

RE: J0425-1939  
Lot 20 Turlington Acres

Trenco  
818 Soundside Rd  
Edenton, NC 27932

**Site Information:**

Customer: Project Name: J0425-1939  
Lot/Block: Model:  
Address: Subdivision:  
City: State:

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.6  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal#     | Truss Name | Date     |
|-----|-----------|------------|----------|
| 1   | I72471993 | A01        | 4/2/2025 |
| 2   | I72471994 | A02        | 4/2/2025 |
| 3   | I72471995 | A03        | 4/2/2025 |
| 4   | I72471996 | A04        | 4/2/2025 |
| 5   | I72471997 | A05        | 4/2/2025 |
| 6   | I72471998 | A06        | 4/2/2025 |
| 7   | I72471999 | A07        | 4/2/2025 |
| 8   | I72472000 | A08        | 4/2/2025 |
| 9   | I72472001 | A09        | 4/2/2025 |
| 10  | I72472002 | A10        | 4/2/2025 |
| 11  | I72472003 | B01        | 4/2/2025 |
| 12  | I72472004 | B02        | 4/2/2025 |
| 13  | I72472005 | B03        | 4/2/2025 |
| 14  | I72472006 | C01        | 4/2/2025 |
| 15  | I72472007 | C02        | 4/2/2025 |
| 16  | I72472008 | M01        | 4/2/2025 |
| 17  | I72472009 | M02        | 4/2/2025 |
| 18  | I72472010 | M03        | 4/2/2025 |
| 19  | I72472011 | P01        | 4/2/2025 |
| 20  | I72472012 | P02        | 4/2/2025 |

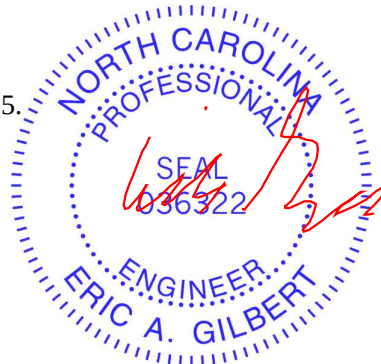
The truss drawing(s) referenced above have been prepared by  
Truss Engineering Co. under my direct supervision  
based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



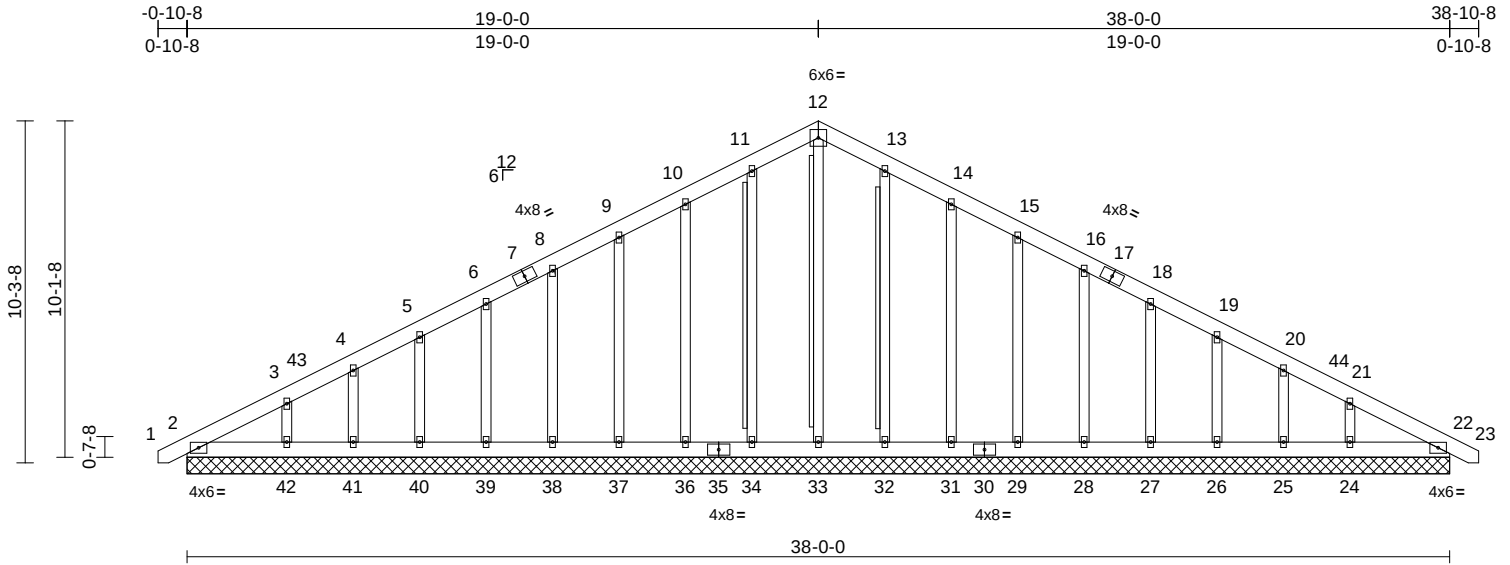
April 02, 2025

|            |       |                        |     |     |                          |           |
|------------|-------|------------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type             | Qty | Ply | Lot 20 Turlington Acres  | 172471993 |
| J0425-1939 | A01   | Common Supported Gable | 1   | 1   | Job Reference (optional) |           |

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:69.3

| Loading                 | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in       | (loc) | l/defl | L/d | PLATES | GRIP    |
|-------------------------|-------|-----------------|-----------------|----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof)             | 20.0  | Plate Grip DOL  | 1.15            | TC       | 0.05 | Vert(LL) | n/a   | -      | 999 | MT20   | 244/190 |
| TCDL                    | 10.0  | Lumber DOL      | 1.15            | BC       | 0.03 | Vert(CT) | n/a   | -      | 999 |        |         |
| BCLL                    | 0.0*  | Rep Stress Incr | YES             | WB       | 0.12 | Horz(CT) | 0.01  | 22     | n/a |        |         |
| BCDL                    | 10.0  | Code            | IRC2021/TPI2014 | Matrix-S |      |          |       |        |     |        |         |
| Weight: 319 lb FT = 25% |       |                 |                 |          |      |          |       |        |     |        |         |

#### LUMBER

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2 \*Except\* 0-0,0-0,0-0:2x4 SPF No.2(flat)

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.  
WEBS T-Brace: 2x4 SPF No.2 - 12-33, 11-34, 13-32  
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.  
Brace must cover 90% of web length.

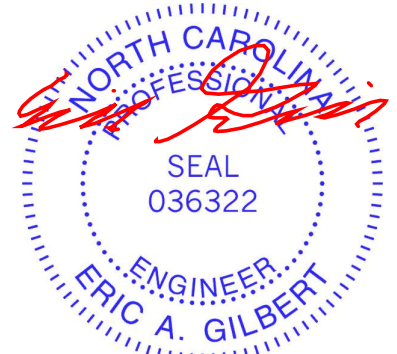
REACTIONS (size) 2=38-0-0, 22=38-0-0, 24=38-0-0, 25=38-0-0, 26=38-0-0, 27=38-0-0, 28=38-0-0, 29=38-0-0, 31=38-0-0, 32=38-0-0, 33=38-0-0, 34=38-0-0, 36=38-0-0, 37=38-0-0, 38=38-0-0, 39=38-0-0, 40=38-0-0, 41=38-0-0, 42=38-0-0  
Max Horiz 2=128 (LC 11)  
Max Uplift 2=-13 (LC 8), 24=-55 (LC 13), 25=-29 (LC 13), 26=-34 (LC 13), 27=-34 (LC 13), 28=-33 (LC 13), 29=-34 (LC 13), 31=-42 (LC 13), 32=-10 (LC 13), 34=-16 (LC 12), 36=-40 (LC 12), 37=-34 (LC 12), 38=-33 (LC 12), 39=-34 (LC 12), 40=-34 (LC 12), 41=-29 (LC 12), 42=-56 (LC 12)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/13, 2-3=-186/92, 3-4=-115/76, 4-5=-94/76, 5-6=-86/87, 6-8=-78/132, 8-9=-73/189, 9-10=-93/248, 10-11=-116/310, 11-12=-130/350, 12-13=-130/350, 13-14=-116/310, 14-15=-93/248, 15-16=-73/189, 16-18=-53/132, 18-19=-48/74, 19-20=-55/24, 20-21=-74/24, 21-22=-164/63, 22-23=0/13  
BOT CHORD 2-42=-55/216, 41-42=-55/216, 40-41=-55/216, 39-40=-55/216, 38-39=-55/216, 37-38=-55/216, 36-37=-55/216, 34-36=-55/216, 33-34=-55/216, 32-33=-55/216, 31-32=-55/216, 29-31=-55/216, 28-29=-55/216, 27-28=-55/216, 26-27=-55/216, 25-26=-55/216, 24-25=-55/216, 22-24=-55/216  
WEBS 12-33=-182/27, 11-34=-122/64, 10-36=-122/119, 9-37=-120/106, 8-38=-120/105, 6-39=-120/105, 5-40=-122/107, 4-41=-106/94, 3-42=-167/218, 13-32=-122/64, 14-31=-122/119, 15-29=-120/106, 16-28=-120/105, 18-27=-120/105, 19-26=-122/107, 20-25=-106/94, 21-24=-167/217

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 38-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



April 2, 2025

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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Edenton, NC 27932

|            |       |                        |     |     |                          |
|------------|-------|------------------------|-----|-----|--------------------------|
| Job        | Truss | Truss Type             | Qty | Ply | Lot 20 Turlington Acres  |
| J0425-1939 | A01   | Common Supported Gable | 1   | 1   | I72471993                |
|            |       |                        |     |     | Job Reference (optional) |

- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 34, 40 lb uplift at joint 36, 34 lb uplift at joint 37, 33 lb uplift at joint 38, 34 lb uplift at joint 39, 34 lb uplift at joint 40, 29 lb uplift at joint 41, 56 lb uplift at joint 42, 10 lb uplift at joint 32, 42 lb uplift at joint 31, 34 lb uplift at joint 29, 33 lb uplift at joint 28, 34 lb uplift at joint 27, 34 lb uplift at joint 26, 29 lb uplift at joint 25, 55 lb uplift at joint 24 and 13 lb uplift at joint 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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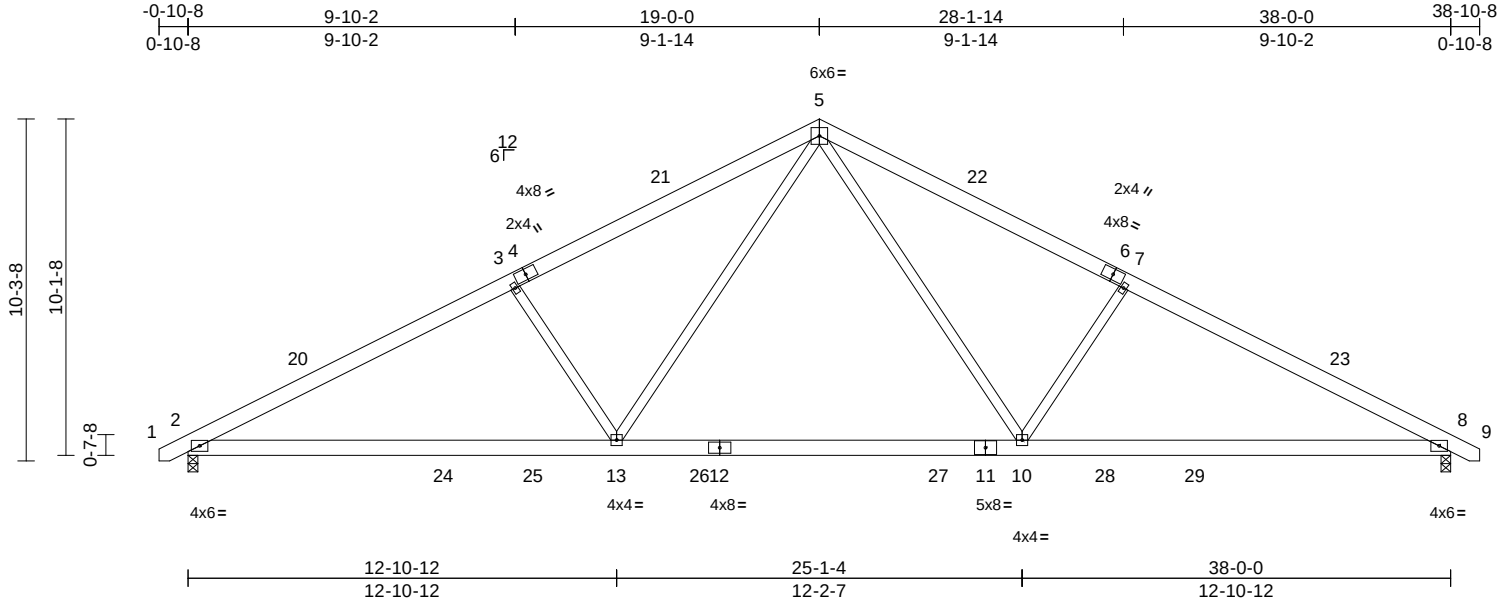
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|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  | 172471994 |
| J0425-1939 | A02   | Common     | 4   | 1   | Job Reference (optional) |           |

