



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

RE: 5554471 -

MiTek, Inc.

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

**Site Information:**

Customer Info: G. BUZBEE, INC. Project Name: DuBose Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: TBD S US HWY 441, N/A  
City: HIGH SPRINGS, State: FL

**Name Address and License # of Structural Engineer of Record, If there is one, for the building.**

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4  
Wind Code: ASCE 7-22 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 11 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal#     | Truss Name | Date    |
|-----|-----------|------------|---------|
| 1   | T41943001 | T01        | 7/22/26 |
| 2   | T41943002 | T01G       | 7/22/26 |
| 3   | T41943003 | T02        | 7/22/26 |
| 4   | T41943004 | T02G       | 7/22/26 |
| 5   | T41943005 | T03        | 7/22/26 |
| 6   | T41943006 | T03A       | 7/22/26 |
| 7   | T41943007 | T03G       | 7/22/26 |
| 8   | T41943008 | T04        | 7/22/26 |
| 9   | T41943009 | T04G       | 7/22/26 |
| 10  | T41943010 | T05        | 7/22/26 |
| 11  | T41943011 | T05G       | 7/22/26 |

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.

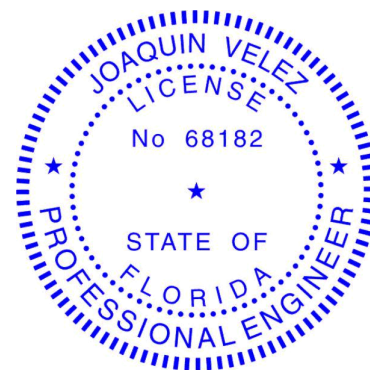
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The truss drawing(s) referenced above have been prepared by  
MiTek USA, Inc. under my direct supervision based on the parameters  
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2027.

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



Joaquin Velez PE No.68182  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

July 22,2026

Velez, Joaquin

1 of 1

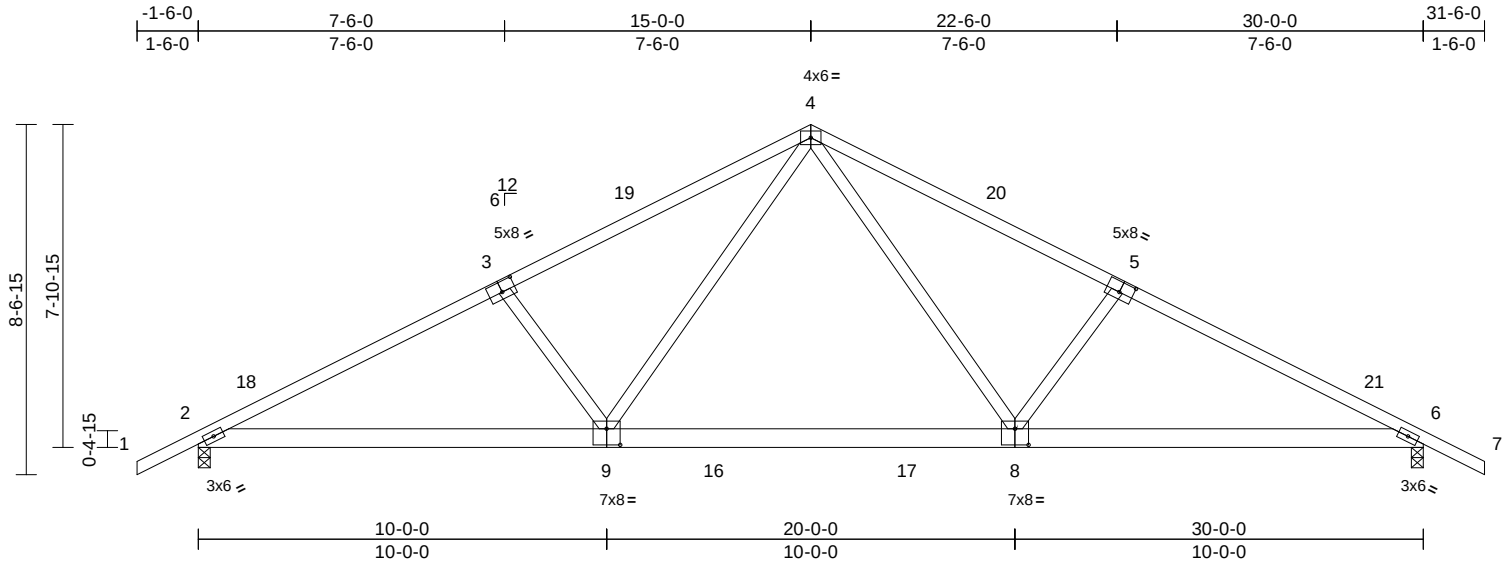
|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | T41943001                |
| 5554471 | T01   | Common     | 8   | 1   | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:56.4

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.71 | Vert(LL) | -0.21 | 8-9   | >999   | 240 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.25            | BC        | 0.41 | Vert(CT) | -0.41 | 8-9   | >877   | 180 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.53 | Horz(CT) | 0.05  | 6     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 164 lb | FT = 20% |

**LUMBER**  
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 \*Except\* 5-7,3-1:2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26  
WEBS 2x4 SP No.3

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

**REACTIONS** (size) 2=0-3-8, 6=0-3-8  
Max Horiz 2=-138 (LC 13)  
Max Uplift 2=-413 (LC 12), 6=-413 (LC 13)  
Max Grav 2=1648 (LC 2), 6=1648 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-4=-2950/718, 4-6=-2950/718, 6-7=0/40  
BOT CHORD 2-6=-671/2606  
WEBS 4-8=-341/1236, 5-8=-429/283, 4-9=-341/1236, 3-9=-429/282

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
  - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 413 lb uplift at joint 2 and 413 lb uplift at joint 6.
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 9-10=-20, 8-9=-80, 8-13=-20, 1-4=-60, 4-7=-60

