



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

RE: 4190707 - LANDER RES.

**MiTek, Inc.**

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

**Site Information:**

Customer Info: STROUBE LANDER Project Name: Lander Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: 144 SW Beacon Way, N/A  
City: Columbia Cty State: FL

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

Name: License #:  
Address: State:  
City:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7  
Wind Code: ASCE 7-22 Wind Speed: 120 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 54 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    | No. | Seal#     | Truss Name | Date    |
|-----|-----------|------------|---------|-----|-----------|------------|---------|
| 1   | T35158253 | CJ01       | 10/2/24 | 15  | T35158267 | T03        | 10/2/24 |
| 2   | T35158254 | CJ03       | 10/2/24 | 16  | T35158268 | T04        | 10/2/24 |
| 3   | T35158255 | CJ03A      | 10/2/24 | 17  | T35158269 | T05        | 10/2/24 |
| 4   | T35158256 | CJ05       | 10/2/24 | 18  | T35158270 | T06        | 10/2/24 |
| 5   | T35158257 | CJ05A      | 10/2/24 | 19  | T35158271 | T07        | 10/2/24 |
| 6   | T35158258 | EJ01       | 10/2/24 | 20  | T35158272 | T08        | 10/2/24 |
| 7   | T35158259 | EJ02       | 10/2/24 | 21  | T35158273 | T09        | 10/2/24 |
| 8   | T35158260 | EJ03       | 10/2/24 | 22  | T35158274 | T10        | 10/2/24 |
| 9   | T35158261 | EJ04       | 10/2/24 | 23  | T35158275 | T11        | 10/2/24 |
| 10  | T35158262 | HJ05       | 10/2/24 | 24  | T35158276 | T12        | 10/2/24 |
| 11  | T35158263 | HJ08       | 10/2/24 | 25  | T35158277 | T13        | 10/2/24 |
| 12  | T35158264 | HJ10       | 10/2/24 | 26  | T35158278 | T14        | 10/2/24 |
| 13  | T35158265 | T01        | 10/2/24 | 27  | T35158279 | T15        | 10/2/24 |
| 14  | T35158266 | T02        | 10/2/24 | 28  | T35158280 | T16        | 10/2/24 |



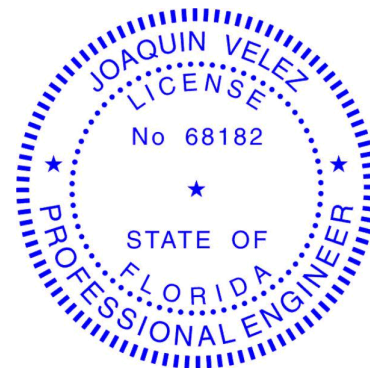
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The truss drawing(s) referenced above have been prepared by  
MiTek USA, Inc. under my direct supervision based on the parameters  
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025.



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

**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.

October 2,2024

Velez, Joaquin

1 of 2



RE: 4190707 - LANDER RES.