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Page: 1



|                |       |                 |                 |            |      |             |       |       |        |     |                |             |
|----------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|----------------|-------------|
| <b>Loading</b> | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | l/defl | L/d | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL (roof)    | 20.0  | Plate Grip DOL  | 1.15            | TC         | 0.32 | Vert(LL)    | -0.21 | 10-13 | >999   | 360 | MT20           | 244/190     |
| TCDL           | 10.0  | Lumber DOL      | 1.15            | BC         | 0.66 | Vert(CT)    | -0.34 | 13-19 | >999   | 240 |                |             |
| BCLL           | 0.0*  | Rep Stress Incr | YES             | WB         | 0.34 | Horz(CT)    | 0.07  | 8     | n/a    | n/a |                |             |
| BCDL           | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS  |      | Wind(LL)    | 0.08  | 13-19 | >999   | 240 | Weight: 242 lb | FT = 25%    |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

#### REACTIONS

(size) 2=0-3-8, 8=0-3-8  
Max Horiz 2=-128 (LC 10)  
Max Uplift 2=-102 (LC 12), 8=-102 (LC 13)  
Max Grav 2=1745 (LC 2), 8=1745 (LC 2)

#### FORCES

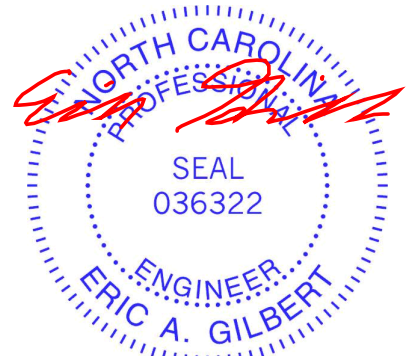
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/19, 2-3=-2936/568, 3-5=-2705/587,  
5-7=-2705/587, 7-8=-2936/568, 8-9=0/19  
BOT CHORD 2-13=-376/2624, 10-13=-128/1731,  
8-10=-373/2576  
WEBS 5-10=-144/1156, 7-10=-578/318,  
5-13=-143/1156, 3-13=-578/318

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0,  
Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to  
38-8-10 zone; C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.1 crushing  
capacity of 565 psi.

- 6) One RT3A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 8 and 2.  
This connection is for uplift only and does not consider  
lateral forces.
- 7) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



April 2, 2025

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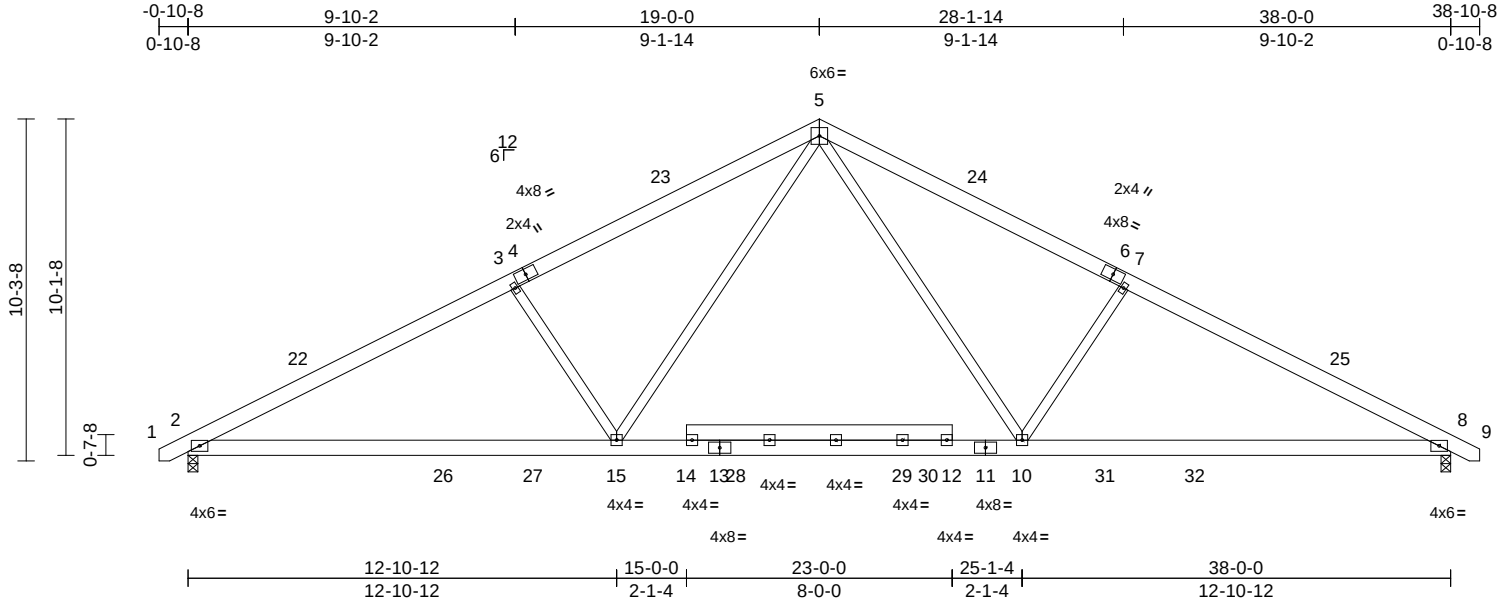
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|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | A03   | Common     | 2   | 1   | Job Reference (optional) | I72471995 |

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Page: 1

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Scale = 1:69.3

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.32 | Vert(LL) | -0.19 | 15-18 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.71 | Vert(CT) | -0.35 | 15-18 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.34 | Horz(CT) | 0.07  | 8     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.08  | 15-18 | >999   | 240 | Weight: 261 lb | FT = 25% |

#### LUMBER

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* 14-12:2x6 SP No.1

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

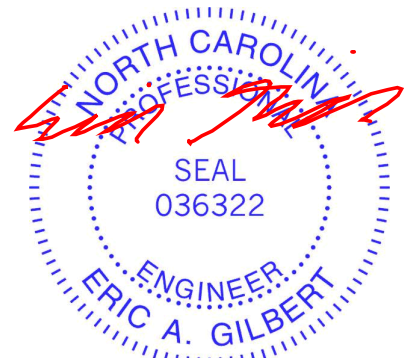
**REACTIONS** (size) 2=0-3-8, 8=0-3-8  
Max Horiz 2=-128 (LC 10)  
Max Uplift 2=-2 (LC 12), 8=-2 (LC 13)  
Max Grav 2=1838 (LC 2), 8=1839 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/19, 2-3=-3135/344, 3-5=-2904/363, 5-7=-2906/363, 7-8=-3137/344, 8-9=0/19  
BOT CHORD 2-15=-178/2801, 10-15=0/1855, 8-10=-175/2755  
WEBS 5-10=-27/1262, 7-10=-571/325, 5-15=-27/1259, 3-15=-571/325

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 5-0-0 apart.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
  - One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard



April 2, 2025

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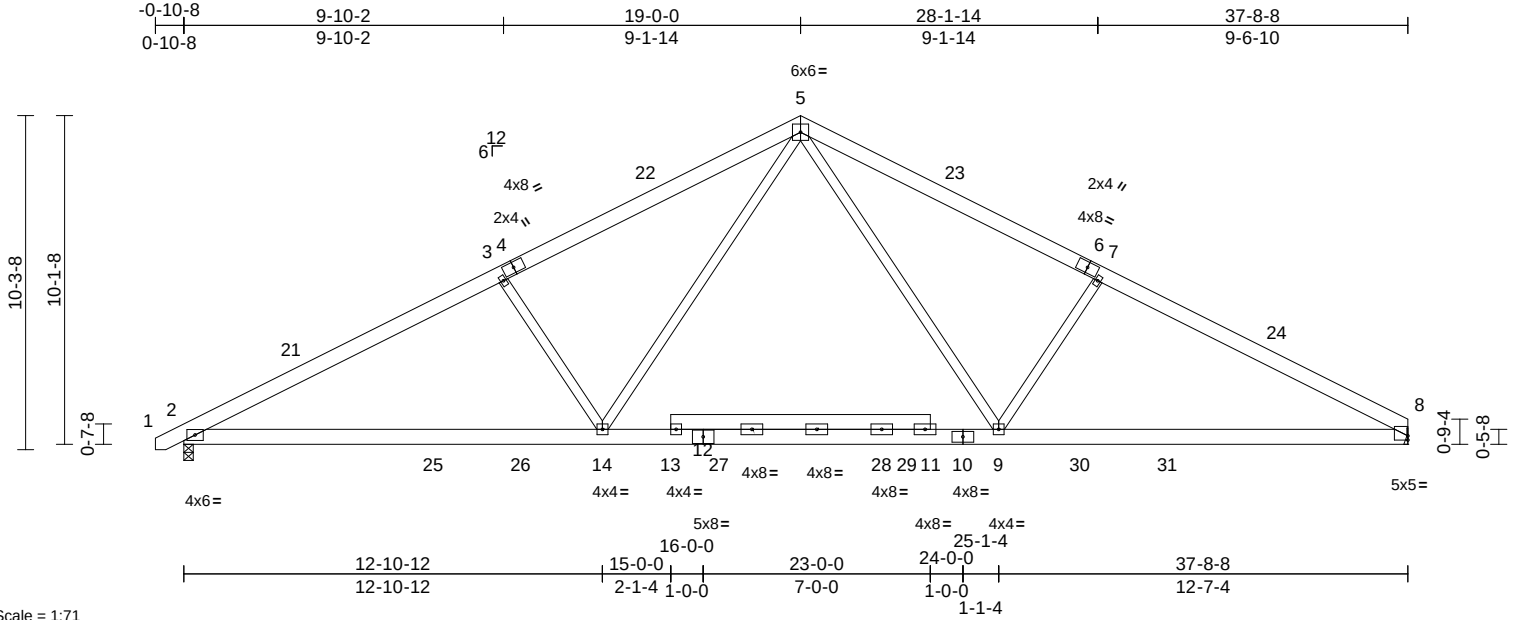
|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | A04   | Common     | 1   | 1   | Job Reference (optional) | I72471996 |

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Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41

Page: 1

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Scale = 1:71

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.31 | Vert(LL) | -0.18 | 14-17 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.74 | Vert(CT) | -0.34 | 14-17 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.34 | Horz(CT) | 0.07  | 8     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.07  | 14-17 | >999   | 240 | Weight: 258 lb | FT = 25% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

#### REACTIONS

(size) 2=0-3-8, 8= Mechanical  
Max Horiz 2=131 (LC 9)  
Max Uplift 2=-2 (LC 12)  
Max Grav 2=1825 (LC 2), 8=1792 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-3111/342, 3-5=-2881/360,  
5-7=-2828/361, 7-8=-3074/343  
BOT CHORD 2-14=-207/2774, 9-14=-48/1831,  
8-9=-186/2664  
WEBS 5-14=-27/1268, 3-14=-568/325,  
5-9=-20/1187, 7-9=-535/321

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0,  
Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to  
37-8-8 zone;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 19-0-0  
from left end, supported at two points, 5-0-0 apart.
- 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  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.