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

July 22,2026

**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.sbcsccomponents.com)

**MiTek®**

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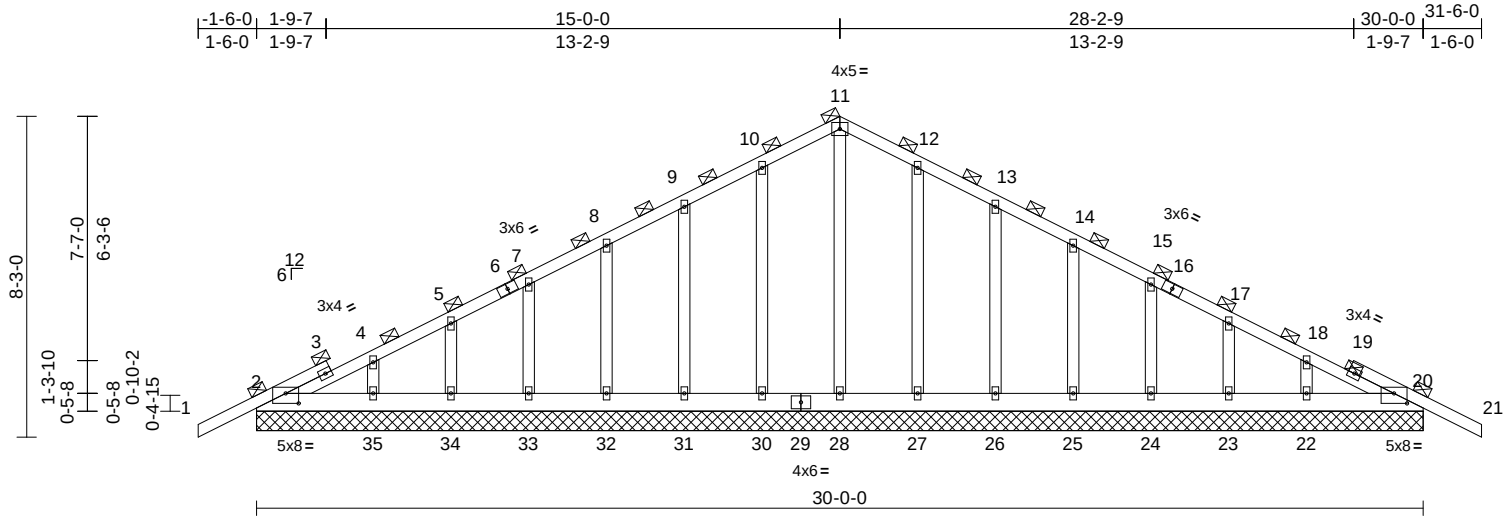
|                          |       |                        |     |     |           |
|--------------------------|-------|------------------------|-----|-----|-----------|
| Job                      | Truss | Truss Type             | Qty | Ply |           |
| 5554471                  | T01G  | Common Supported Gable | 1   | 1   | T41943002 |
| Job Reference (optional) |       |                        |     |     |           |

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Page: 1

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Scale = 1:59.2

Plate Offsets (X, Y): [2:0-4-0,0-3-1], [20:0-4-0,0-3-1]

| Loading                 | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d | PLATES | GRIP    |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof)             | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.16 | Vert(LL) | n/a   | -      | n/a | 999    | MT20    |
| TCDL                    | 10.0  | Lumber DOL      | 1.25            | BC        | 0.03 | Vert(CT) | n/a   | -      | n/a | 999    | 244/190 |
| BCLL                    | 0.0*  | Rep Stress Incr | NO              | WB        | 0.12 | Horz(CT) | 0.00  | 39     | n/a | n/a    |         |
| BCDL                    | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       |        |     |        |         |
| Weight: 199 lb FT = 20% |       |                 |                 |           |      |          |       |        |     |        |         |

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
OTHERS 2x4 SP No.3

**BRACING**  
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 2=30-0-0, 20=30-0-0, 22=30-0-0, 23=30-0-0, 24=30-0-0, 25=30-0-0, 26=30-0-0, 27=30-0-0, 28=30-0-0, 30=30-0-0, 31=30-0-0, 32=30-0-0, 33=30-0-0, 34=30-0-0, 35=30-0-0  
Max Horiz 2=-132 (LC 13)  
Max Uplift 2=-36 (LC 8), 20=-42 (LC 13), 22=-63 (LC 13), 23=-68 (LC 13), 24=-68 (LC 13), 25=-67 (LC 13), 26=-70 (LC 13), 27=-67 (LC 13), 30=-68 (LC 12), 31=-69 (LC 12), 32=-67 (LC 12), 33=-68 (LC 12), 34=-69 (LC 12), 35=-58 (LC 12)  
Max Grav 2=222 (LC 1), 20=222 (LC 1), 22=204 (LC 1), 23=147 (LC 26), 24=163 (LC 1), 25=159 (LC 26), 26=159 (LC 1), 27=168 (LC 26), 28=167 (LC 22), 30=168 (LC 25), 31=159 (LC 1), 32=159 (LC 25), 33=163 (LC 1), 34=147 (LC 25), 35=204 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/40, 2-4=-142/53, 4-5=-110/59, 5-7=-76/72, 7-8=-54/92, 8-9=-44/116, 9-10=-62/152, 10-11=-81/197, 11-12=-81/197, 12-13=-62/152, 13-14=-44/104, 14-15=-38/57, 15-17=-45/31, 17-18=-69/25, 18-20=-102/39, 20-21=0/40

**BOT CHORD** 2-35=-53/149, 34-35=-53/149, 33-34=-53/149, 32-33=-53/149, 31-32=-53/149, 30-31=-53/149, 28-30=-53/149, 27-28=-53/149, 26-27=-53/149, 25-26=-53/149, 24-25=-53/149, 23-24=-53/149, 22-23=-53/149, 20-22=-53/149  
**WEBS** 11-28=-127/20, 10-30=-128/85, 9-31=-119/91, 8-32=-120/88, 7-33=-120/88, 5-34=-119/91, 4-35=-127/77, 12-27=-128/85, 13-26=-119/90, 14-25=-120/88, 15-24=-120/88, 17-23=-119/91, 18-22=-127/77

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 42 lb uplift at joint 20, 68 lb uplift at joint 30, 69 lb uplift at joint 31, 67 lb uplift at joint 32, 68 lb uplift at joint 33, 69 lb uplift at joint 34, 58 lb uplift at joint 35, 67 lb uplift at joint 27, 70 lb uplift at joint 26, 67 lb uplift at joint 25, 68 lb uplift at joint 24, 68 lb uplift at joint 23, 63 lb uplift at joint 22, 36 lb uplift at joint 2 and 42 lb uplift at joint 20.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**LOAD CASE(S)** Standard

