

RE: 5583781  
5583781\_415 SOUTHWEST DREW FEAGLE AVE

MiTek, Inc.  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

## Site Information:

Customer: BAUMGARDNER DBA BHL FEDERAL Project Name: 5583781  
Lot/Block: . Model: HRRP-3-2 WIDE  
Address: 415 SOUTHWEST DREW FEAGLE AVE Subdivision: FORT WHITE  
City: FORT WHITE State: FL

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

Design Code: FBC2023/TPI2014  
Wind Code: ASCE 7-22  
Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.8  
Wind Speed: 160 mph  
Floor Load: N/A psf

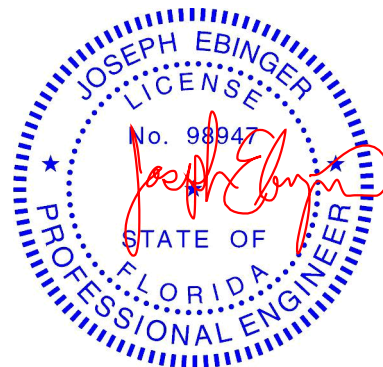
This package includes 9 individual, dated Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal#     | Truss Name | Date       |
|-----|-----------|------------|------------|
| 1   | T38905174 | A1         | 10/20/2025 |
| 2   | T38905175 | A2         | 10/20/2025 |
| 3   | T38905176 | A3         | 10/20/2025 |
| 4   | T38905177 | A4         | 10/20/2025 |
| 5   | T38905178 | B1         | 10/20/2025 |
| 6   | T38905179 | B2         | 10/20/2025 |
| 7   | T38905180 | V1         | 10/20/2025 |
| 8   | T38905181 | V2         | 10/20/2025 |
| 9   | T38905182 | V3         | 10/20/2025 |



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 (Plant City, FL).  
Truss Design Engineer's Name: Ebinger, Joseph  
My license renewal date for the state of Florida is February 28, 2027.  
Florida COA: 6634

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



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20, 2025

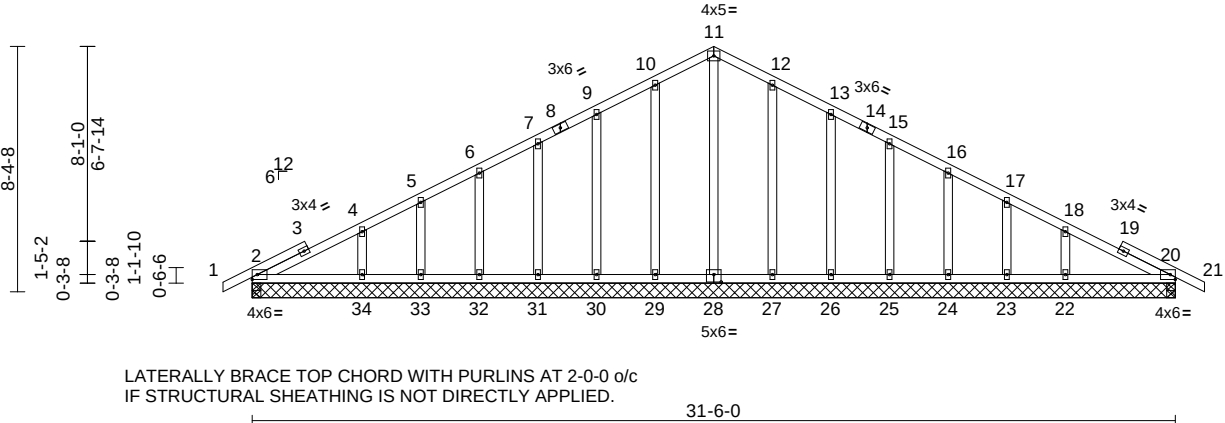
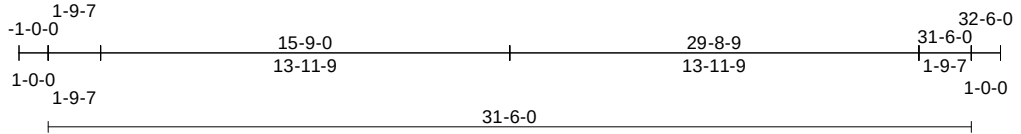
|         |       |                        |     |     |                                                    |
|---------|-------|------------------------|-----|-----|----------------------------------------------------|
| Job     | Truss | Truss Type             | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE<br>T38905174 |
| 5583781 | A1    | Common Supported Gable | 2   | 1   | Job Reference (optional)                           |

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Sun Oct 19 07:59:05

Page: 1

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LATERALLY BRACE TOP CHORD WITH PURLINS AT 2'-0" o/c  
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.