- 6) Bearings are assumed to be: Joint 2 SP No.1 crushing  
capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) One RT3A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 2. This  
connection is for uplift only and does not consider lateral  
forces.
- 9) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



April 2,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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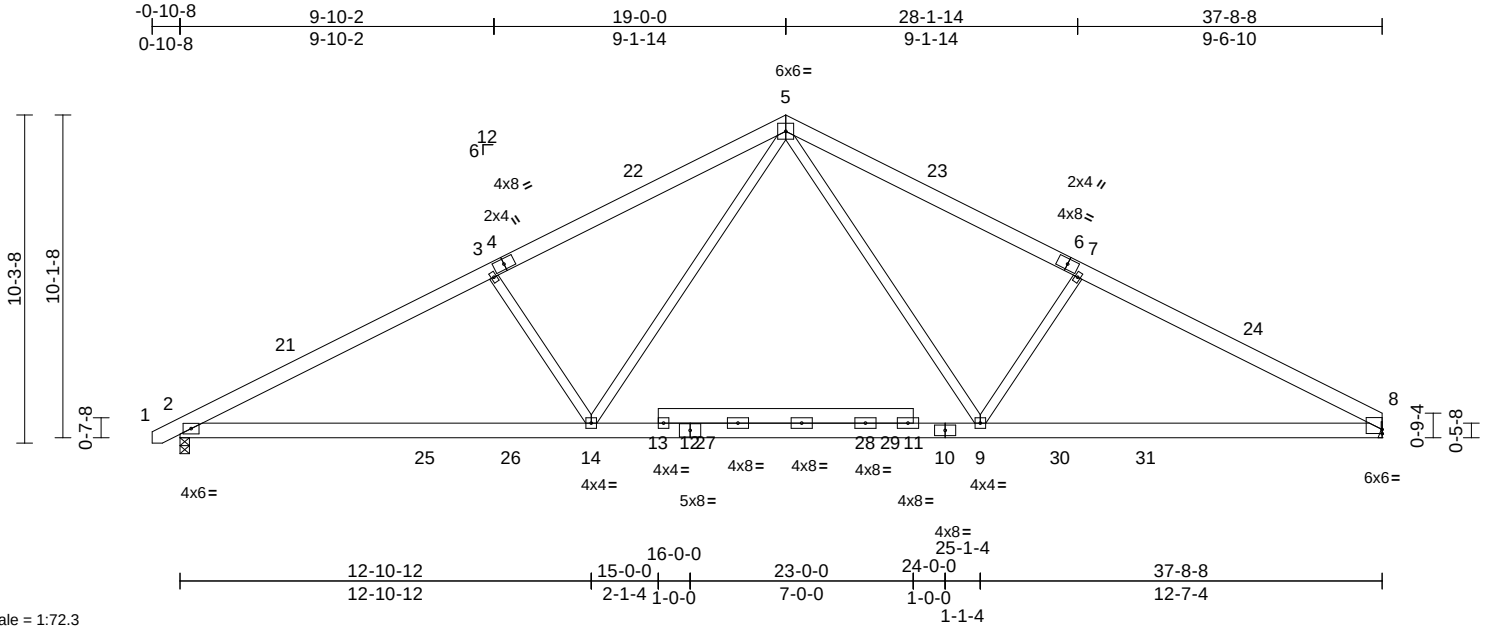


|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | A05   | Common     | 2   | 1   | Job Reference (optional) | I72471997 |

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Page: 1



Scale = 1:72.3

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

| Loading     | (psf) | Spacing         | 2-3-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.50 | Vert(LL) | -0.21 | 14-20 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.98 | Vert(CT) | -0.39 | 14-20 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.38 | Horz(CT) | 0.08  | 8     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-MS |      | Wind(LL) | 0.09  | 14-20 | >999   | 240 | Weight: 258 lb | FT = 25% |

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 2=0-3-8, 8= Mechanical  
Max Horiz 2=148 (LC 9)  
Max Uplift 2=-15 (LC 12)  
Max Grav 2=2040 (LC 2), 8=2003 (LC 2)

#### FORCES

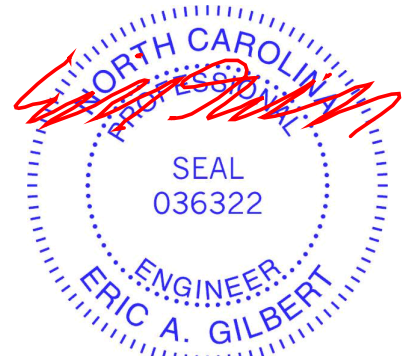
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/22, 2-3=-3477/415, 3-5=-3218/435,  
5-7=-3158/436, 7-8=-3436/416  
BOT CHORD 2-14=-260/3100, 9-14=-64/2037,  
8-9=-236/2979  
WEBS 5-14=-52/1425, 3-14=-646/371,  
5-9=-44/1332, 7-9=-613/367

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0,  
Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to  
37-8-8 zone;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 200.0lb AC unit load placed on the bottom chord, 19-0-0  
from left end, supported at two points, 5-0-0 apart.
- 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  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1 crushing  
capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- One RT3A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 2. This  
connection is for uplift only and does not consider lateral  
forces.

**LOAD CASE(S)** Standard



April 2, 2025

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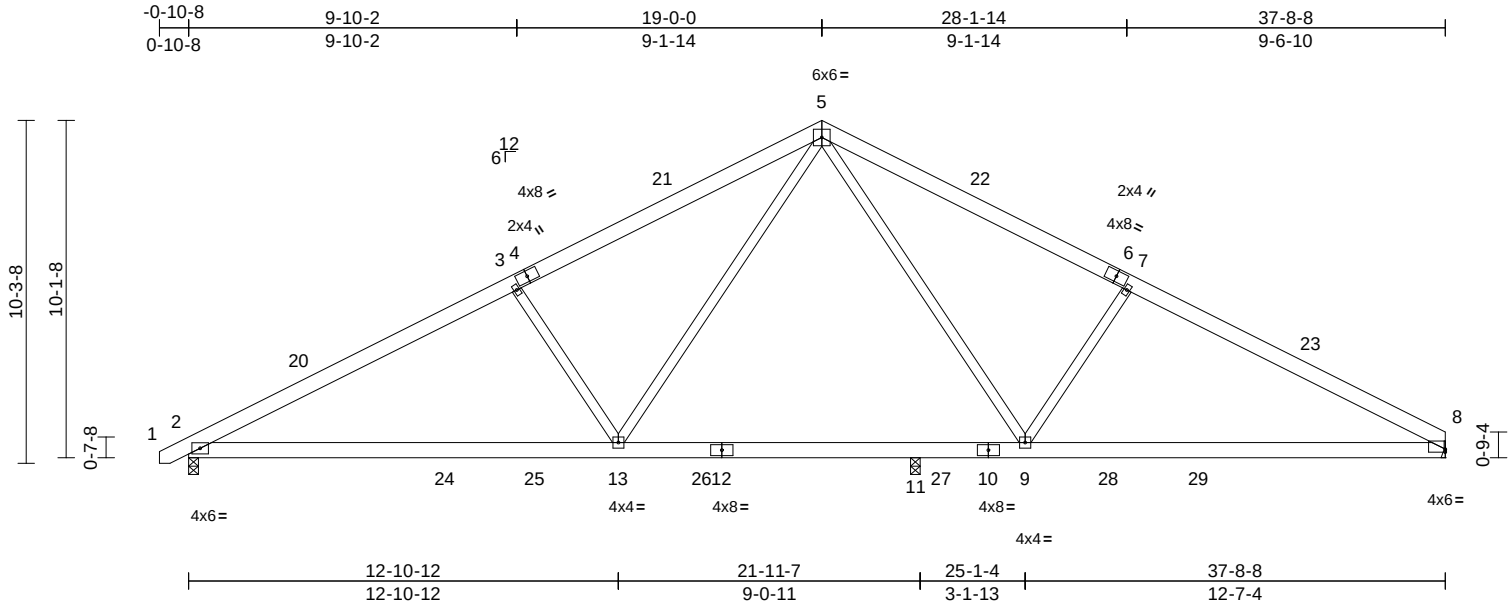
818 Soundside Road  
Edenton, NC 27932

|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | A06   | Common     | 1   | 1   | Job Reference (optional) | I72471998 |

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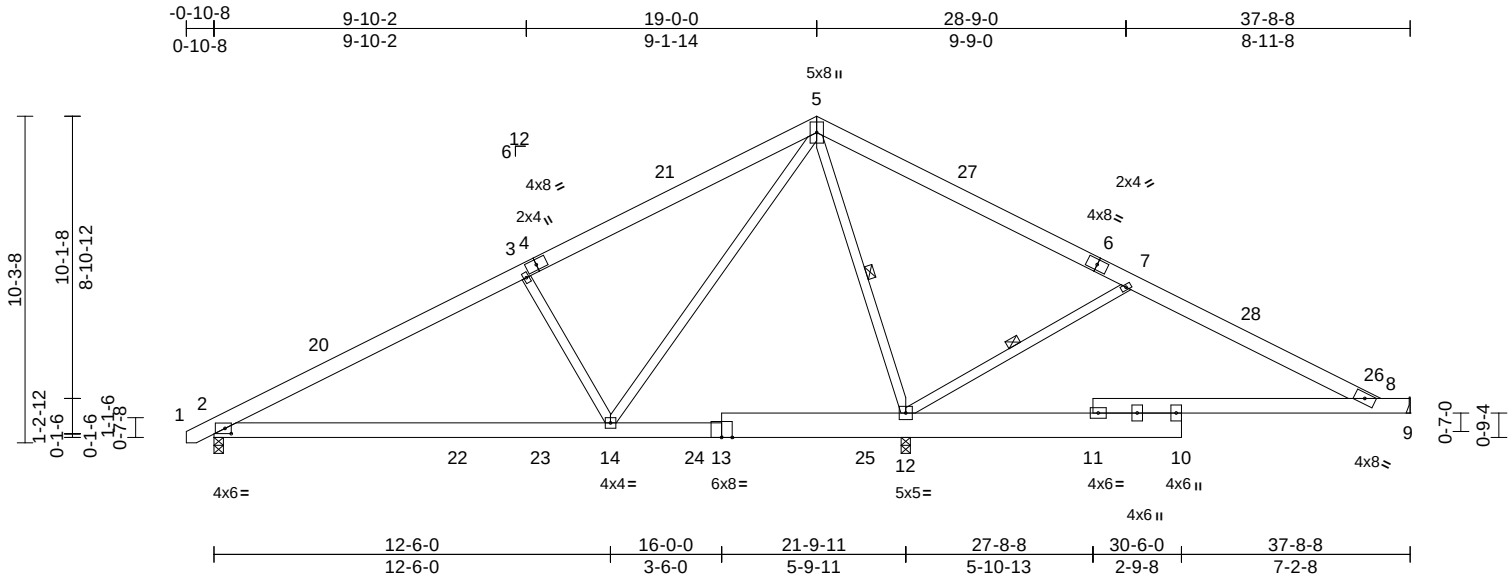


|            |       |              |     |     |                          |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type   | Qty | Ply | Lot 20 Turlington Acres  | I72471999 |
| J0425-1939 | A07   | Roof Special | 6   | 1   | Job Reference (optional) |           |

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Page: 1



Scale = 1:72.6

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.41 | Vert(LL) | -0.16 | 14-17 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.43 | Vert(CT) | -0.32 | 14-17 | >816   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.71 | Horz(CT) | 0.01  | 9     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.07  | 14-17 | >999   | 240 | Weight: 267 lb | FT = 25% |

#### LUMBER

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\* 13-10:2x10 SP No.1  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  
WEBS 1 Row at midpt 5-12, 7-12

**REACTIONS** (size) 2=0-3-8, 9= Mechanical, 12=0-3-8  
Max Horiz 2=136 (LC 9)  
Max Uplift 2=-104 (LC 12), 9=-41 (LC 13),  
12=-44 (LC 13)  
Max Grav 2=740 (LC 27), 9=265 (LC 26),  
12=2470 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/19, 2-3=-811/261, 3-5=-568/299,  
5-7=-31/1020, 7-8=-66/485

BOT CHORD 2-14=-204/669, 12-14=-402/154,  
8-12=-373/0, 8-9=0/0

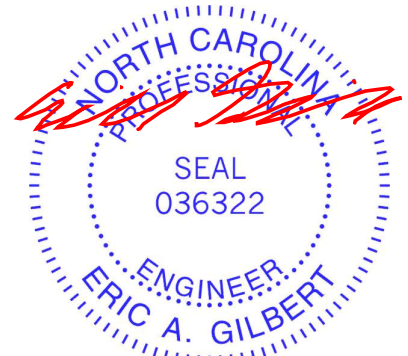
WEBS 3-14=-599/317, 5-14=-199/1090,  
5-12=-1649/363, 7-12=-718/358