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Joaquin Velez PE No.68182  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

July 22,2026

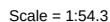
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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 the 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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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  | 1.25            | TC         | 0.80 | Vert(LL)    | -0.33 | 7-9   | >999   | 240 | MT20           | 244/190     |
| TCDL           | 10.0  | Lumber DOL      | 1.25            | BC         | 0.83 | Vert(CT)    | -0.50 | 7-9   | >721   | 180 |                |             |
| BCLL           | 0.0*  | Rep Stress Incr | YES             | WB         | 0.37 | Horz(CT)    | 0.06  | 6     | n/a    | n/a |                |             |
| BCDL           | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS  |      |             |       |       |        |     | Weight: 137 lb | FT = 20%    |

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 30-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 284 lb uplift at joint 6 and 323 lb uplift at joint 2.

LOAD CASE(S) Standard

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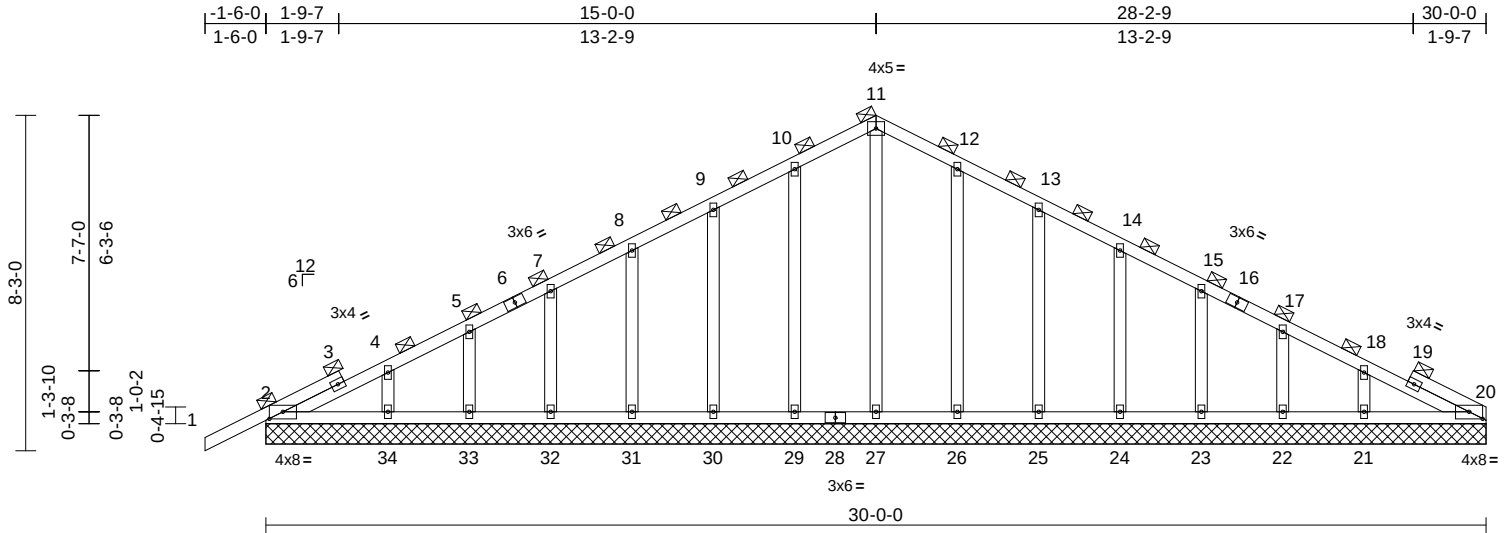
|                          |       |                        |     |     |           |
|--------------------------|-------|------------------------|-----|-----|-----------|
| Job                      | Truss | Truss Type             | Qty | Ply |           |
| 5554471                  | T02G  | Common Supported Gable | 1   | 1   | T41943004 |
| Job Reference (optional) |       |                        |     |     |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Tue Jul 21 14:31:24

Page: 1

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Scale = 1:56.7

Plate Offsets (X, Y): [2:0-4-0,0-2-1], [20:0-4-0,0-2-1]

| Loading                 | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d | PLATES | GRIP    |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof)             | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.16 | Vert(LL) | n/a   | -      | n/a | 999    | 244/190 |
| TCDL                    | 10.0  | Lumber DOL      | 1.25            | BC        | 0.08 | Vert(CT) | n/a   | -      | n/a | 999    |         |
| BCLL                    | 0.0*  | Rep Stress Incr | NO              | WB        | 0.13 | Horz(CT) | 0.01  | 20     | n/a | n/a    |         |
| BCDL                    | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       |        |     |        |         |
| Weight: 175 lb FT = 20% |       |                 |                 |           |      |          |       |        |     |        |         |