Scale = 1:78.6

Plate Offsets (X, Y): [28:0-3-0,0-3-0]

| Loading                 | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d  | PLATES | GRIP    |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof)             | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.14 | Vert(LL) | 0.01  | 34-37  | >999 | 240    | 244/190 |
| TCDL                    | 15.0  | Lumber DOL      | 1.25            | BC        | 0.09 | Vert(CT) | -0.01 | 34-37  | >999 | 240    |         |
| BCLL                    | 0.0*  | Rep Stress Incr | NO              | WB        | 0.20 | Horz(CT) | 0.01  | 20     | n/a  | n/a    |         |
| BCDL                    | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      |          |       |        |      |        |         |
| Weight: 192 lb FT = 20% |       |                 |                 |           |      |          |       |        |      |        |         |

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

**BRACING**  
TOP CHORD Sheathed.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size)  
2=31-6-0, 20=31-6-0, 22=31-6-0,  
23=31-6-0, 24=31-6-0, 25=31-6-0,  
26=31-6-0, 27=31-6-0, 28=31-6-0,  
29=31-6-0, 30=31-6-0, 31=31-6-0,  
32=31-6-0, 33=31-6-0, 34=31-6-0  
Max Horiz 2=203 (LC 12)  
Max Uplift 2=-53 (LC 13), 20=-38 (LC 13),  
22=-159 (LC 13), 23=-76 (LC 13),  
24=-104 (LC 13), 25=-96 (LC 13),  
26=-103 (LC 13), 27=-91 (LC 13),  
29=-94 (LC 12), 30=-101 (LC 12),  
31=-96 (LC 12), 32=-104 (LC 12),  
33=-76 (LC 12), 34=-159 (LC 12)  
Max Grav 2=239 (LC 1), 20=239 (LC 1),  
22=296 (LC 1), 23=138 (LC 1),  
24=190 (LC 1), 25=178 (LC 26),  
26=180 (LC 1), 27=187 (LC 26),  
28=226 (LC 22), 29=187 (LC 25),  
30=180 (LC 1), 31=178 (LC 25),  
32=190 (LC 1), 33=138 (LC 1),  
34=296 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/36, 2-4=-226/108, 4-5=-148/118,  
5-6=-102/146, 6-7=-76/184, 7-9=-79/221,  
9-10=-100/264, 10-11=-120/326,  
11-12=-120/326, 12-13=-100/264,  
13-15=-79/194, 15-16=-59/127,  
16-17=-45/60, 17-18=-75/31, 18-20=-141/59,  
20-21=0/36

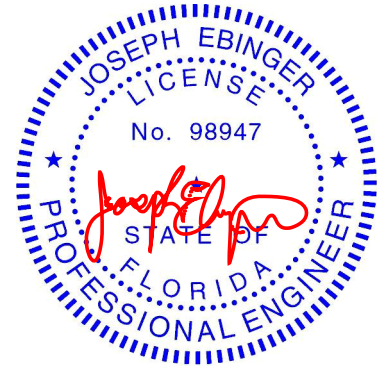
**BOT CHORD** 2-34=-41/190, 33-34=-41/190,  
32-33=-41/190, 31-32=-41/190,  
30-31=-41/190, 29-30=-41/190,  
27-29=-41/190, 26-27=-41/190,  
25-26=-41/190, 24-25=-41/190,  
23-24=-41/190, 22-23=-41/190,  
20-22=-41/190  
**WEBS** 11-28=-186/23, 10-29=-147/118,  
9-30=-140/133, 7-31=-139/125,  
6-32=-146/132, 5-33=-115/112,  
4-34=-217/180, 12-27=-147/116,  
13-26=-140/133, 15-25=-139/125,  
16-24=-146/132, 17-23=-115/112,  
18-22=-217/179

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 studs spaced at 2'-0" o/c.
- 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 53 lb uplift at joint 2, 38 lb uplift at joint 20, 94 lb uplift at joint 29, 101 lb uplift at joint 30, 96 lb uplift at joint 31, 104 lb uplift at joint 32, 76 lb uplift at joint 33, 159 lb uplift at joint 34, 91 lb uplift at joint 27, 103 lb uplift at joint 26, 96 lb uplift at joint 25, 104 lb uplift at joint 24, 76 lb uplift at joint 23, 159 lb uplift at joint 22, 53 lb uplift at joint 2 and 38 lb uplift at joint 20.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