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) 0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0,  
Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to  
36-8-14 zone; C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 12 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



April 2, 2025

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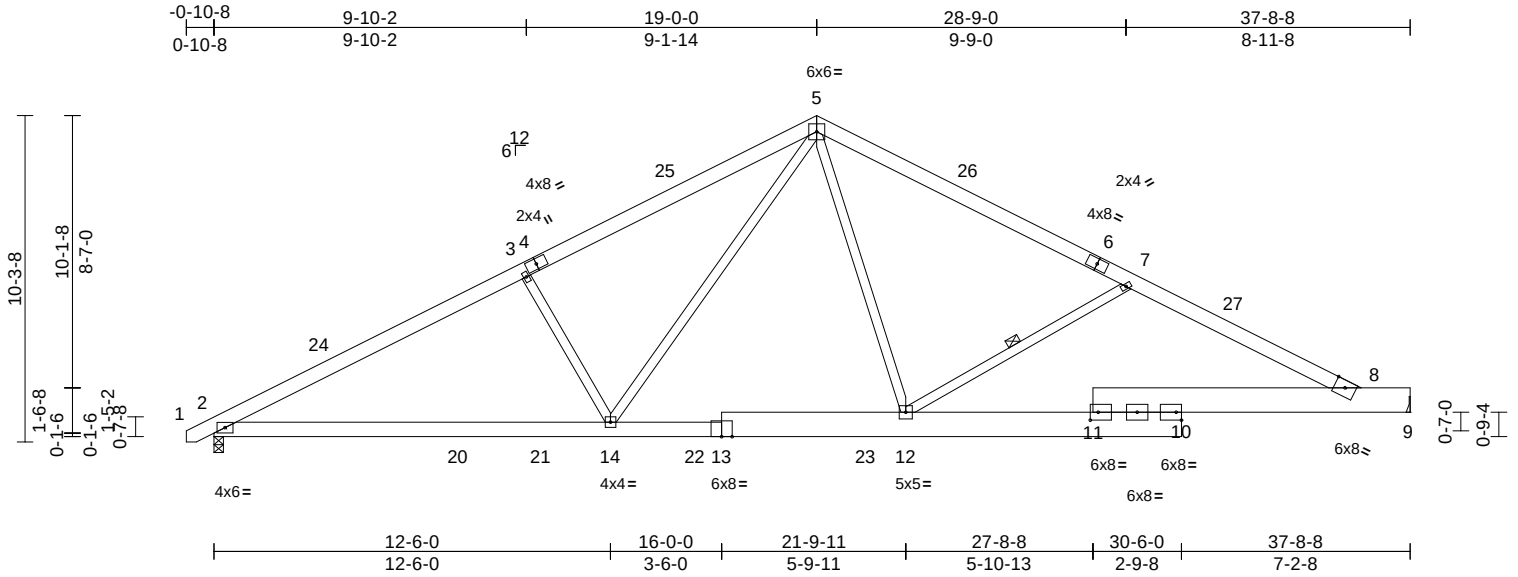
818 Soundside Road  
Edenton, NC 27932

|            |       |              |     |     |                          |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type   | Qty | Ply | Lot 20 Turlington Acres  | 172472000 |
| J0425-1939 | A08   | Roof Special | 2   | 1   | Job Reference (optional) |           |

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Page: 1



Scale = 1:72.6

Plate Offsets (X, Y): [11:0-3-0,0-3-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.50 | Vert(LL) | -0.21 | 12-18 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.60 | Vert(CT) | -0.40 | 12-18 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.43 | Horz(CT) | 0.06  | 9     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.11  | 12-18 | >999   | 240 | Weight: 281 lb | FT = 25% |

#### LUMBER

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP 2400F 2.0E \*Except\* 13-2:2x6 SP No.1, 13-10:2x10 SP No.1  
WEBS 2x4 SP No.2

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.  
WEBS 1 Row at midpt 7-12

**REACTIONS** (size) 2=0-3-8, 9= Mechanical  
Max Horiz 2=139 (LC 12)  
Max Uplift 2=-101 (LC 12), 9=-52 (LC 13)  
Max Grav 2=1708 (LC 2), 9=1625 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/19, 2-3=-2839/561, 3-5=-2637/599, 5-7=-2304/509, 7-8=-3162/632  
BOT CHORD 2-14=-426/2531, 12-14=-174/1710, 8-12=-473/2494, 8-9=0/0  
WEBS 3-14=-578/312, 7-12=-721/362, 5-12=-39/899, 5-14=-180/1033

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 36-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



April 2,2025

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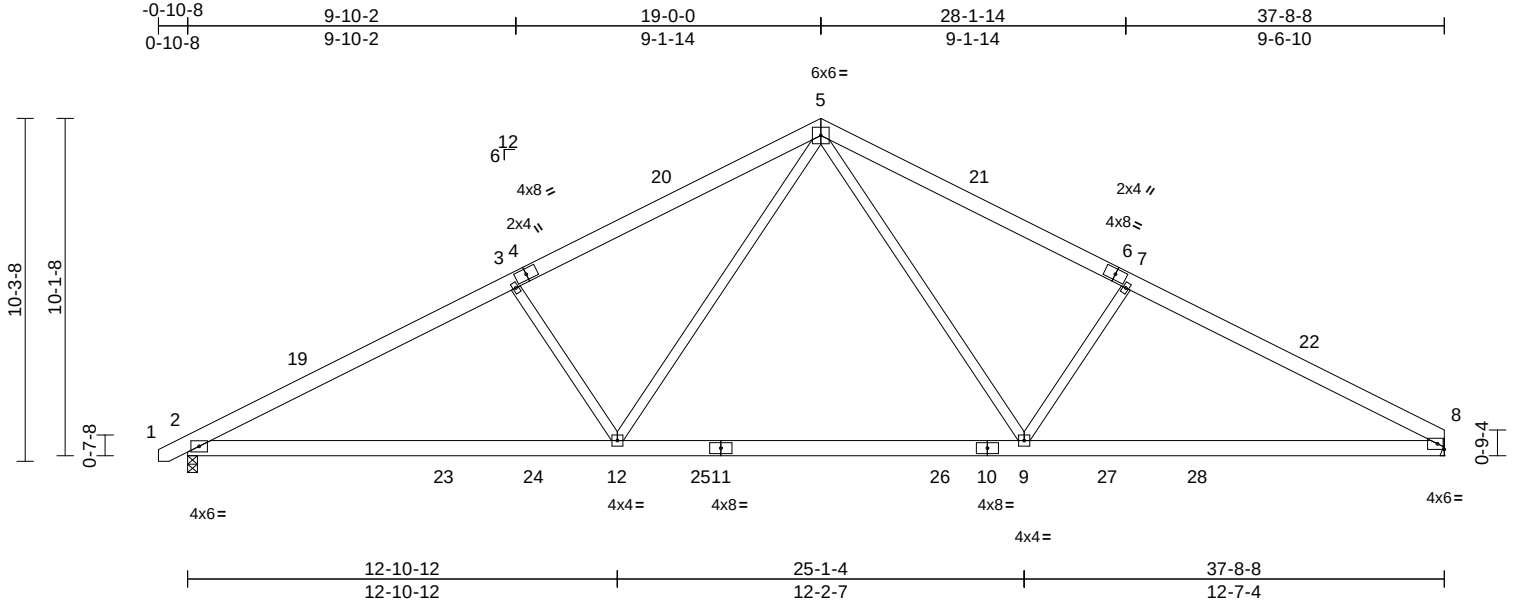
|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | A09   | Common     | 1   | 1   | Job Reference (optional) | I72472001 |

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Scale = 1:69.1

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.39 | Vert(LL) | -0.21 | 9-12  | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.71 | Vert(CT) | -0.35 | 12-15 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.34 | Horz(CT) | 0.07  | 8     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-MS |      | Wind(LL) | 0.08  | 12-15 | >999   | 240 | Weight: 239 lb | FT = 25% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size) 2=0-3-8, 8= Mechanical  
Max Horiz 2=131 (LC 9)  
Max Uplift 2=-102 (LC 12), 8=-90 (LC 13)  
Max Grav 2=1732 (LC 2), 8=1697 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/19, 2-3=-2914/566, 3-5=-2683/585, 5-7=-2633/583, 7-8=-2881/564  
BOT CHORD 2-12=-406/2599, 9-12=-151/1695, 8-9=-382/2494  
WEBS 5-12=-151/1172, 3-12=-581/325, 5-9=-139/1095, 7-9=-553/319

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 37-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 2, 2025

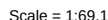
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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A MiTek Affiliate

818 Soundside Road  
Edenton, NC 27932

Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 Page: 1  
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|                         |                                                                                                                                                                                                                                                                              |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>           |                                                                                                                                                                                                                                                                              | Max Grav      | 2=158 (LC 1), 22=102 (LC 22), 23=223 (LC 26), 24=141 (LC 26), 25=164 (LC 1), 26=159 (LC 26), 27=160 (LC 1), 28=160 (LC 1), 30=162 (LC 26), 31=162 (LC 1), 32=160 (LC 22), 33=162 (LC 25), 35=162 (LC 25), 36=160 (LC 1), 37=160 (LC 1), 38=159 (LC 25), 39=165 (LC 1), 40=136 (LC 25), 41=235 (LC 25) | 1) Unbalanced roof live loads have been considered for this design.<br>2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-8-10 to 3-8-3, Exterior(2N) 3-8-3 to 19-0-0, Corner(3R) 19-0-0 to 23-4-13, Exterior(2N) 23-4-13 to 37-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60                           |
| TOP CHORD               | 2x6 SP No.1                                                                                                                                                                                                                                                                  |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| BOT CHORD               | 2x6 SP No.1                                                                                                                                                                                                                                                                  |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OTHERS                  | 2x4 SP No.2 *Except* 0-0,0-0,0-0:2x4 SPF No.2(flat)                                                                                                                                                                                                                          |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>BRACING</b>          |                                                                                                                                                                                                                                                                              | <b>FORCES</b> | (lb) - Maximum Compression/Maximum Tension                                                                                                                                                                                                                                                            | 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.                                                                                                                                                                                                                                             |
| TOP CHORD               | Structural wood sheathing directly applied or 6-0-0 oc purlins.                                                                                                                                                                                                              | TOP CHORD     | 1-2=0/13, 2-3=-191/90, 3-4=-117/74, 4-5=-94/74, 5-6=-87/85, 6-8=-78/129, 8-9=-72/187, 9-10=-92/245, 10-11=-115/308, 11-12=-129/348, 12-13=-129/348, 13-14=-115/308, 14-15=-92/245, 15-16=-72/187, 16-18=-52/129, 18-19=-49/72, 19-20=-57/23, 20-21=-76/25, 21-22=-189/64                              | 4) All plates are 2x4 MT20 unless otherwise indicated.<br>5) Gable requires continuous bottom chord bearing.<br>6) Gable studs spaced at 2-0-0 oc.<br>7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.<br>8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. |
| BOT CHORD               | Structural wood sheathing directly applied or 10-0-0 oc bracing.                                                                                                                                                                                                             | BOT CHORD     | 2-41=-54/211, 40-41=-54/211, 39-40=-54/211, 38-39=-54/211, 37-38=-54/211, 36-37=-54/211, 35-36=-54/211, 33-35=-54/211, 32-33=-54/211, 31-32=-54/211, 30-31=-54/211, 28-30=-54/211, 27-28=-54/211, 26-27=-54/211, 25-26=-54/211, 24-25=-54/211, 23-24=-54/211, 22-23=-54/211                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| WEBS                    | T-Brace: 2x4 SPF No.2 - 12-32, 11-33, 13-31<br><br>Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.<br>Brace must cover 90% of web length.                                                               |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>REACTIONS</b> (size) | 2=37-8-8, 22=37-8-8, 23=37-8-8, 24=37-8-8, 25=37-8-8, 26=37-8-8, 27=37-8-8, 28=37-8-8, 30=37-8-8, 31=37-8-8, 32=37-8-8, 33=37-8-8, 35=37-8-8, 36=37-8-8, 37=37-8-8, 38=37-8-8, 39=37-8-8, 40=37-8-8, 41=37-8-8                                                               |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max Horiz               | 2=129 (LC 9)                                                                                                                                                                                                                                                                 |               |                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Max Uplift              | 2=-13 (LC 8), 23=-61 (LC 13), 24=-29 (LC 13), 25=-34 (LC 13), 26=-34 (LC 13), 27=-33 (LC 13), 28=-34 (LC 13), 30=-42 (LC 13), 31=-10 (LC 13), 33=-16 (LC 12), 35=-40 (LC 12), 36=-34 (LC 12), 37=-33 (LC 12), 38=-34 (LC 12), 39=-34 (LC 12), 40=-29 (LC 12), 41=-56 (LC 12) | WEBS          | 12-32=-180/26, 11-33=-122/65, 10-35=-122/119, 9-36=-120/106, 8-37=-120/105, 6-38=-120/105, 5-39=-122/107, 4-40=-106/94, 3-41=-167/218, 13-31=-122/65, 14-30=-122/119, 15-28=-120/106, 16-27=-120/105, 18-26=-120/105, 19-25=-122/107, 20-24=-109/109, 21-23=-160/237                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