|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>LUMBER</b>                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                            | <b>BOT CHORD</b>                                                                                                                                                                                                                      |  | 2-34=-38/111, 33-34=-38/111, 32-33=-38/111, 31-32=-38/111, 30-31=-38/111, 29-30=-38/111, 27-29=-38/111, 26-27=-38/111, 25-26=-38/111, 24-25=-38/111, 23-24=-38/111, 22-23=-38/111, 21-22=-38/111, 20-21=-38/111 |  | 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 68 lb uplift at joint 29, 69 lb uplift at joint 30, 67 lb uplift at joint 31, 68 lb uplift at joint 32, 68 lb uplift at joint 33, 64 lb uplift at joint 34, 66 lb uplift at joint 26, 70 lb uplift at joint 25, 67 lb uplift at joint 24, 70 lb uplift at joint 23, 60 lb uplift at joint 22, 88 lb uplift at joint 21 and 39 lb uplift at joint 2. |  |
| TOP CHORD                                                                                                                                                                                                                         | 2x4 SP No.2                                                                                                                                                                                                                                                                | <b>WEBS</b>                                                                                                                                                                                                                           |  | 11-27=-132/23, 10-29=-128/85, 9-30=-119/91, 8-31=-120/88, 7-32=-121/88, 5-33=-115/90, 4-34=-143/87, 12-26=-128/85, 13-25=-119/91, 14-24=-120/87, 15-23=-122/89, 17-22=-110/85, 18-21=-160/97                    |  | 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.                                                                                                                                                                                                                                                                                                                                             |  |
| BOT CHORD                                                                                                                                                                                                                         | 2x4 SP No.2                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| OTHERS                                                                                                                                                                                                                            | 2x4 SP No.3                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>BRACING</b>                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| TOP CHORD                                                                                                                                                                                                                         | 2-0-0 oc purlins (6-0-0 max.).                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| BOT CHORD                                                                                                                                                                                                                         | Rigid ceiling directly applied or 10-0-0 oc bracing.                                                                                                                                                                                                                       |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>REACTIONS</b> (size)                                                                                                                                                                                                           | 2=30-0-0, 20=30-0-0, 21=30-0-0, 22=30-0-0, 23=30-0-0, 24=30-0-0, 25=30-0-0, 26=30-0-0, 27=30-0-0, 29=30-0-0, 30=30-0-0, 31=30-0-0, 32=30-0-0, 33=30-0-0, 34=30-0-0                                                                                                         |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | Max Horiz                                                                                                                                                                                                                                                                  | 2=144 (LC 16)                                                                                                                                                                                                                         |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | Max Uplift                                                                                                                                                                                                                                                                 | 2=-39 (LC 8), 21=-88 (LC 13), 22=-60 (LC 13), 23=-70 (LC 13), 24=-67 (LC 13), 25=-70 (LC 13), 26=-66 (LC 13), 29=-68 (LC 12), 30=-69 (LC 12), 31=-67 (LC 12), 32=-68 (LC 12), 33=-68 (LC 12), 34=-64 (LC 12)                          |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | Max Grav                                                                                                                                                                                                                                                                   | 2=223 (LC 1), 20=105 (LC 1), 21=239 (LC 1), 22=136 (LC 26), 23=166 (LC 1), 24=159 (LC 26), 25=159 (LC 1), 26=168 (LC 26), 27=172 (LC 22), 29=168 (LC 25), 30=159 (LC 1), 31=160 (LC 25), 32=163 (LC 1), 33=149 (LC 25), 34=200 (LC 1) |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | <b>FORCES</b> (lb) - Maximum Compression/Maximum Tension                                                                                                                                                                                                                   |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | TOP CHORD                                                                                                                                                                                                                                                                  | 1-2=0/40, 2-4=-145/60, 4-5=-107/66, 5-7=-77/79, 7-8=-56/104, 8-9=-47/128, 9-10=-65/156, 10-11=-83/202, 11-12=-83/202, 12-13=-65/156, 13-14=-47/108, 14-15=-37/62, 15-17=-38/31, 17-18=-64/21, 18-20=-97/39                            |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | <b>NOTES</b>                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | 1) Unbalanced roof live loads have been considered for this design.                                                                                                                                                                                                        |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.                                                                                                                                                                       |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   | 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 4) 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. |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.                                                      |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 6) All plates are 2x4 (II) MT20 unless otherwise indicated.                                                                                                                                                                       |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 7) Gable requires continuous bottom chord bearing.                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 8) Gable studs spaced at 2-0-0 oc.                                                                                                                                                                                                |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                                    |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 10) * 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.                            |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>LOAD CASE(S)</b> Standard                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                            | This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.    |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                            | Joaquin Velez PE No.68182<br>MiTek Inc. DBA MiTek USA FL Cert 6634<br>16023 Swingley Ridge Rd.<br>Chesterfield, MO 63017                                                                                                              |  |                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |

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Joaquin Velez PE No.68182  
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Chesterfield, MO 63017  
Date:

July 22,2026

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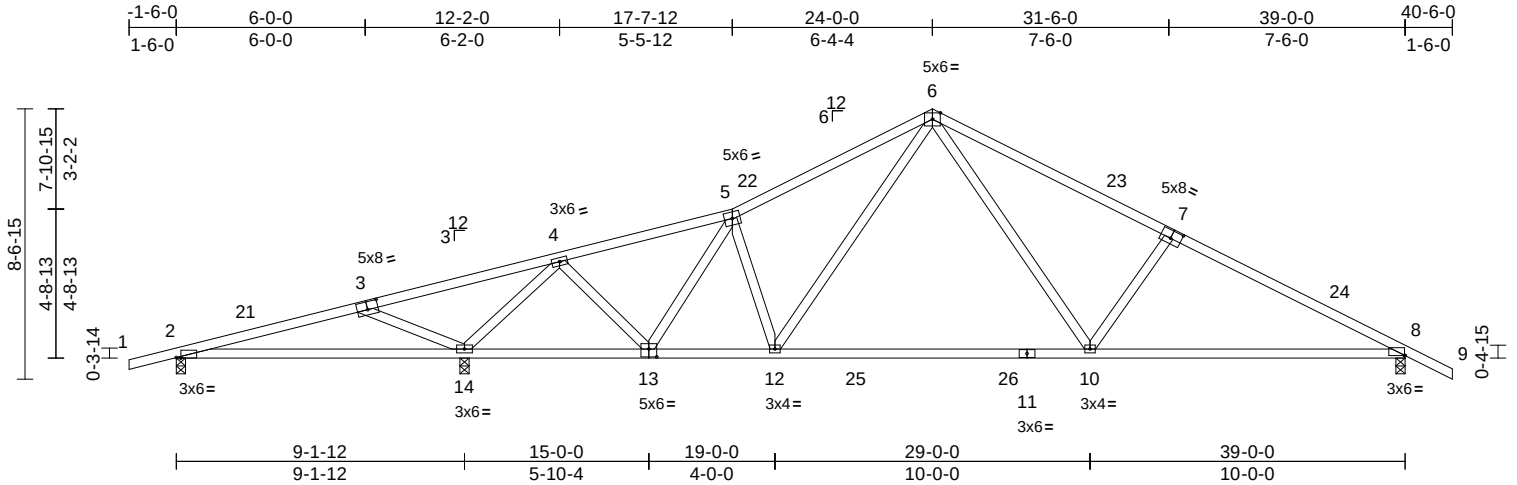
|                          |       |              |     |     |           |
|--------------------------|-------|--------------|-----|-----|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply |           |
| 5554471                  | T03   | Roof Special | 8   | 1   | T41943005 |
| Job Reference (optional) |       |              |     |     |           |