**MiTek®**

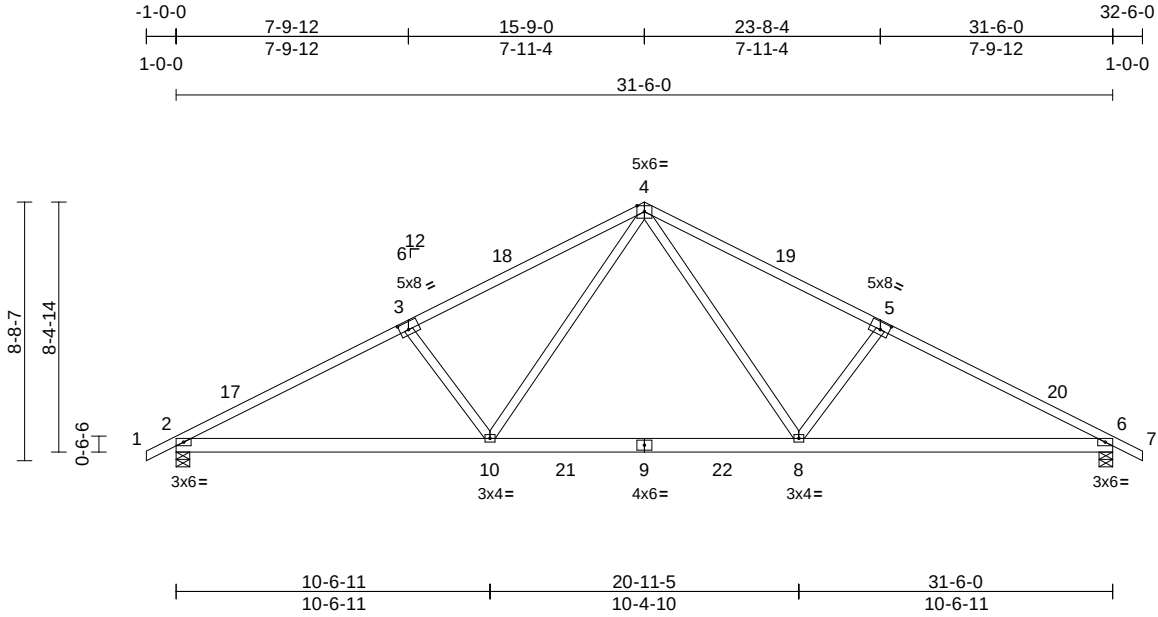
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

|         |       |            |     |     |                                                    |
|---------|-------|------------|-----|-----|----------------------------------------------------|
| Job     | Truss | Truss Type | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE<br>T38905175 |
| 5583781 | A2    | Common     | 9   | 1   | Job Reference (optional)                           |

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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Page: 1



Scale = 1:77.5

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

| 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        | 0.73 | Vert(LL) | -0.18 | 8-10  | >999   | 360 | MT20           | 244/190  |
| TCDL        | 15.0  | Lumber DOL      | 1.25            | BC        | 0.65 | Vert(CT) | -0.32 | 8-10  | >999   | 240 |                |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.51 | Horz(CT) | 0.06  | 6     | n/a    | n/a |                |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      | Wind(LL) | 0.12  | 10-13 | >999   | 240 | Weight: 171 lb | FT = 20% |

#### LUMBER

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

#### BRACING

TOP CHORD Sheathed.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS

(size) 2=0-5-8, 6=0-5-8  
Max Horiz 2=212 (LC 12)  
Max Uplift 2=-456 (LC 12), 6=-456 (LC 13)  
Max Grav 2=1596 (LC 2), 6=1596 (LC 2)

#### FORCES

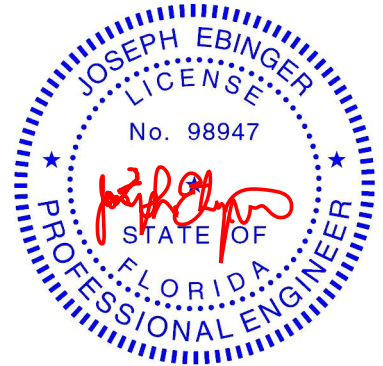
(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/31, 2-4=-2664/726, 4-6=-2664/726, 6-7=0/31  
BOT CHORD 2-10=-705/2304, 8-10=-273/1534, 6-8=-494/2304  
WEBS 4-10=-320/973, 3-10=-535/460, 4-8=-320/973, 5-8=-535/460

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-0 to 2-1-13, Zone1 2-1-13 to 15-9-0, Zone2 15-9-0 to 20-2-7, Zone1 20-2-7 to 32-6-0 zone;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 456 lb uplift at joint 2 and 456 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