April 2, 2025

Continued on page 2

 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

**WARNING – Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-17-19 (Rev. 1/2/2025) BEFORE USE.**  
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|            |       |                        |     |     |                          |
|------------|-------|------------------------|-----|-----|--------------------------|
| Job        | Truss | Truss Type             | Qty | Ply | Lot 20 Turlington Acres  |
| J0425-1939 | A10   | Common Supported Gable | 1   | 1   | I72472002                |
|            |       |                        |     |     | Job Reference (optional) |

- 9) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- 10) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23, 2, and 22. This connection is for uplift only and does not consider lateral forces.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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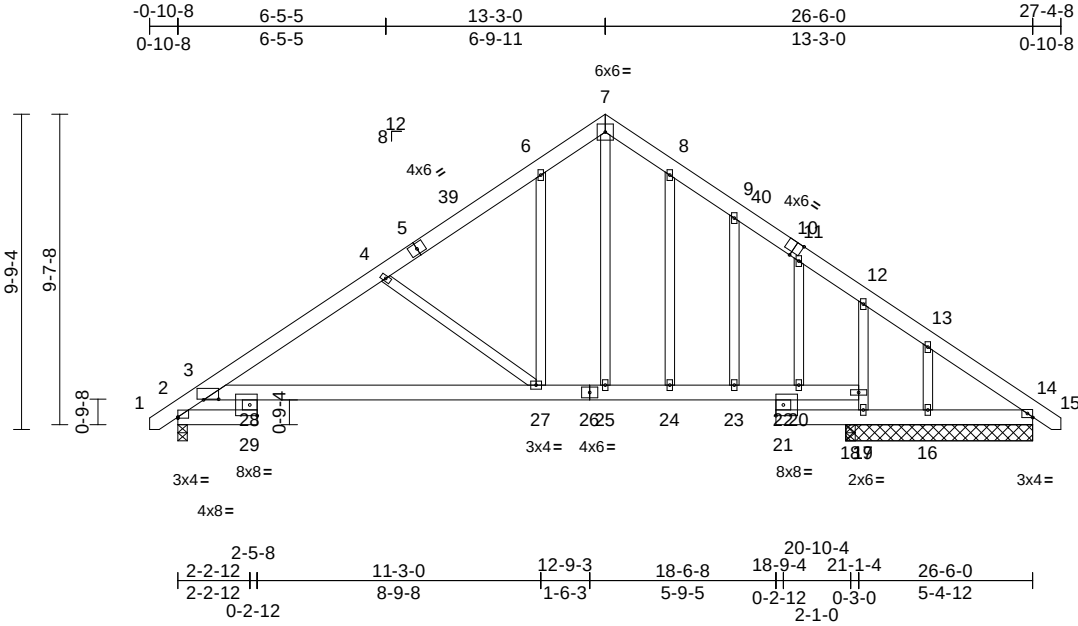
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Edenton, NC 27932

|            |       |                         |     |     |                          |           |
|------------|-------|-------------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type              | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | B01   | Common Structural Gable | 1   | 1   | Job Reference (optional) | I72472003 |

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Page: 1



Scale = 1:71.4

Plate Offsets (X, Y): [2:Edge,0-0-7], [3:0-5-10,0-0-4], [10:0-2-13,Edge]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.45 | Vert(LL) | -0.13 | 27-28 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.38 | Vert(CT) | -0.31 | 27-28 | >797   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.86 | Horz(CT) | 0.14  | 14    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.12  | 27-28 | >999   | 240 | Weight: 215 lb | FT = 25% |

#### LUMBER

|           |                                        |
|-----------|----------------------------------------|
| TOP CHORD | 2x6 SP No.1                            |
| BOT CHORD | 2x6 SP No.1                            |
| WEBS      | 2x6 SP No.1 *Except* 27-4:2x4 SP No.2  |
| OTHERS    | 2x4 SP No.2 *Except* 17-12:2x4 SP No.1 |

#### BRACING

|           |                                             |
|-----------|---------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied. |
| BOT CHORD | Structural wood sheathing directly applied. |

|           |            |                                                                                                  |
|-----------|------------|--------------------------------------------------------------------------------------------------|
| REACTIONS | (size)     | 2=0-3-8, 14=5-9-8, 16=5-9-8,<br>17=5-9-8, 18=0-3-8, 36=5-9-8                                     |
|           | Max Horiz  | 2=223 (LC 11)                                                                                    |
|           | Max Uplift | 2=-63 (LC 12), 16=-80 (LC 13),<br>17=-665 (LC 26), 18=-179 (LC 13)                               |
|           | Max Grav   | 2=964 (LC 1), 14=589 (LC 1),<br>16=140 (LC 20), 17=87 (LC 13),<br>18=1221 (LC 20), 36=589 (LC 1) |

#### FORCES

(lb) - Maximum Compression/Maximum Tension

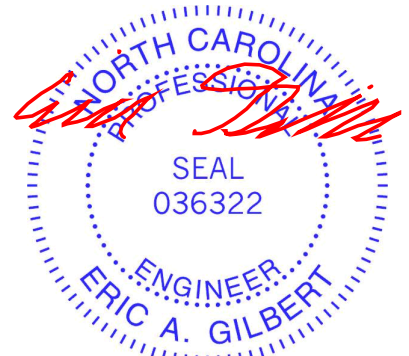
|           |                                                                                                                                                                                          |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TOP CHORD | 1-2=0/24, 2-3=-584/135, 3-4=-1367/271,<br>4-6=-1004/222, 6-7=-659/272, 7-8=-779/292,<br>8-9=-842/252, 9-11=-867/200,<br>11-12=-898/159, 12-13=-675/93,<br>13-14=-748/31, 14-15=0/24      |
| BOT CHORD | 2-29=-141/337, 3-28=-143/1277,<br>27-28=-125/1277, 25-27=0/741,<br>24-25=0/741, 23-24=0/741, 22-23=0/741,<br>20-22=0/741, 19-20=0/741, 18-21=0/0,<br>17-18=0/0, 16-17=0/590, 14-16=0/590 |
| WEBS      | 7-25=-161/303, 6-27=0/421, 8-24=-20/60,<br>9-23=-92/79, 11-20=-70/51, 17-19=-362/143,<br>12-19=-360/128, 13-16=-67/88,<br>4-27=-664/239, 21-22=-158/57,<br>28-29=-20/175                 |

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-8-12 to 3-8-1, Interior (1) 3-8-1 to 13-3-0,  
Exterior(2R) 13-3-0 to 17-7-13, Interior (1) 17-7-13 to  
27-2-12 zone;C-C for members and forces & MWFRS  
for reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 8) All bearings are assumed to be SP No.1 crushing  
capacity of 565 psi.
- 9) One RT3A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 2, 14, 16,  
and 18. This connection is for uplift only and does not  
consider lateral forces.
- 10) One RT16A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 17. This  
connection is for uplift only and does not consider lateral  
forces.
- 11) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



April 2,2025

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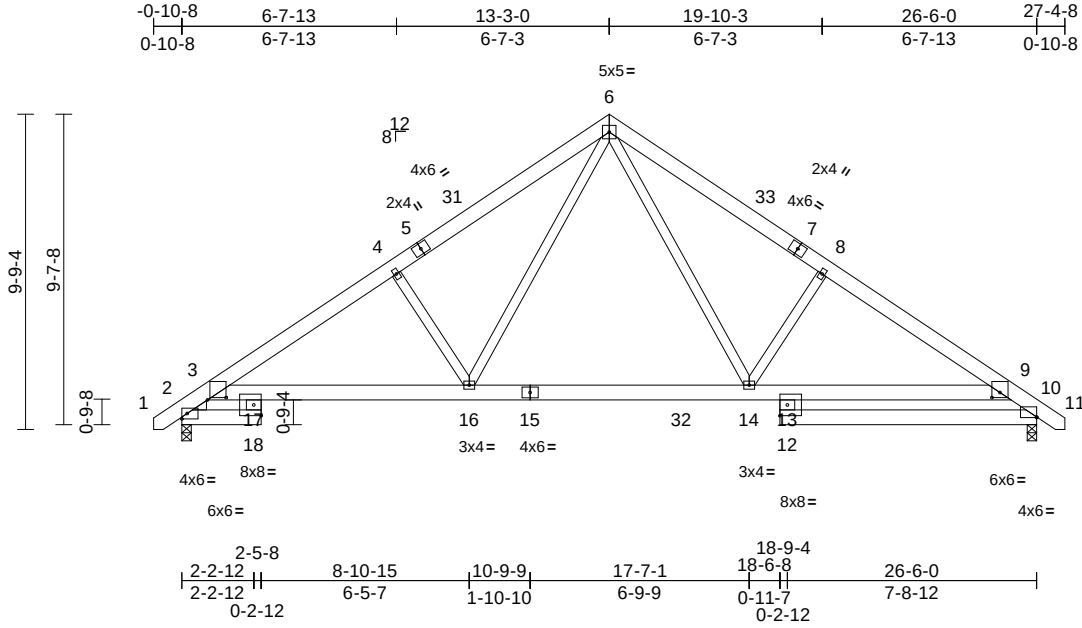


|            |       |              |     |     |                          |           |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type   | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | B02   | Roof Special | 1   | 1   | Job Reference (optional) | I72472004 |

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Page: 1



Scale = 1:71.4

Plate Offsets (X, Y): [3:0-6-14,0-0-14], [9:0-3-0,0-1-14], [10:Edge,0-0-3]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.49 | Vert(LL) | -0.11 | 12-27 | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.48 | Vert(CT) | -0.20 | 16-17 | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.22 | Horz(CT) | 0.12  | 10    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.07  | 16-17 | >999   | 240 | Weight: 204 lb | FT = 25% |

#### LUMBER

TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\* 12-13,18-17:2x6 SP No.1  
WEDGE Left: 2x4 SP No.3

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

#### REACTIONS

(size) 2=0-3-8, 10=0-3-8  
Max Horiz 2=223 (LC 11)  
Max Uplift 2=-65 (LC 12), 10=-65 (LC 13)  
Max Grav 2=1297 (LC 19), 10=1348 (LC 20)

#### FORCES

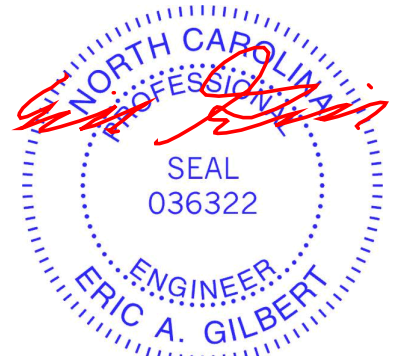
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/24, 2-3=-848/163, 3-4=-1961/340, 4-6=-1839/393, 6-8=-1820/397, 8-9=-1933/344, 9-10=-655/169, 10-11=0/24  
BOT CHORD 2-18=-127/449, 3-17=-179/1797, 16-17=-179/1797, 14-16=0/1077, 13-14=-173/1611, 9-13=-173/1611, 10-12=-79/201  
WEBS 6-16=-137/978, 6-14=-142/986, 4-16=-513/252, 8-14=-463/252, 12-13=0/160, 17-18=-20/261

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-12 to 3-8-1, Interior (1) 3-8-1 to 13-3-0, Exterior(2R) 13-3-0 to 17-7-13, Interior (1) 17-7-13 to 27-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