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|                                                                                                           |       |                 |                 |            |      |             |             |        |     |                |             |
|-----------------------------------------------------------------------------------------------------------|-------|-----------------|-----------------|------------|------|-------------|-------------|--------|-----|----------------|-------------|
| Scale = 1:73.1                                                                                            |       |                 |                 |            |      |             |             |        |     |                |             |
| Plate Offsets (X, Y): [2:0-1-12,Edge], [3:0-4-0,0-3-0], [7:0-4-0,0-3-0], [8:0-0-4,Edge], [13:0-3-0,0-3-0] |       |                 |                 |            |      |             |             |        |     |                |             |
| <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  | 1.25            | TC         | 0.73 | Vert(LL)    | 0.16 14-20  | >686   | 240 | MT20           | 244/190     |
| TCDL                                                                                                      | 10.0  | Lumber DOL      | 1.25            | BC         | 0.84 | Vert(CT)    | -0.55 10-12 | >656   | 180 |                |             |
| BCLL                                                                                                      | 0.0*  | Rep Stress Incr | YES             | WB         | 0.82 | Horz(CT)    | 0.04 8      | n/a    | n/a |                |             |
| BCDL                                                                                                      | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS  |      |             |             |        |     | Weight: 190 lb | FT = 20%    |

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1 \*Except\* 13-2:2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-14.

**REACTIONS** (size) 2=0-3-8, 8=0-3-8, 14=0-3-8  
Max Horiz 2=-143 (LC 17)  
Max Uplift 2=-206 (LC 8), 8=-314 (LC 13), 14=-495 (LC 12)  
Max Grav 2=251 (LC 25), 8=1299 (LC 2), 14=2041 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/22, 2-4=-323/1051, 4-5=-1148/260, 5-6=-1655/381, 6-8=-2088/476, 8-9=0/40  
BOT CHORD 2-14=-528/180, 12-14=-266/1450, 10-12=-134/1128, 8-10=-320/1826  
WEBS 3-14=-626/336, 4-14=-2062/565, 4-13=-122/914, 5-13=-723/152, 6-10=-222/887, 7-10=-459/295, 6-12=-146/578, 5-12=-229/177

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 2-4-13, Zone1 2-4-13 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 40-6-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 314 lb uplift at joint 8, 495 lb uplift at joint 14 and 206 lb uplift at joint 2.

**LOAD CASE(S)** Standard

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Joaquin Velez PE No.68182  
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Chesterfield, MO 63017  
Date:

July 22,2026

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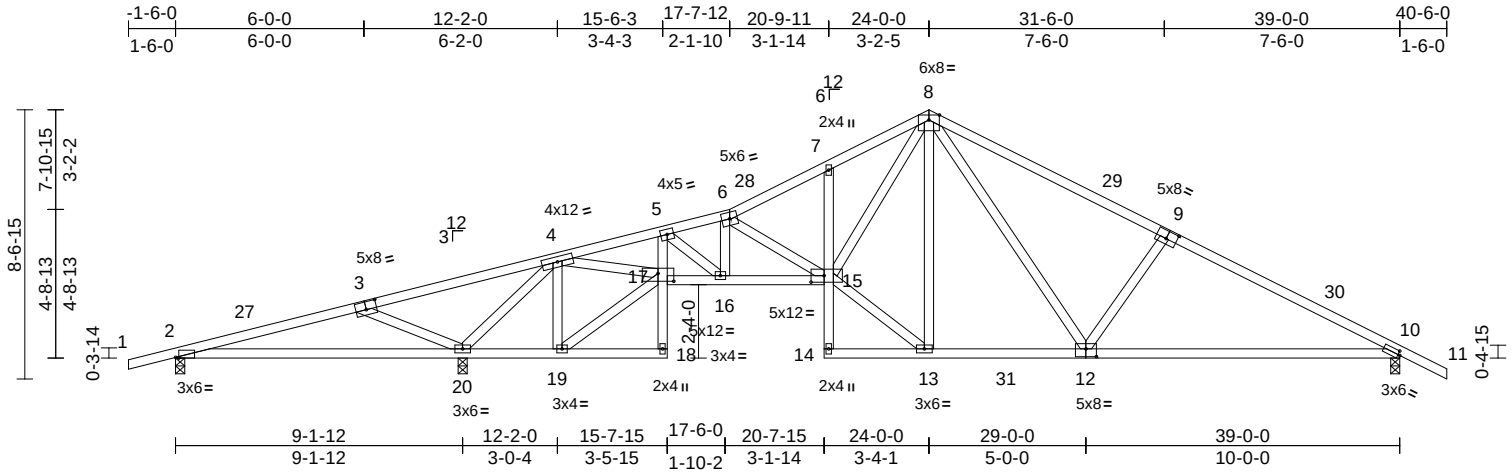
|                          |       |              |     |     |           |
|--------------------------|-------|--------------|-----|-----|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply |           |
| 5554471                  | T03A  | Roof Special | 1   | 1   | T41943006 |
| Job Reference (optional) |       |              |     |     |           |

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Scale = 1:73.4

Plate Offsets (X, Y): [2:0-1-4,Edge], [3:0-4-0,0-3-0], [9:0-4-0,0-3-0], [10:0-0-12,0-1-8], [12:0-4-0,0-3-0], [15:0-5-0,0-2-8], [17:0-6-0,0-3-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.94 | Vert(LL) | 0.14  | 20-23 | >795   | 240 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.25            | BC        | 0.94 | Vert(CT) | -0.53 | 12-26 | >679   | 180 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.94 | Horz(CT) | 0.13  | 10    | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 221 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\* 18-5,7-14:2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING

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

**REACTIONS** (size) 2=0-3-8, 10=0-3-8, 20=0-3-8  
Max Horiz 2=-143 (LC 17)  
Max Uplift 2=-205 (LC 10), 10=-309 (LC 13), 20=-566 (LC 12)  
Max Grav 2=40 (LC 25), 10=1199 (LC 2), 20=2376 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/22, 2-4=-539/2148, 4-5=-1797/373, 5-6=-2101/425, 6-7=-1908/379, 7-8=-1876/442, 8-10=-1848/468, 10-11=0/40  
BOT CHORD 2-20=-1516/239, 19-20=-295/123, 18-19=-5/36, 17-18=-2/82, 5-17=-380/123, 16-17=-347/1767, 15-16=-371/2045, 14-15=0/66, 7-15=-196/127, 13-14=-5/31, 10-13=-314/1617  
WEBS 5-16=-96/345, 6-16=-242/88, 6-15=-431/142, 8-15=-296/1351, 8-12=-236/781, 9-12=-463/294, 4-17=-380/2040, 8-13=-567/82, 13-15=-110/1156, 4-20=-2507/642, 3-20=-653/344, 4-19=-63/259, 17-19=-411/157

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 2-4-13, Zone1 2-4-13 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 40-6-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 205 lb uplift at joint 2, 566 lb uplift at joint 20 and 309 lb uplift at joint 10.