**MiTek, Inc.**

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

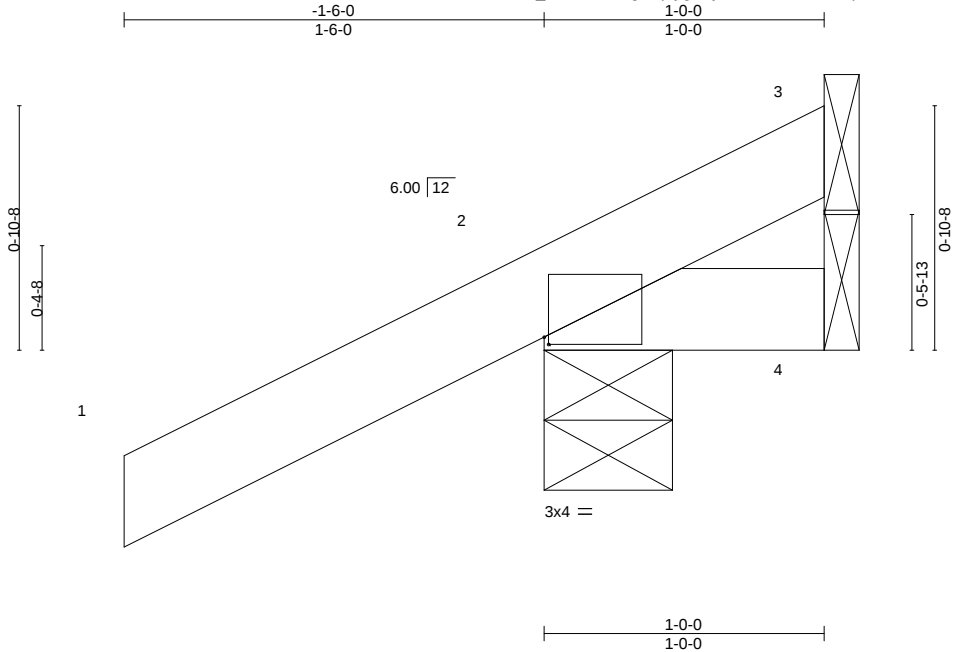
**Site Information:**

Customer Info: STROUBE LANDER    Project Name: Lander Res.    Model: Custom  
Lot/Block: N/A    Subdivision: N/A  
Address: 144 SW Beacon Way, N/A  
City: Columbia Cty    State: FL

| No. | Seal#     | Truss Name | Date    |
|-----|-----------|------------|---------|
| 29  | T35158281 | T17        | 10/2/24 |
| 30  | T35158282 | T18        | 10/2/24 |
| 31  | T35158283 | T19        | 10/2/24 |
| 32  | T35158284 | T20        | 10/2/24 |
| 33  | T35158285 | T21        | 10/2/24 |
| 34  | T35158286 | T22        | 10/2/24 |
| 35  | T35158287 | T23        | 10/2/24 |
| 36  | T35158288 | T24        | 10/2/24 |
| 37  | T35158289 | T25        | 10/2/24 |
| 38  | T35158290 | T26        | 10/2/24 |
| 39  | T35158291 | T27        | 10/2/24 |
| 40  | T35158292 | T28        | 10/2/24 |
| 41  | T35158293 | T29        | 10/2/24 |
| 42  | T35158294 | T30        | 10/2/24 |
| 43  | T35158295 | T31        | 10/2/24 |
| 44  | T35158296 | T32        | 10/2/24 |
| 45  | T35158297 | T33        | 10/2/24 |
| 46  | T35158298 | T34        | 10/2/24 |
| 47  | T35158299 | T35        | 10/2/24 |
| 48  | T35158300 | T36        | 10/2/24 |
| 49  | T35158301 | V01        | 10/2/24 |
| 50  | T35158302 | V02        | 10/2/24 |
| 51  | T35158303 | V03        | 10/2/24 |
| 52  | T35158304 | V04        | 10/2/24 |
| 53  | T35158305 | V05        | 10/2/24 |
| 54  | T35158306 | V06        | 10/2/24 |

|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158253 |
| 4190707 | CJ01  | Jack-Open  | 20  | 1   | Job Reference (optional) |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:05 2024 Page 1  
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Scale = 1:8.2

|                       |                      |       |           |          |          |        |     |              |          |
|-----------------------|----------------------|-------|-----------|----------|----------|--------|-----|--------------|----------|
| Plate Offsets (X,Y)-- | [2:0-0-3,0-0-5]      |       |           |          |          |        |     |              |          |
| LOADING (psf)         | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc) | l/defl | L/d | PLATES       | GRIP     |
| TCLL 20.0             | Plate Grip DOL       | 1.25  | TC 0.21   | Vert(LL) | 0.00 7   | >999   | 240 | MT20         | 244/190  |
| TCDL 10.0             | Lumber DOL           | 1.25  | BC 0.04   | Vert(CT) | 0.00 7   | >999   | 180 |              |          |
| BCLL 0.0 *            | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | 0.00 2   | n/a    | n/a |              |          |
| BCDL 10.0             | Code FBC2023/TPI2014 |       | Matrix-MP |          |          |        |     | Weight: 6 lb | FT = 20% |