April 2, 2025

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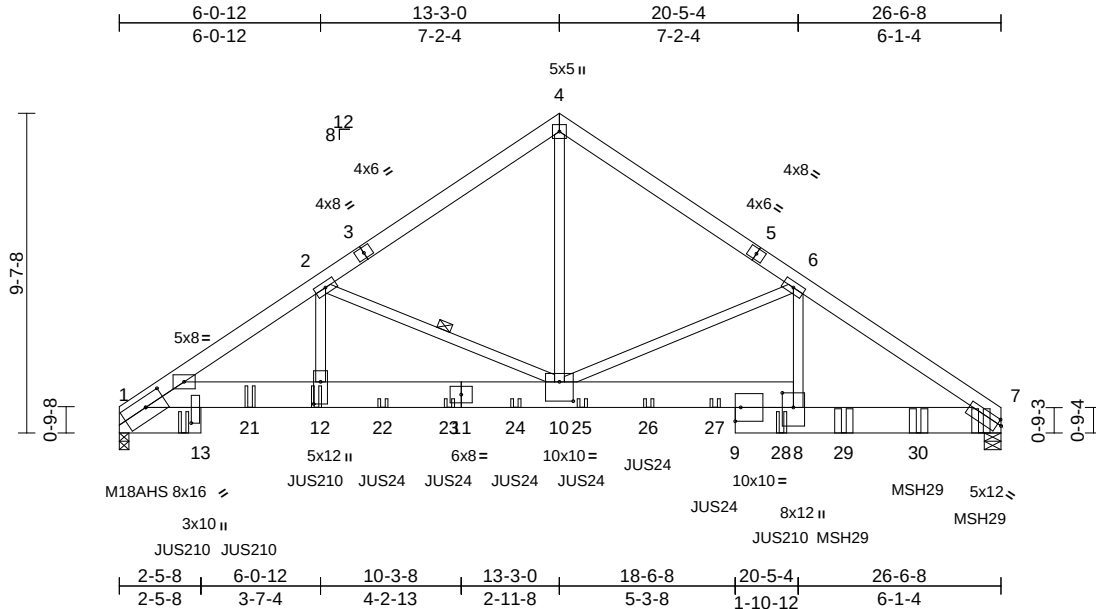
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|            |       |                     |     |     |                          |           |
|------------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type          | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | B03   | Roof Special Girder | 1   | 2   | Job Reference (optional) | I72472005 |

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Page: 1



Scale = 1:69.4

Plate Offsets (X, Y): [1:0-7-3,0-3-8], [1:0-5-11,1-4-7], [7:0-1-6,0-1-13], [8:0-5-4,0-4-0], [10:0-5-0,0-7-0], [12:0-8-0,0-2-8]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP                    |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.52 | Vert(LL) | -0.13 | 8-10   | >999 | 360    | M18AHS 186/179          |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.95 | Vert(CT) | -0.24 | 8-10   | >999 | 240    | MT20 244/190            |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.97 | Horz(CT) | 0.11  | 7      | n/a  | n/a    |                         |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-MS |      | Wind(LL) | 0.08  | 8-10   | >999 | 240    | Weight: 473 lb FT = 25% |

|                  |                                                                            |
|------------------|----------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                            |
| TOP CHORD        | 2x6 SP No.1                                                                |
| BOT CHORD        | 2x10 SP 2400F 2.0E *Except* 9-7:2x10 SP No.1                               |
| WEBS             | 2x4 SP No.2                                                                |
| <b>BRACING</b>   |                                                                            |
| TOP CHORD        | Structural wood sheathing directly applied or 4-7-12 oc purlins.           |
| BOT CHORD        | Structural wood sheathing directly applied or 10-0-0 oc bracing.           |
| WEBS             | 1 Row at midpt 2-10                                                        |
| <b>REACTIONS</b> | (size) 1=0-3-8, 7=0-6-0                                                    |
|                  | Max Horiz 1=-212 (LC 4)                                                    |
|                  | Max Uplift 1=-432 (LC 8)                                                   |
|                  | Max Grav 1=6723 (LC 15), 7=8463 (LC 16)                                    |
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum Tension                                 |
| TOP CHORD        | 1-2=-10391/728, 2-4=-5444/478, 4-6=-5439/488, 6-7=-9877/475                |
| BOT CHORD        | 1-12=-635/8580, 10-12=-635/8580, 8-10=-309/8193, 7-8=-309/8193             |
| WEBS             | 2-12=-176/4009, 6-8=0/3967, 4-10=-399/5504, 6-10=-4296/187, 2-10=-4532/420 |

#### NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 2-12 2x4 - 1 row at 0-4-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E crushing capacity of 805 psi, Joint 7 SP No.1 crushing capacity of 565 psi.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- Use MiTek JUS210 (With 8-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 14-0-0 oc max. starting at 1-11-4 from the left end to 19-11-4 to connect truss(es) to front face of bottom chord.
- Use MiTek JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 7-11-4 from the left end to 17-11-4 to connect truss(es) to front face of bottom chord.
- Use MiTek MSH29 (With 18-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-3-0 oc max. starting at 21-9-12 from the left end to 25-11-4 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (lb/ft)  
Vert: 1-18=-20, 1-4=-60, 4-7=-60  
Concentrated Loads (lb)  
Vert: 12=-1485 (F), 17=-1488 (F), 20=-1593 (F), 21=-1485 (F), 22=-245 (F), 23=-245 (F), 24=-245 (F), 25=-245 (F), 26=-245 (F), 27=-245 (F), 28=-1340 (F), 29=-1775 (F), 30=-1775 (F)



April 2,2025

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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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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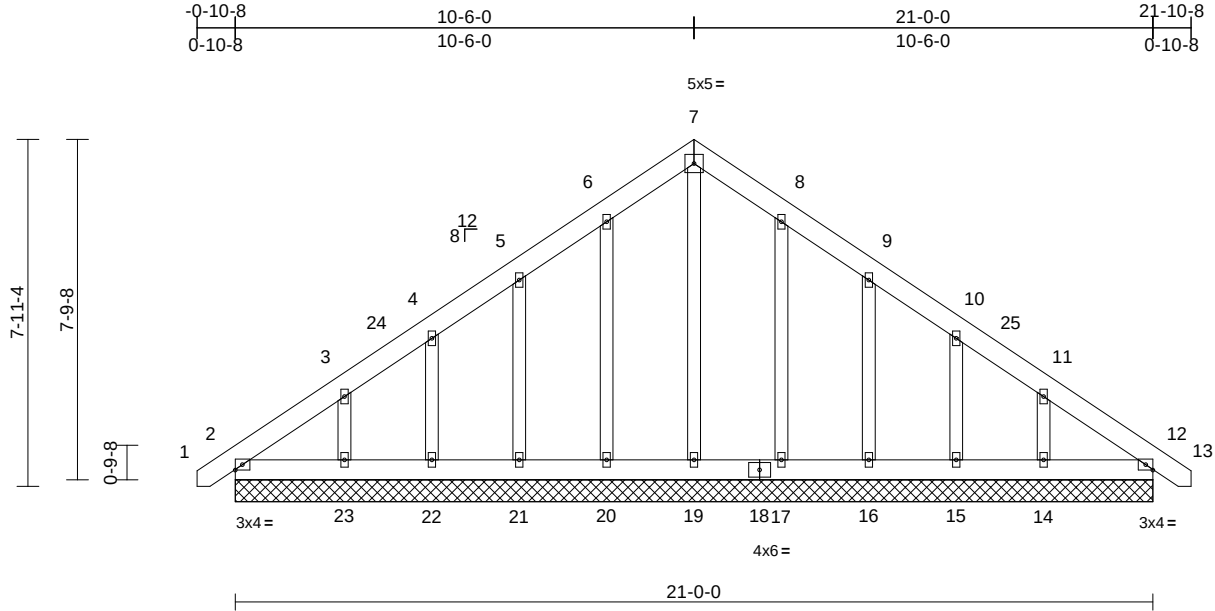
818 Soundside Road  
Edenton, NC 27932

|            |       |                        |     |     |                          |           |
|------------|-------|------------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type             | Qty | Ply | Lot 20 Turlington Acres  | 172472006 |
| J0425-1939 | C01   | Common Supported Gable | 1   | 1   | Job Reference (optional) |           |

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



|                |       |                 |                 |            |      |             |      |       |        |     |                |             |
|----------------|-------|-----------------|-----------------|------------|------|-------------|------|-------|--------|-----|----------------|-------------|
| <b>Loading</b> | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in   | (loc) | l/defl | L/d | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL (roof)    | 20.0  | Plate Grip DOL  | 1.15            | TC         | 0.03 | Vert(LL)    | n/a  | -     | n/a    | 999 | MT20           | 244/190     |
| TCDL           | 10.0  | Lumber DOL      | 1.15            | BC         | 0.02 | Vert(CT)    | n/a  | -     | n/a    | 999 |                |             |
| BCLL           | 0.0*  | Rep Stress Incr | YES             | WB         | 0.12 | Horz(CT)    | 0.00 | 12    | n/a    | n/a |                |             |
| BCDL           | 10.0  | Code            | IRC2021/TPI2014 | Matrix-S   |      |             |      |       |        |     | Weight: 166 lb | FT = 25%    |

#### LUMBER

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

#### BRACING

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

#### REACTIONS

|            |                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (size)     | 2=21-0-0, 12=21-0-0, 14=21-0-0, 15=21-0-0, 16=21-0-0, 17=21-0-0, 19=21-0-0, 20=21-0-0, 21=21-0-0, 22=21-0-0, 23=21-0-0                                                       |
| Max Horiz  | 2=-224 (LC 10)                                                                                                                                                               |
| Max Uplift | 2=-48 (LC 8), 12=-2 (LC 9), 14=-129 (LC 13), 15=-79 (LC 13), 16=-98 (LC 13), 17=-65 (LC 13), 20=-71 (LC 12), 21=-96 (LC 12), 22=-80 (LC 12), 23=-134 (LC 12)                 |
| Max Grav   | 2=180 (LC 20), 12=153 (LC 1), 14=227 (LC 20), 15=163 (LC 20), 16=182 (LC 20), 17=174 (LC 20), 19=165 (LC 22), 20=181 (LC 19), 21=180 (LC 19), 22=163 (LC 19), 23=232 (LC 19) |

#### FORCES

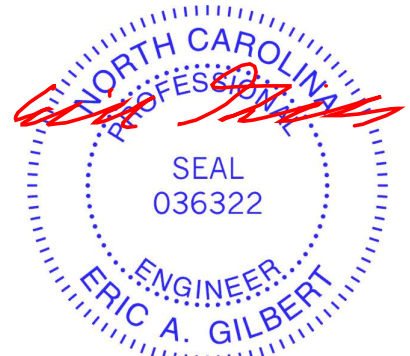
|                                            |                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (lb) - Maximum Compression/Maximum Tension |                                                                                                                                                                 |
| TOP CHORD                                  | 1-2=0/11, 2-3=-213/169, 3-4=-145/120, 4-5=-127/111, 5-6=-112/157, 6-7=-131/216, 7-8=-131/216, 8-9=-97/153, 9-10=-73/71, 10-11=-90/47, 11-12=-162/93, 12-13=0/11 |
| BOT CHORD                                  | 2-23=-78/173, 22-23=-78/173, 21-22=-78/173, 20-21=-78/173, 19-20=-78/173, 17-19=-78/173, 16-17=-78/173, 15-16=-78/173, 14-15=-78/173, 12-14=-78/173             |
| WEBS                                       | 7-19=-136/31, 6-20=-142/95, 5-21=-138/127, 4-22=-130/111, 3-23=-172/176, 8-17=-135/89, 9-16=-141/126, 10-15=-129/111, 11-14=-168/175                            |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-8-12 to 3-8-1, Exterior(2N) 3-8-1 to 10-6-0, Corner(3R) 10-6-0 to 14-10-13, Exterior (2N) 14-10-13 to 21-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.