**LOAD CASE(S)** Standard

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Chesterfield, MO 63017  
Date:

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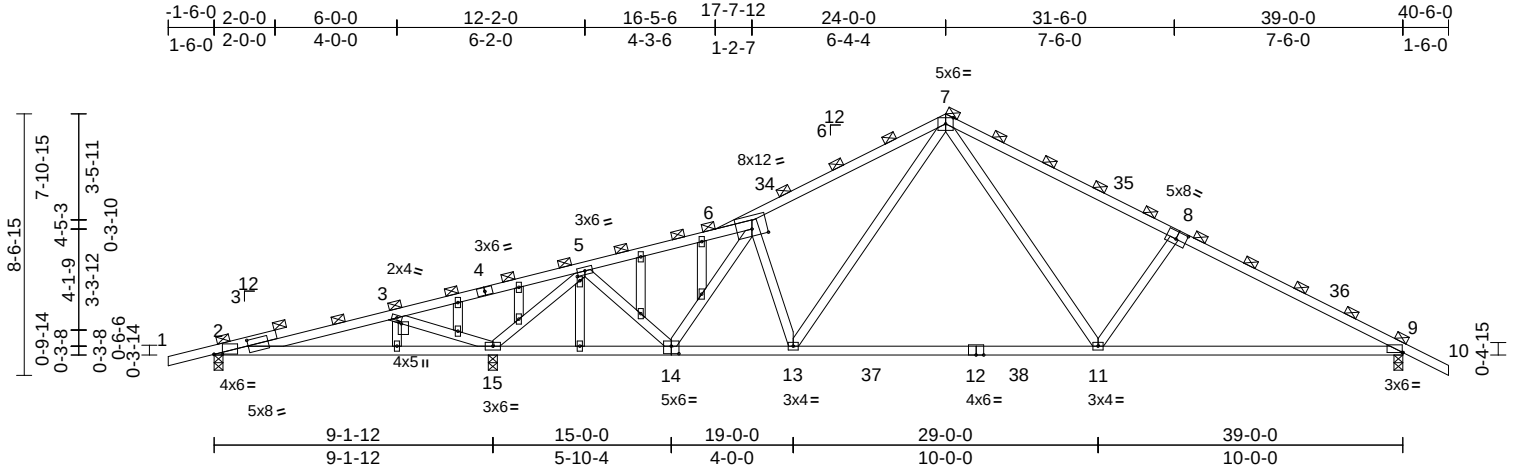
|                          |       |              |     |     |           |
|--------------------------|-------|--------------|-----|-----|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply |           |
| 5554471                  | T03G  | Roof Special | 1   | 1   | T41943007 |
| Job Reference (optional) |       |              |     |     |           |

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Scale = 1:75.6

Plate Offsets (X, Y): [2:0-3-4,0-0-2], [2:1-1-13,0-2-4], [6:0-6-0,0-2-12], [8:0-4-0,0-3-0], [9:0-0-4,Edge], [14:0-3-0,0-3-0], [17:0-0-12,0-1-4], [23:0-1-10,0-1-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.84 | Vert(LL) | 0.18  | 15-30 | >587   | 240 | MT20           | 244/190  |
| TCDL        | 10.0  | Lumber DOL      | 1.25            | BC        | 0.93 | Vert(CT) | -0.55 | 11-13 | >653   | 180 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.78 | Horz(CT) | 0.04  | 9     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       |       |        |     | Weight: 206 lb | FT = 20% |

#### LUMBER

TOP CHORD 2x4 SP No.2 \*Except\* 6-7,7-8:2x4 SP No.1  
 BOT CHORD 2x4 SP No.1 \*Except\* 2-14:2x4 SP No.2  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3

#### BRACING

TOP CHORD 2-0-0 oc purlins (3-5-6 max.).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:  
 6-0-0 oc bracing: 2-15.

#### REACTIONS

(size) 2=0-3-8, 9=0-3-8, 15=0-3-8  
 Max Horiz 2=143 (LC 12)  
 Max Uplift 2=-274 (LC 8), 9=-314 (LC 13),  
 15=-496 (LC 12)  
 Max Grav 2=394 (LC 25), 9=1314 (LC 2),  
 15=1981 (LC 2)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/24, 2-3=-101/446, 3-5=-366/998,  
 5-6=-1357/277, 6-7=-1775/382,  
 7-9=-2120/475, 9-10=0/40  
 BOT CHORD 2-15=-401/153, 13-15=-297/1588,  
 11-13=-139/1159, 9-11=-320/1855  
 WEBS 3-15=-757/420, 5-15=-2133/612,  
 7-11=-221/885, 8-11=-457/293,  
 6-14=-645/141, 5-14=-130/878,  
 6-13=-284/186, 7-13=-146/658

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)  
 Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 2-3-7, Zone1 2-3-7 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 40-6-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 2, 496 lb uplift at joint 15 and 314 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 Date:

July 22,2026

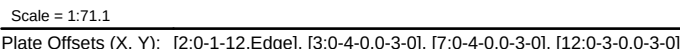
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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.sbcsccomponents.com)