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

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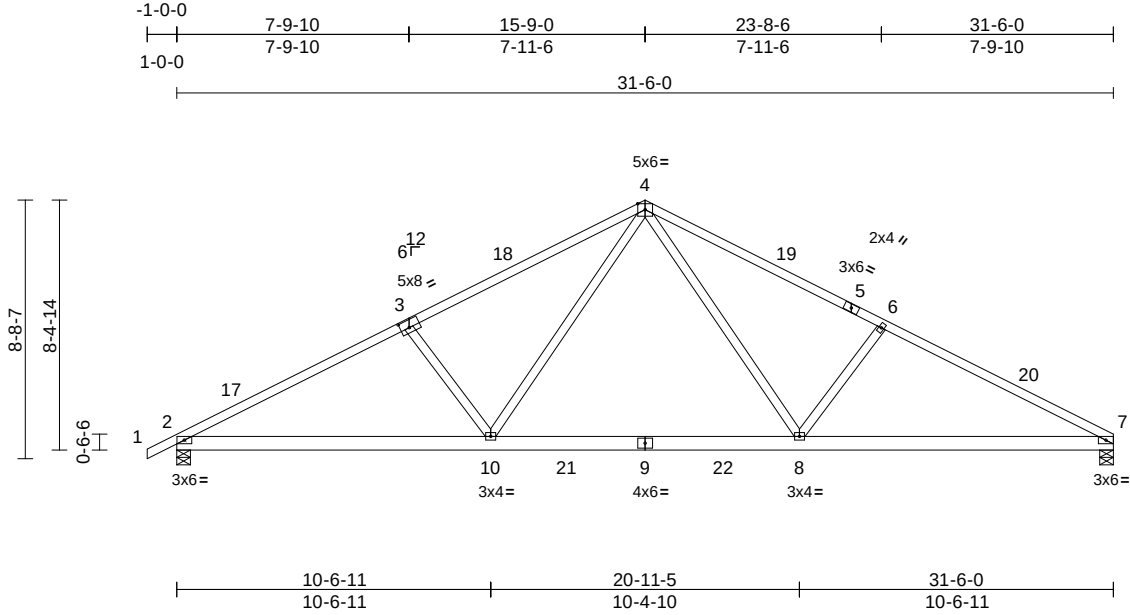
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|                          |       |            |     |     |                                       |
|--------------------------|-------|------------|-----|-----|---------------------------------------|
| Job                      | Truss | Truss Type | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE |
| 5583781                  | A3    | Common     | 9   | 1   | T38905176                             |
| Job Reference (optional) |       |            |     |     |                                       |

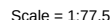
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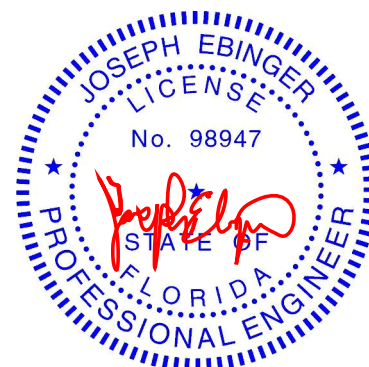
Builders FirstSource (Plant City, FL), Plant City, FL - 33567, Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Sun Oct 19 07:59:07 Page: 1  
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|                |       |                 |                 |            |      |             |       |       |        |     |                |             |
|----------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|----------------|-------------|
| <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         | 0.75 | Vert(LL)    | -0.29 | 12-13 | >999   | 360 | MT20           | 244/190     |
| TCDL           | 15.0  | Lumber DOL      | 1.25            | BC         | 0.93 | Vert(CT)    | -0.61 | 12-13 | >624   | 240 |                |             |
| BCLL           | 0.0 * | Rep Stress Incr | YES             | WB         | 0.70 | Horz(CT)    | 0.32  | 9     | n/a    | n/a |                |             |
| BCDL           | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS  |      | Wind(LL)    | 0.29  | 12-13 | >999   | 240 | Weight: 188 lb | FT = 20%    |

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 456 lb uplift at joint 2 and 456 lb uplift at joint 9.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20.2025

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

**WARNING – verify design parameters and READ NOTES ON THIS AND INCLUDED REFERRED REFERENCE PAGE MP14743 rev. 12/2023 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 D5B-22** available from Truss Plate Institute ([www.tpiinst.org](http://www.tpiinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

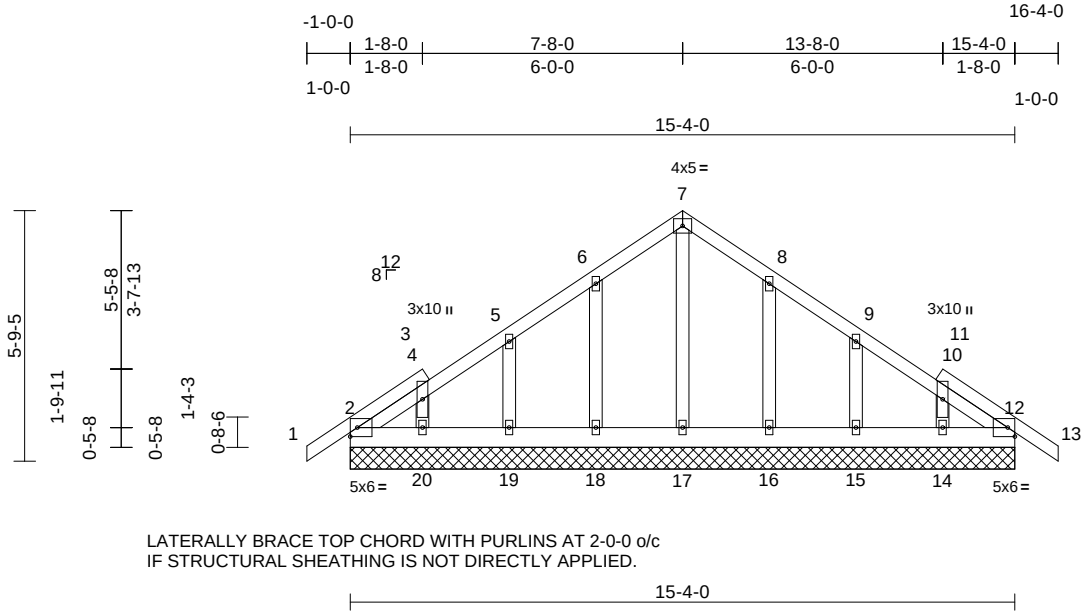
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16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

|         |       |                        |     |     |                                                    |
|---------|-------|------------------------|-----|-----|----------------------------------------------------|
| Job     | Truss | Truss Type             | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE<br>T38905178 |
| 5583781 | B1    | Common Supported Gable | 1   | 1   | Job Reference (optional)                           |