#### LOAD CASE(S)

Standard



April 2,2025

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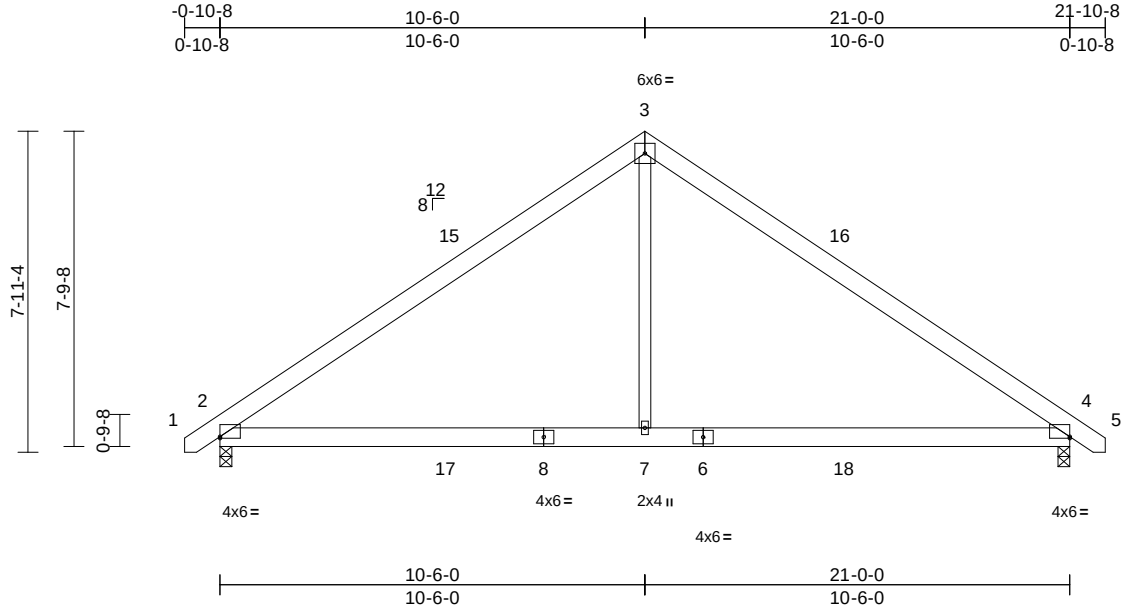
818 Soundside Road  
Edenton, NC 27932

|                   |              |                      |          |          |                                                     |           |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------------------------|-----------|
| Job<br>J0425-1939 | Truss<br>C02 | Truss Type<br>Common | Qty<br>1 | Ply<br>1 | Lot 20 Turlington Acres<br>Job Reference (optional) | I72472007 |
|-------------------|--------------|----------------------|----------|----------|-----------------------------------------------------|-----------|

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Page: 1



Scale = 1:56.9

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.39 | Vert(LL) | -0.10 | 7-14  | >999   | 360 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.46 | Vert(CT) | -0.16 | 7-14  | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.14 | Horz(CT) | 0.02  | 2     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.06  | 7-11  | >999   | 240 | Weight: 124 lb | FT = 25% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Structural wood sheathing directly applied.

**REACTIONS** (size) 2=0-3-8, 4=0-3-8  
Max Horiz 2=179 (LC 11)  
Max Uplift 2=-54 (LC 12), 4=-54 (LC 13)  
Max Grav 2=1052 (LC 19), 4=1052 (LC 20)

#### FORCES

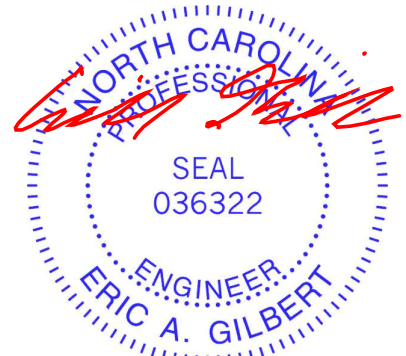
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/24, 2-3=-1210/237, 3-4=-1210/237, 4-5=0/24  
BOT CHORD 2-7=-184/936, 4-7=-164/936  
WEBS 3-7=0/640

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-8-12 to 3-8-1, Interior (1) 3-8-1 to 10-6-0, Exterior(2R) 10-6-0 to 14-10-13, Interior (1) 14-10-13 to 21-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.

- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



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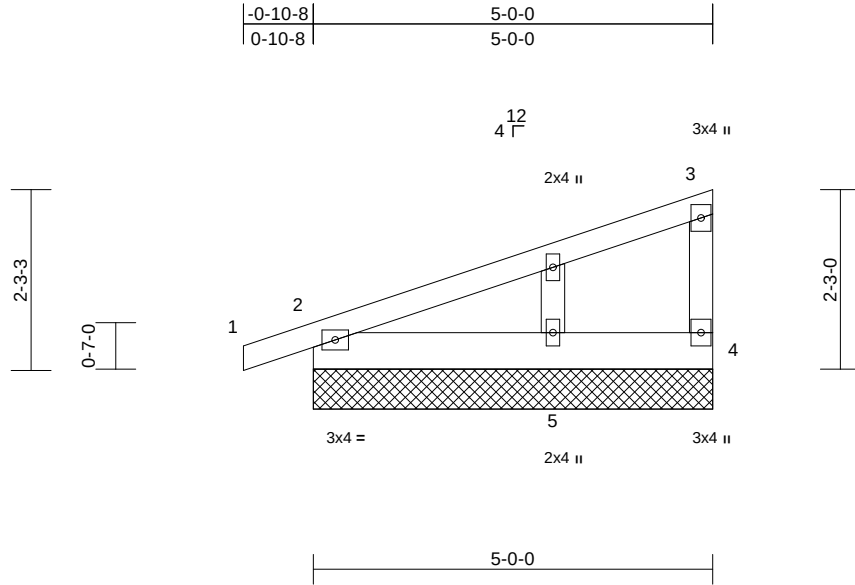
818 Soundside Road  
Edenton, NC 27932

|            |       |                            |     |     |                          |           |
|------------|-------|----------------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type                 | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | M01   | Monopitch Structural Gable | 1   | 1   | Job Reference (optional) | I72472008 |

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Scale = 1:28.8

| Loading     | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in  | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|----------|------|----------|-----|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC       | 0.32 | Vert(LL) | n/a | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC       | 0.02 | Vert(CT) | n/a | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB       | 0.00 | Horz(CT) | n/a | -     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-P |      |          |     |       |        |     | Weight: 25 lb | FT = 25% |

#### LUMBER

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

- All bearings are assumed to be SP No.1 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 59 lb uplift at joint 2.

LOAD CASE(S) Standard

#### BRACING

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

#### REACTIONS

(size) 2=5'-0"-0, 4=5'-0"-0, 5=5'-0"-0  
Max Horiz 2=64 (LC 8)  
Max Uplift 2=-59 (LC 8), 4=-54 (LC 12)  
Max Grav 2=227 (LC 1), 4=150 (LC 1), 5=127 (LC 3)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/5, 2-3=-86/46, 3-4=-141/192  
BOT CHORD 2-5=0/0, 4-5=0/0

#### NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 4-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" 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'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.



April 2,2025

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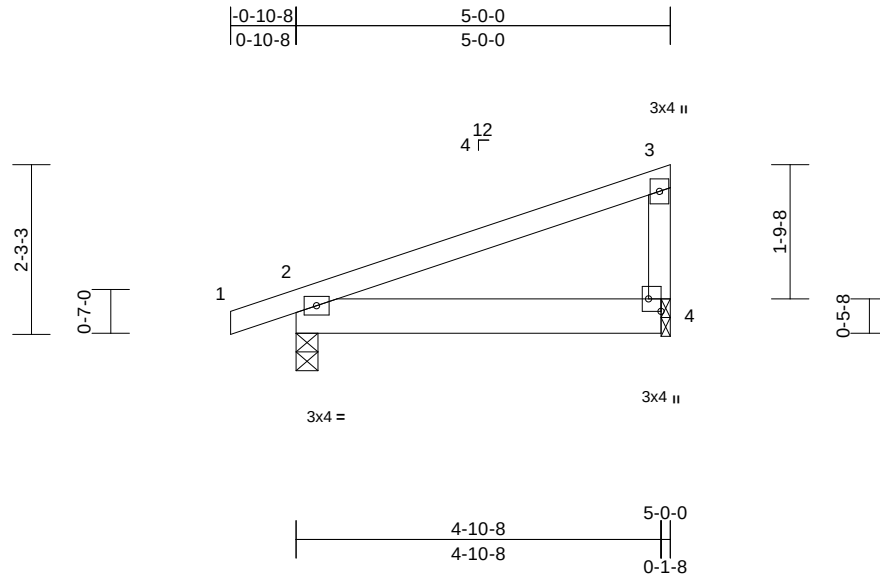
|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | M02   | Monopitch  | 6   | 1   | Job Reference (optional) | I72472009 |

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Scale = 1:30.8

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.18 | Vert(LL) | -0.01 | 4-7   | >999   | 360 | MT20          | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.12 | Vert(CT) | -0.02 | 4-7   | >999   | 240 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00  | 2     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.01  | 4-7   | >999   | 240 | Weight: 23 lb | FT = 25% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Structural wood sheathing directly applied.

**REACTIONS** (size) 2=0-3-8, 4=0-1-8  
Max Horiz 2=67 (LC 8)  
Max Uplift 2=-44 (LC 8), 4=-31 (LC 12)  
Max Grav 2=251 (LC 1), 4=189 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

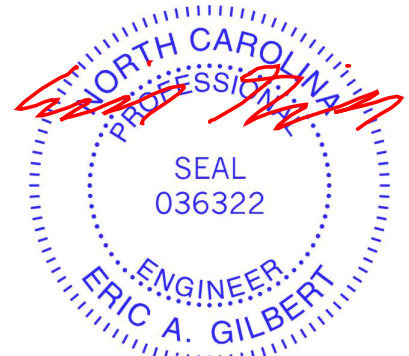
TOP CHORD 1-2=0/17, 2-3=-165/73, 3-4=-111/141  
BOT CHORD 2-4=-43/59

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 4-10-4  
zone;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing  
capacity of 565 psi, Joint 4 SP No.2 crushing capacity of  
565 psi.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to  
bearing plate at joint(s) 4.

- 7) One RT3A MiTek connectors recommended to connect  
truss to bearing walls due to UPLIFT at jt(s) 2 and 4.  
This connection is for uplift only and does not consider  
lateral forces.
- 8) This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

**LOAD CASE(S)** Standard



April 2,2025

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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 and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcacomponents.com](http://www.sbcacomponents.com))

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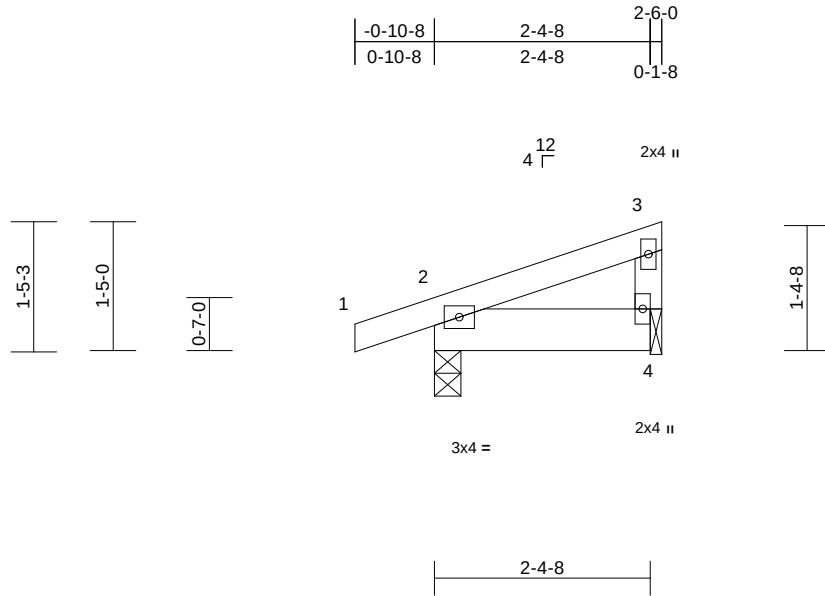


|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | M03   | Monopitch  | 2   | 1   | Job Reference (optional) | I72472010 |

Comtech, Inc, Fayetteville, NC - 28314,

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Scale = 1:25.3

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.04 | Vert(LL) | 0.00 | 7     | >999   | 360 | MT20          | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.02 | Vert(CT) | 0.00 | 4-7   | >999   | 240 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.01 | Horz(CT) | 0.00 | 2     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-MP |      | Wind(LL) | 0.00 | 4-7   | >999   | 240 | Weight: 12 lb | FT = 25% |

#### LUMBER

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

- 7) One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.