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ID: Y 770HVrU7ooAa3mvCN1?mz Y9E-RfC?PsB70Hg3NSaPqnL8w3uITXBgKWCrDc0J74zJC?f



|                  |                                                                                      |                                                                                                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                                      | 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)                                                                                                                                                                            |
| TOP CHORD        | 2x4 SP No.2                                                                          | Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat.                                                                                                                                                                       |
| BOT CHORD        | 2x4 SP No.1 *Except* 2-12:2x4 SP No.2                                                | II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone                                                                                                                                                                    |
| WEBS             | 2x4 SP No.3                                                                          | and C-C Zone3 1-6-0 to 2-4-13, Zone1 2-4-13 to 24-0-0,                                                                                                                                                                     |
| <b>BRACING</b>   |                                                                                      | Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 39-0-0 zone;                                                                                                                                                                       |
| TOP CHORD        | Structural wood sheathing directly applied or 2-2-0 oc purlins.                      | porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60                                                                                                            |
| BOT CHORD        | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-13. | 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.                                               |
| <b>REACTIONS</b> | (size) 2=0-3-8, 8=0-3-8, 13=0-3-8                                                    | 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                             |
|                  | Max Horiz 2=140 (LC 12)                                                              | 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, with BCDL = 10.0psf. |
|                  | Max Uplift 2=-204 (LC 8), 8=-275 (LC 13), 13=-498 (LC 12)                            | 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 8, 204 lb uplift at joint 2 and 498 lb uplift at joint 13.                                           |
|                  | Max Grav 2=252 (LC 25), 8=1222 (LC 2), 13=2042 (LC 2)                                |                                                                                                                                                                                                                            |
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum Tension                                           |                                                                                                                                                                                                                            |
| TOP CHORD        | 1-2=0/22 2-4=-329/1049 4-5=-1152/255                                                 |                                                                                                                                                                                                                            |

## LOAD CASE(S) Standard

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

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Chesterfield, MO 63017  
Date:

July 22, 2026

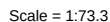


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[illegible]

- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 2-3-7, Zone1 2-3-7 to 24-0-0, Zone2 24-0-0 to 29-6-3, Zone1 29-6-3 to 39-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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.
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 2, 489 lb uplift at joint 16 and 276 lb uplift at joint 11.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

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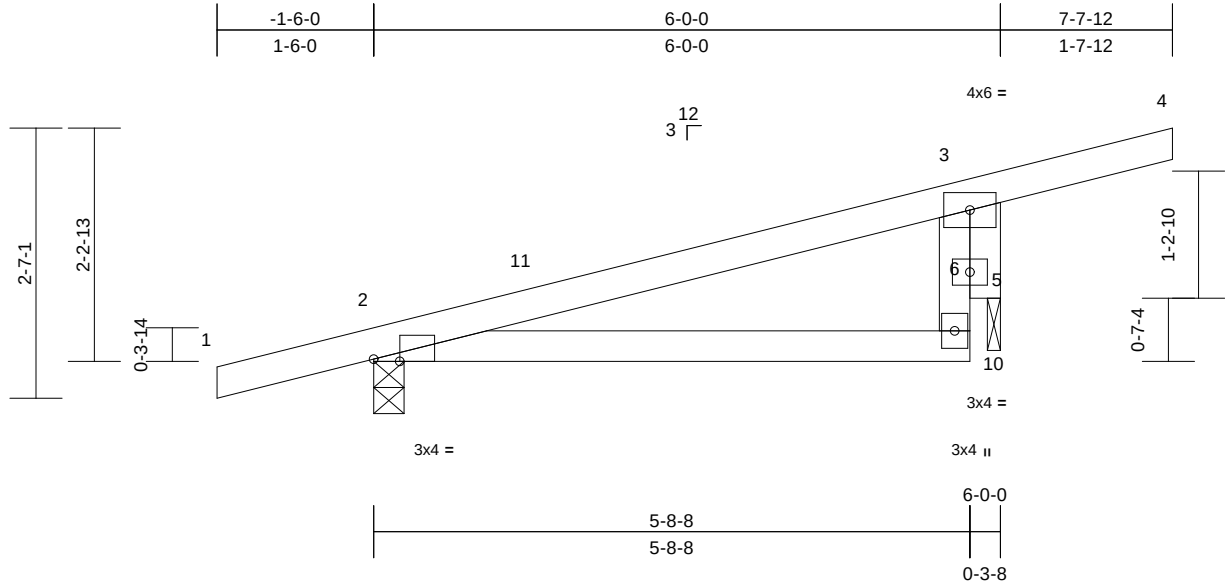
|                          |       |            |     |     |           |
|--------------------------|-------|------------|-----|-----|-----------|
| Job                      | Truss | Truss Type | Qty | Ply |           |
| 5554471                  | T05   | Monopitch  | 11  | 1   | T41943010 |
| Job Reference (optional) |       |            |     |     |           |

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Page: 1

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Scale = 1:22.1

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

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP                   |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.38 | Vert(LL) | 0.03  | 5-9    | >999 | 240    | MT20                   |
| TCDL        | 10.0  | Lumber DOL      | 1.25            | BC        | 0.23 | Vert(CT) | -0.04 | 5-9    | >999 | 180    | 244/190                |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.00 | Horz(CT) | 0.00  | 10     | n/a  | n/a    |                        |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MR |      |          |       |        |      |        | Weight: 26 lb FT = 20% |

#### LUMBER

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

#### BRACING

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

#### REACTIONS (size)

|                                          |
|------------------------------------------|
| 2=0-3-8, 10=0-1-8                        |
| Max Horiz 2=90 (LC 8)                    |
| Max Uplift 2=-182 (LC 8), 10=-171 (LC 8) |
| Max Grav 2=324 (LC 1), 10=336 (LC 1)     |

#### FORCES

(lb) - Maximum Compression/Maximum Tension

|           |                                                            |
|-----------|------------------------------------------------------------|
| TOP CHORD | 1-2=0/22, 2-3=-197/108, 3-4=-30/0, 5-6=-78/117, 3-6=-97/61 |
| BOT CHORD | 2-5=-167/175                                               |
| WEBS      | 3-10=-263/310                                              |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-7-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 2 and 171 lb uplift at joint 10.