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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Page: 1



LATERALLY BRACE TOP CHORD WITH PURLINS AT 2'-0" o/c  
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.

Scale = 1:53.2

| Loading     | (psf) | Spacing         | 2'-0"           | CSI       | DEFL | in       | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.10 | n/a      | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL        | 15.0  | Lumber DOL      | 1.25            | BC        | 0.03 | n/a      | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | NO              | WB        | 0.06 | Horz(CT) | 0.00  | 12     | n/a |               |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      |          |       |        |     | Weight: 98 lb | FT = 20% |

#### LUMBER

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

#### BRACING

TOP CHORD Sheathed.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS

(size) 2=15'-4-0, 12=15'-4-0, 14=15'-4-0,  
15=15'-4-0, 16=15'-4-0, 17=15'-4-0,  
18=15'-4-0, 19=15'-4-0, 20=15'-4-0  
Max Horiz 2=203 (LC 11)  
Max Uplift 2=-43 (LC 8), 12=-14 (LC 9),  
14=-118 (LC 13), 15=-113 (LC 13),  
16=-125 (LC 13), 18=-127 (LC 12),  
19=-110 (LC 12), 20=-120 (LC 12)  
Max Grav 2=159 (LC 20), 12=159 (LC 1),  
14=192 (LC 20), 15=201 (LC 20),  
16=214 (LC 20), 17=172 (LC 22),  
18=216 (LC 19), 19=198 (LC 19),  
20=195 (LC 19)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension

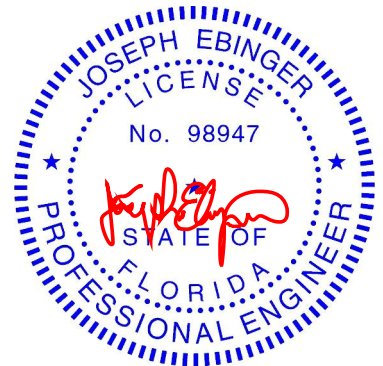
TOP CHORD 1-2=0/39, 2-3=-165/131, 3-5=-115/110,  
5-6=-106/101, 6-7=-109/176, 7-8=-109/176,  
8-9=-65/76, 9-11=-80/56, 11-12=-130/80,  
12-13=0/39  
BOT CHORD 2-20=-102/176, 19-20=-73/176,  
18-19=-73/176, 17-18=-73/176,  
16-17=-73/176, 15-16=-73/176,  
14-15=-73/176, 12-14=-73/176  
WEBS 7-17=-131/0, 6-18=-176/157, 5-19=-159/156,  
3-20=-149/135, 8-16=-174/157,  
9-15=-161/157, 11-14=-151/135

#### NOTES

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

- Wind: ASCE 7-22; Vult=160mph (3-second gust)  
Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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" 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 43 lb uplift at joint  
2, 14 lb uplift at joint 12, 127 lb uplift at joint 18, 110 lb  
uplift at joint 19, 120 lb uplift at joint 20, 125 lb uplift at  
joint 16, 113 lb uplift at joint 15, 118 lb uplift at joint 14,  
43 lb uplift at joint 2 and 14 lb uplift at joint 12.
- Beveled plate or shim required to provide full bearing  
surface with truss chord at joint(s) 12.
- This truss design requires that a minimum of 7/16"  
structural wood sheathing be applied directly to the top  
chord and 1/2" gypsum sheetrock be applied directly to  
the bottom chord.