**LOAD CASE(S)** Standard

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.  
BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing.

#### REACTIONS (size) 2=0-3-8, 4=0-1-8

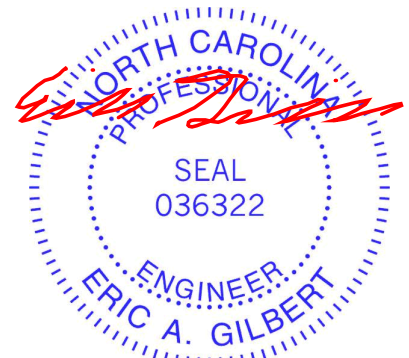
Max Horiz 2=40 (LC 8)  
Max Uplift 2=-41 (LC 8), 4=-14 (LC 12)  
Max Grav 2=156 (LC 1), 4=84 (LC 1)

#### FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17, 2-3=-60/29  
BOT CHORD 2-4=-19/35  
WEBS 3-4=-48/61

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 4 SP No.2 crushing capacity of 565 psi.
- 5) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.



April 2, 2025

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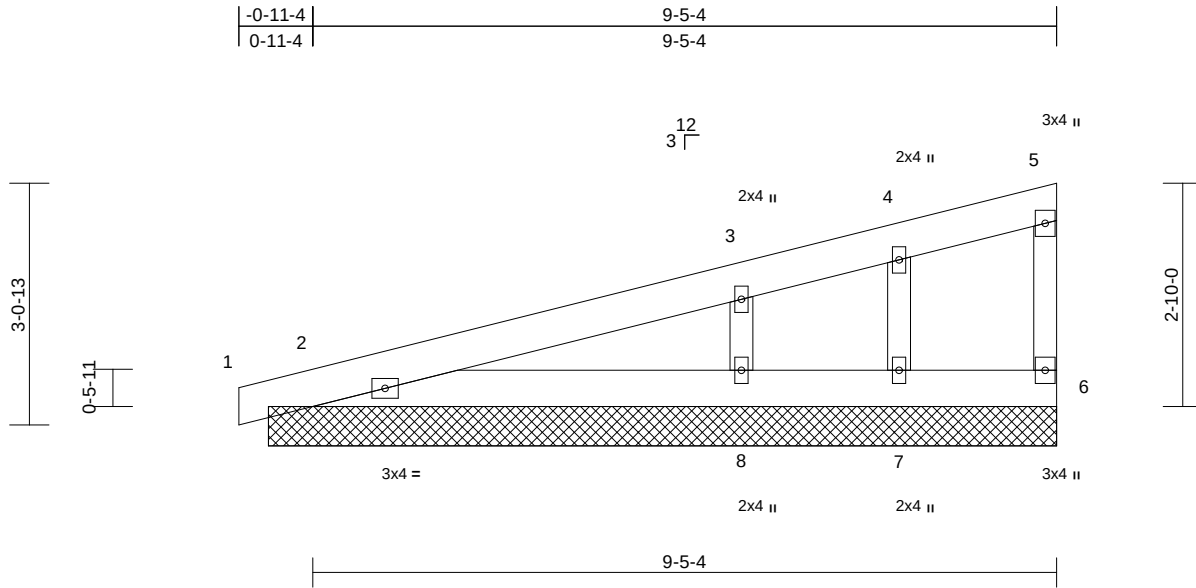
|            |       |                            |     |     |                          |           |
|------------|-------|----------------------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type                 | Qty | Ply | Lot 20 Turlington Acres  | 172472011 |
| J0425-1939 | P01   | Monopitch Structural Gable | 2   | 1   | Job Reference (optional) |           |

Comtech, Inc, Fayetteville, NC - 28314,

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|                |       |                 |                 |            |      |             |      |       |        |     |               |             |
|----------------|-------|-----------------|-----------------|------------|------|-------------|------|-------|--------|-----|---------------|-------------|
| <b>Loading</b> | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in   | (loc) | l/defl | L/d | <b>PLATES</b> | <b>GRIP</b> |
| TCLL (roof)    | 20.0  | Plate Grip DOL  | 1.15            | TC         | 0.08 | Vert(LL)    | n/a  | -     | n/a    | 999 | MT20          | 244/190     |
| TCDL           | 10.0  | Lumber DOL      | 1.15            | BC         | 0.10 | Vert(CT)    | n/a  | -     | n/a    | 999 |               |             |
| BCLL           | 0.0*  | Rep Stress Incr | YES             | WB         | 0.04 | Horz(CT)    | 0.00 | 6     | n/a    | n/a |               |             |
| BCDL           | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS  |      |             |      |       |        |     | Weight: 54 lb | FT = 25%    |

#### LUMBER

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

7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

#### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS

All bearings 10-0-0.  
(lb) - Max Horiz 2=87 (LC 8), 9=87 (LC 8)  
Max Uplift All uplift 100 (lb) or less at joint(s)  
2, 6, 7, 8, 9  
Max Grav All reactions 250 (lb) or less at joint  
(s) 2, 6, 7, 9 except 8=442 (LC 1)

#### FORCES

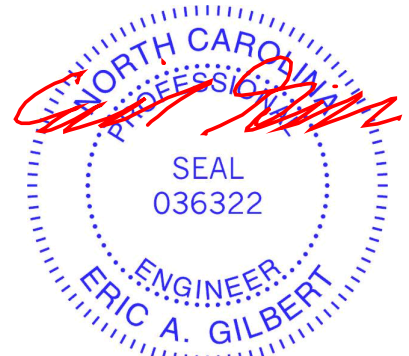
(lb) - Max. Comp./Max. Ten. - All forces 250  
(lb) or less except when shown.

#### WEBS

3-8=278/239

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)  
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;  
Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C  
Exterior(2E) -0-4-8 to 4-0-5, Interior (1) 4-0-5 to 9-10-4  
zone;C-C for members and forces & MWFRS for  
reactions shown; Lumber DOL=1.60 plate grip  
DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss  
only. For studs exposed to wind (normal to the face),  
see Standard Industry Gable End Details as applicable,  
or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom  
chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf  
on the bottom chord in all areas where a rectangle  
3-06-00 tall by 2-00-00 wide will fit between the bottom  
chord and any other members.



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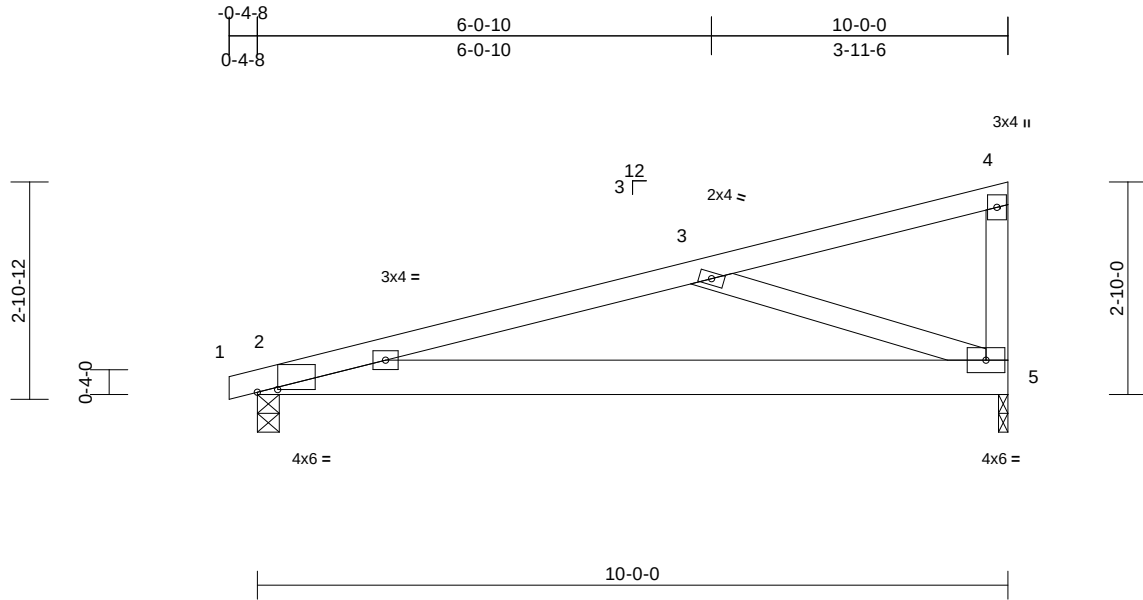
818 Soundside Road  
Edenton, NC 27932

|            |       |            |     |     |                          |           |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job        | Truss | Truss Type | Qty | Ply | Lot 20 Turlington Acres  |           |
| J0425-1939 | P02   | Monopitch  | 4   | 1   | Job Reference (optional) | I72472012 |

Comtech, Inc, Fayetteville, NC - 28314,

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Page: 1



Scale = 1:30.7

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

| Loading     | (psf) | Spacing         | 2'-0'-0         | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.33 | Vert(LL) | -0.06 | 5-7   | >999   | 360 | MT20          | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.28 | Vert(CT) | -0.14 | 5-7   | >831   | 240 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.18 | Horz(CT) | 0.01  | 5     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | IRC2021/TPI2014 | Matrix-AS |      | Wind(LL) | 0.04  | 5-7   | >999   | 240 | Weight: 48 lb | FT = 25% |

#### LUMBER

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

#### BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (lb/size) 2=420/0-3-8, 5=387/0-1-8

Max Horiz 2=85 (LC 8)  
Max Uplift 2=-51 (LC 8), 5=-51 (LC 12)

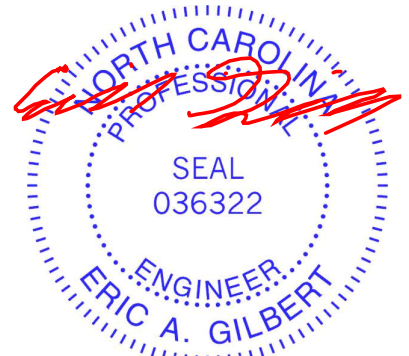
**FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-693/354  
BOT CHORD 2-5=-438/648  
WEBS 3-5=-588/449

#### NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-4-8 to 4-0-5, Interior (1) 4-0-5 to 9-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



April 2,2025

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

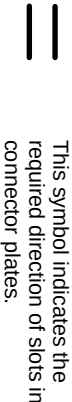
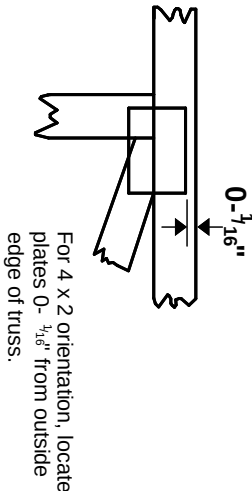
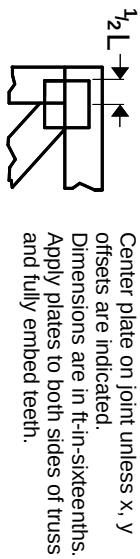
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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# Symbols

## PLATE LOCATION AND ORIENTATION



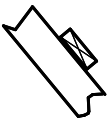
\* Plate location details available in MITek software or upon request.

## PLATE SIZE

**4 X 4**

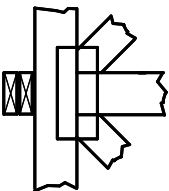
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

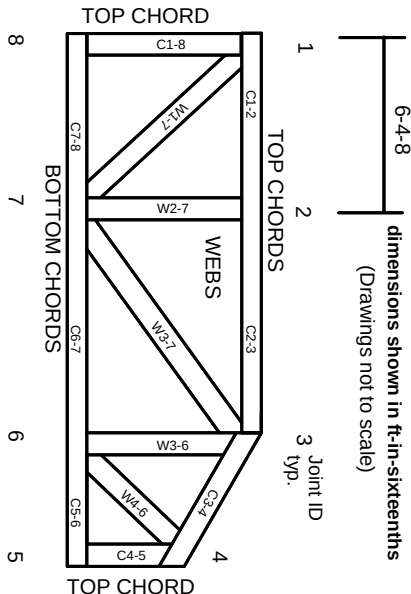


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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

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

# Product Code Approvals

ICC-ES Reports:  
ESR-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

# Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.  
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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# 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023