LOAD CASE(S) Standard

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Chesterfield, MO 63017  
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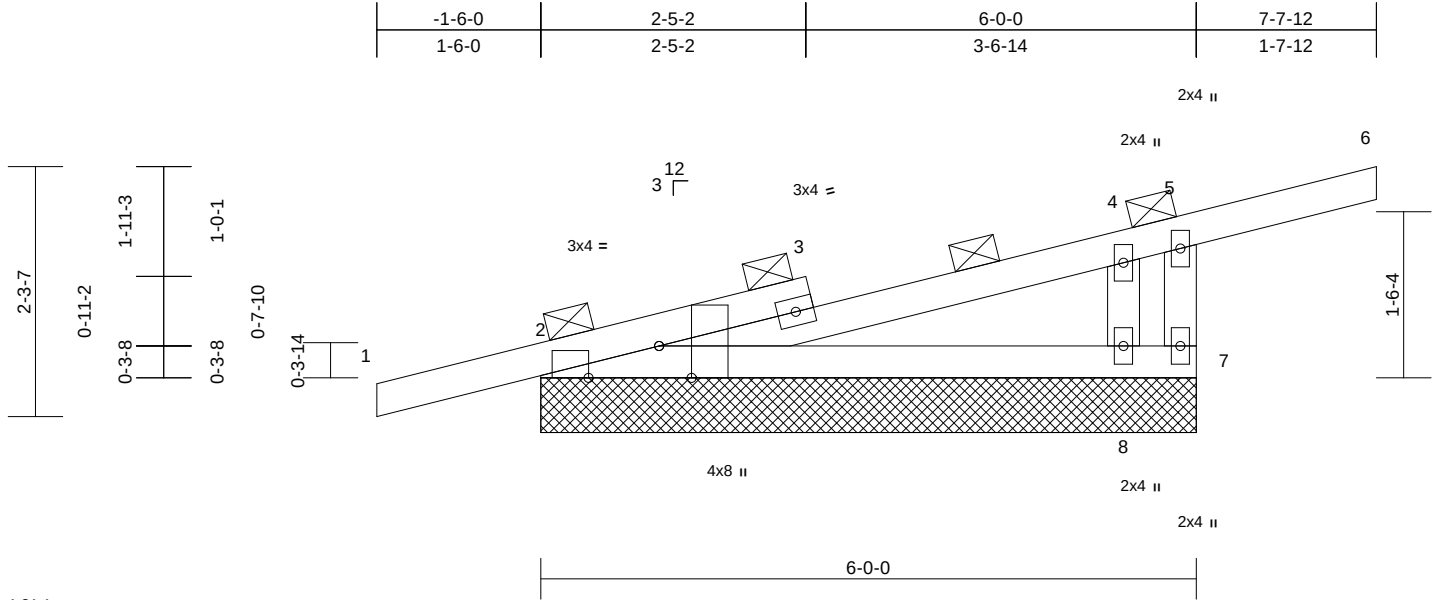
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|                          |       |                           |     |     |           |
|--------------------------|-------|---------------------------|-----|-----|-----------|
| Job                      | Truss | Truss Type                | Qty | Ply |           |
| 5554471                  | T05G  | Monopitch Supported Gable | 2   | 1   | T41943011 |
| Job Reference (optional) |       |                           |     |     |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:21.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-7-12,Edge]

| Loading                | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d | PLATES | GRIP    |
|------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof)            | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.35 | Vert(LL) | n/a   | -      | n/a | 999    | MT20    |
| TCDL                   | 10.0  | Lumber DOL      | 1.25            | BC        | 0.25 | Vert(CT) | n/a   | -      | n/a | 999    | 244/190 |
| BCLL                   | 0.0*  | Rep Stress Incr | NO              | WB        | 0.06 | Horz(CT) | 0.00  | 2      | n/a | n/a    |         |
| BCDL                   | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MP |      |          |       |        |     |        |         |
| Weight: 28 lb FT = 20% |       |                 |                 |           |      |          |       |        |     |        |         |

#### LUMBER

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

#### BRACING

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

#### REACTIONS

|            |                                              |
|------------|----------------------------------------------|
| (size)     | 2=6-0-0, 7=6-0-0, 8=6-0-0                    |
| Max Horiz  | 2=79 (LC 8)                                  |
| Max Uplift | 2=-121 (LC 8), 7=-215 (LC 3), 8=-118 (LC 12) |
| Max Grav   | 2=276 (LC 1), 7=-6 (LC 15), 8=484 (LC 1)     |

#### FORCES

|                                            |                                                          |
|--------------------------------------------|----------------------------------------------------------|
| (lb) - Maximum Compression/Maximum Tension |                                                          |
| TOP CHORD                                  | 1-2=0/22, 2-4=-140/38, 4-5=-92/0, 5-6=-26/0, 5-7=-94/360 |
| BOT CHORD                                  | 2-8=-4/19, 7-8=0/0                                       |
| WEBS                                       | 4-8=-268/187                                             |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 2, 215 lb uplift at joint 7, 118 lb uplift at joint 8 and 121 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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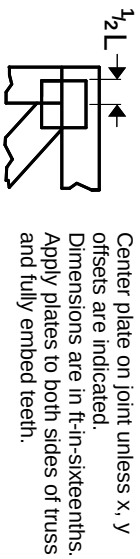
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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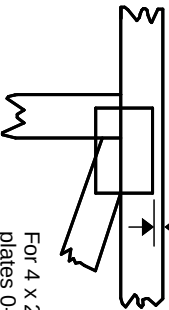
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## Symbols

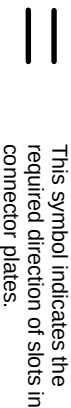
### PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

### PLATE SIZE

4 X 4

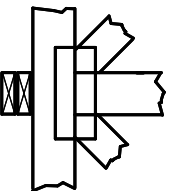
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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.

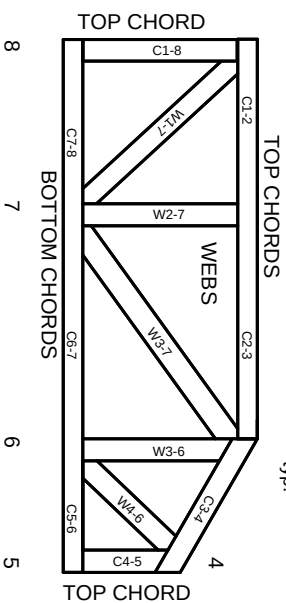
### Industry Standards:

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



1 2 3 Joint ID typ.



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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MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

## 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.