LOAD CASE(S) Standard



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

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

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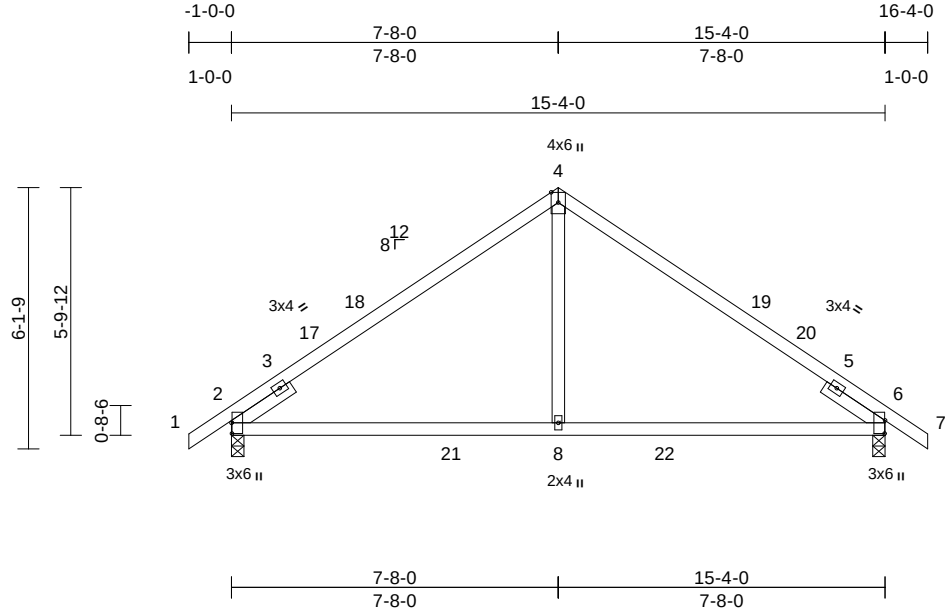
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|                |             |                      |          |          |                                                                                |
|----------------|-------------|----------------------|----------|----------|--------------------------------------------------------------------------------|
| Job<br>5583781 | Truss<br>B2 | Truss Type<br>Common | Qty<br>3 | Ply<br>1 | 5583781_415 SOUTHWEST DREW FEAGLE AVE<br>T38905179<br>Job Reference (optional) |
|----------------|-------------|----------------------|----------|----------|--------------------------------------------------------------------------------|

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Page: 1



Scale = 1:54.1

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

| 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        | 0.63 | Vert(LL) | 0.19  | 8-11  | >964   | 240 | MT20          | 244/190  |
| TCDL        | 15.0  | Lumber DOL      | 1.25            | BC        | 0.66 | Vert(CT) | -0.18 | 8-15  | >999   | 240 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.12 | Horz(CT) | -0.04 | 2     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      |          |       |       |        |     | Weight: 67 lb | FT = 20% |

#### LUMBER

|           |                                                       |
|-----------|-------------------------------------------------------|
| TOP CHORD | 2x4 SP No.2                                           |
| BOT CHORD | 2x4 SP No.2                                           |
| WEBS      | 2x4 SP No.2                                           |
| SLIDER    | Left 2x4 SP No.2 -- 1-8-0, Right 2x4 SP No.2 -- 1-8-0 |

#### BRACING

|           |                                 |
|-----------|---------------------------------|
| TOP CHORD | Sheathed.                       |
| BOT CHORD | Rigid ceiling directly applied. |

#### REACTIONS

|            |                                |
|------------|--------------------------------|
| (size)     | 2=0-3-8, 6=0-3-8               |
| Max Horiz  | 2=216 (LC 11)                  |
| Max Uplift | 2=-230 (LC 12), 6=-230 (LC 13) |
| Max Grav   | 2=826 (LC 2), 6=826 (LC 2)     |

#### FORCES

(lb) - Maximum Compression/Maximum Tension

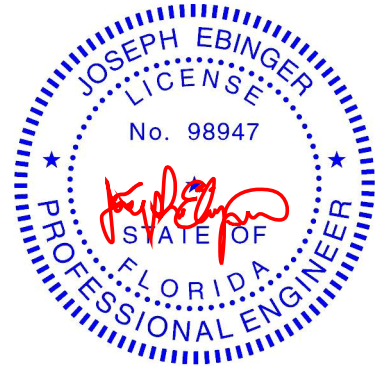
|           |                                                |
|-----------|------------------------------------------------|
| TOP CHORD | 1-2=0/39, 2-4=-858/506, 4-6=-858/506, 6-7=0/39 |
| BOT CHORD | 2-8=-392/639, 6-8=-274/639                     |
| WEBS      | 4-8=-225/430                                   |

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-0-0 to 2-1-13, Zone1 2-1-13 to 7-8-0, Zone2 7-8-0 to 12-1-7, Zone1 12-1-7 to 16-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 230 lb uplift at joint 2 and 230 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Joseph Ebinger PE No. 98947  
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16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

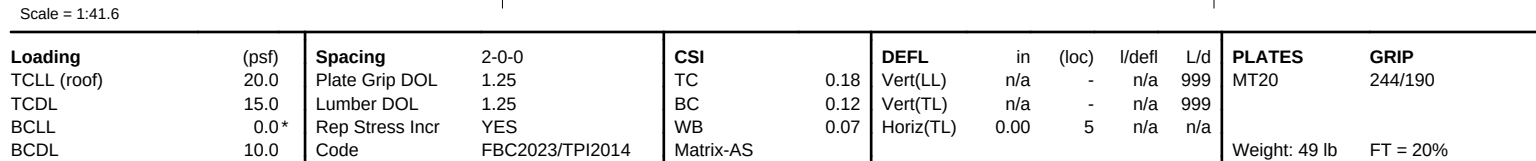
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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ID: XGBa2tSESBdOx0viHn HFyfjOp-RfC?PsB70Hq3NSaPqnL8w3uITXbGKWrcDai7J4zJC?f



- 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4'-0" oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 8 lb uplift at joint 5, 4 lb uplift at joint 7, 223 lb uplift at joint 8 and 220 lb uplift at joint 6.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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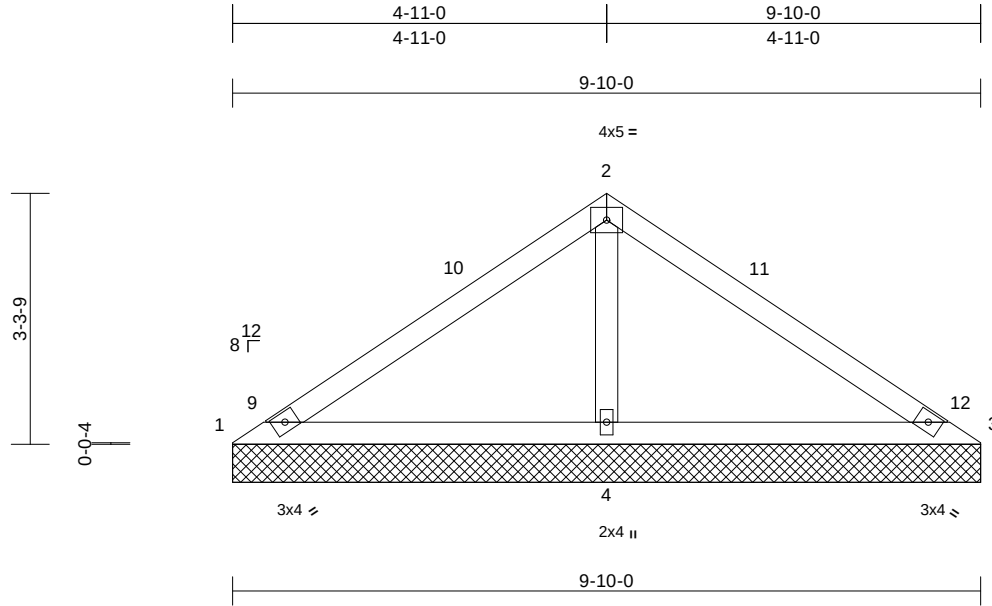
|                          |       |            |     |     |                                       |
|--------------------------|-------|------------|-----|-----|---------------------------------------|
| Job                      | Truss | Truss Type | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE |
| 5583781                  | V2    | Valley     | 1   | 1   | T38905181                             |
| Job Reference (optional) |       |            |     |     |                                       |

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Scale = 1:30.3

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       |      | DEFL      | in   | (loc) | l/defl | L/d | PLATES        | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.26 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL        | 15.0  | Lumber DOL      | 1.25            | BC        | 0.25 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.11 | Horiz(TL) | 0.00 | 4     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      |           |      |       |        |     | Weight: 35 lb | FT = 20% |

#### LUMBER

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

#### BRACING

TOP CHORD Sheathed.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS

(size) 1=9-10-0, 3=9-10-0, 4=9-10-0  
Max Horiz 1=117 (LC 9)  
Max Uplift 1=-12 (LC 26), 3=-32 (LC 8),  
4=-246 (LC 12)  
Max Grav 1=86 (LC 25), 3=86 (LC 26), 4=789  
(LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension

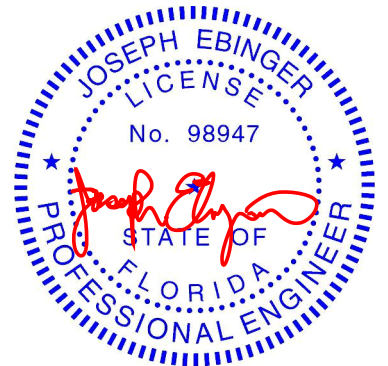
TOP CHORD 1-2=-185/358, 2-3=-190/352  
BOT CHORD 1-4=-279/267, 3-4=-279/267  
WEBS 2-4=-618/430

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust)  
Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-2-3, Zone1 3-2-3 to 4-11-6, Zone2 4-11-6 to 9-4-13, Zone1 9-4-13 to 9-10-6 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 4-0-0 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 12 lb uplift at joint 1, 32 lb uplift at joint 3 and 246 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

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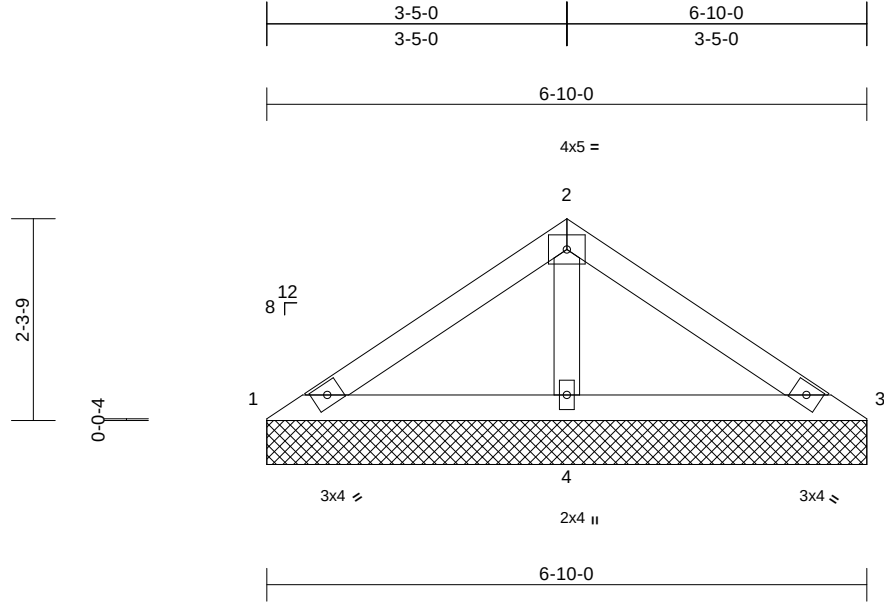
|         |       |            |     |     |                                                    |
|---------|-------|------------|-----|-----|----------------------------------------------------|
| Job     | Truss | Truss Type | Qty | Ply | 5583781_415 SOUTHWEST DREW FEAGLE AVE<br>T38905182 |
| 5583781 | V3    | Valley     | 1   | 1   | Job Reference (optional)                           |

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Scale = 1:26.2

| 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        | 0.14 | Vert(LL)  | n/a  | -     | n/a    | 999 | MT20          | 244/190  |
| TCDL        | 15.0  | Lumber DOL      | 1.25            | BC        | 0.20 | Vert(TL)  | n/a  | -     | n/a    | 999 |               |          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.06 | Horiz(TL) | 0.00 | 3     | n/a    | n/a |               |          |
| BCDL        | 10.0  | Code            | FBC2023/TPI2014 | Matrix-AS |      |           |      |       |        |     | Weight: 23 lb | FT = 20% |

#### LUMBER

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

#### BRACING

TOP CHORD Sheathed.  
BOT CHORD Rigid ceiling directly applied.

**REACTIONS** (size) 1=6-10-0, 3=6-10-0, 4=6-10-0  
Max Horiz 1=79 (LC 9)  
Max Uplift 1=-10 (LC 12), 3=-24 (LC 13),  
4=-155 (LC 12)  
Max Grav 1=76 (LC 25), 3=76 (LC 26), 4=508  
(LC 1)

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

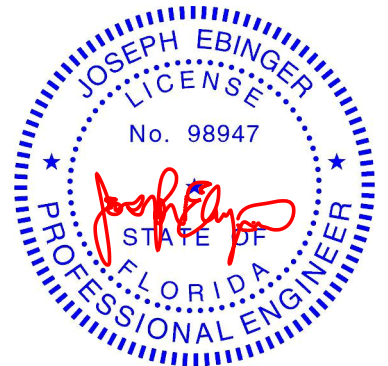
TOP CHORD 1-2=-151/214, 2-3=-151/208  
BOT CHORD 1-4=-195/247, 3-4=-195/247  
WEBS 2-4=-357/344

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust)  
Vasd=124mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; 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 4-0-0 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 10 lb uplift at joint 1, 24 lb uplift at joint 3 and 155 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard



Joseph Ebinger PE No. 98947  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Road, Chesterfield, MO 63017  
Date:

October 20,2025

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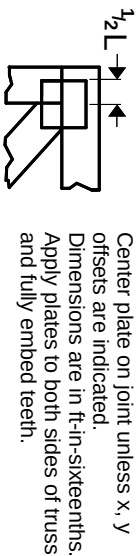
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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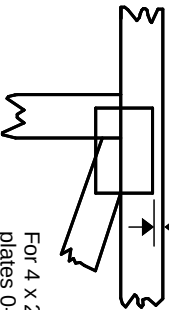
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# Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{3}{16}$ " from outside edge of truss.

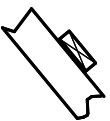
—  
This symbol indicates the required direction of slots in connector plates.

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

## PLATE SIZE

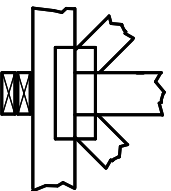
4 X 4  
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

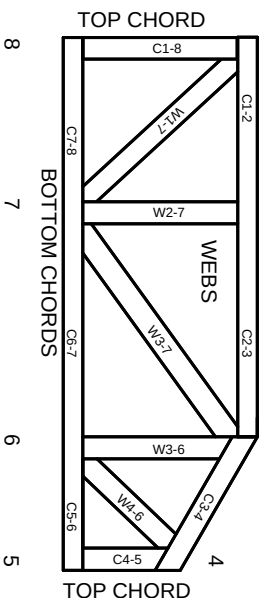
### Industry Standards:

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®

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.