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=48(LC 12)  
Max Uplift 3=-7(LC 1), 2=-89(LC 12), 4=-22(LC 1)  
Max Grav 3=8(LC 16), 2=198(LC 1), 4=19(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 3, 89 lb uplift at joint 2 and 22 lb uplift at joint 4.

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:

October 2,2024

**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®**

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

|         |       |            |     |     |             |           |
|---------|-------|------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158254 |
| 4190707 | CJ03  | Jack-Open  | 17  | 1   |             |           |

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Scale = 1:13.3

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.21   | Vert(LL) | 0.01 4-7  | >999   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.07   | Vert(CT) | -0.01 4-7 | >999   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | -0.00 3   | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MP |          |           |        |     | Weight: 12 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=90(LC 12)  
Max Uplift 3=-46(LC 12), 2=-80(LC 12), 4=-21(LC 9)  
Max Grav 3=66(LC 1), 2=230(LC 1), 4=50(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 80 lb uplift at joint 2 and 21 lb uplift at joint 4.

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:

October 2,2024

**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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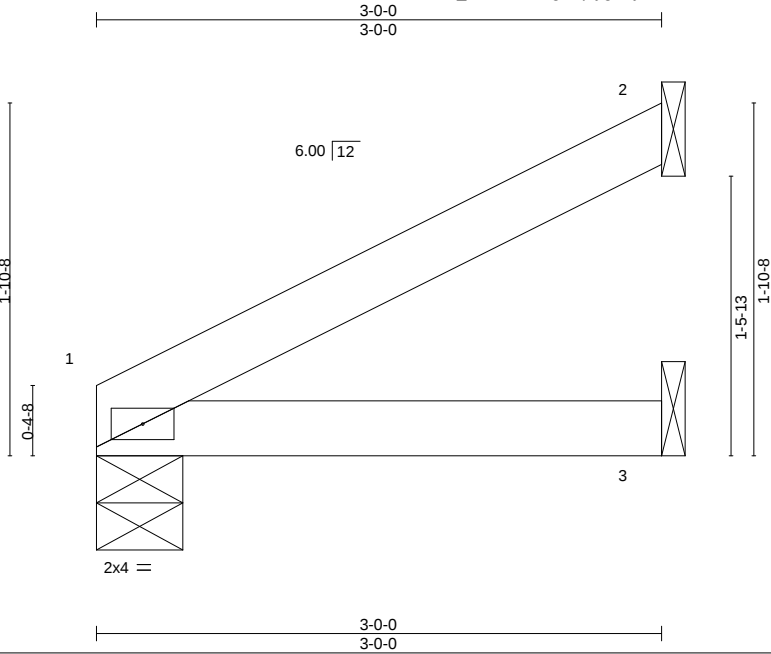
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Chesterfield, MO 63017  
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158255 |
| 4190707 | CJ03A | Jack-Open  | 3   | 1   | Job Reference (optional) |           |

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Scale = 1:12.2

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.12   | Vert(LL) | 0.01 3-6  | >999   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.11   | Vert(CT) | -0.01 3-6 | >999   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | -0.00 2   | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TP12014 |       | Matrix-MP |          |           |        |     | Weight: 10 lb | FT = 20% |

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

REACTIONS. (size) 1=0-5-8, 2=Mechanical, 3=Mechanical  
Max Horz 1=62(LC 12)  
Max Uplift 1=-36(LC 9), 2=-52(LC 12), 3=-24(LC 9)  
Max Grav 1=118(LC 1), 2=76(LC 1), 3=54(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 52 lb uplift at joint 2 and 24 lb uplift at joint 3.

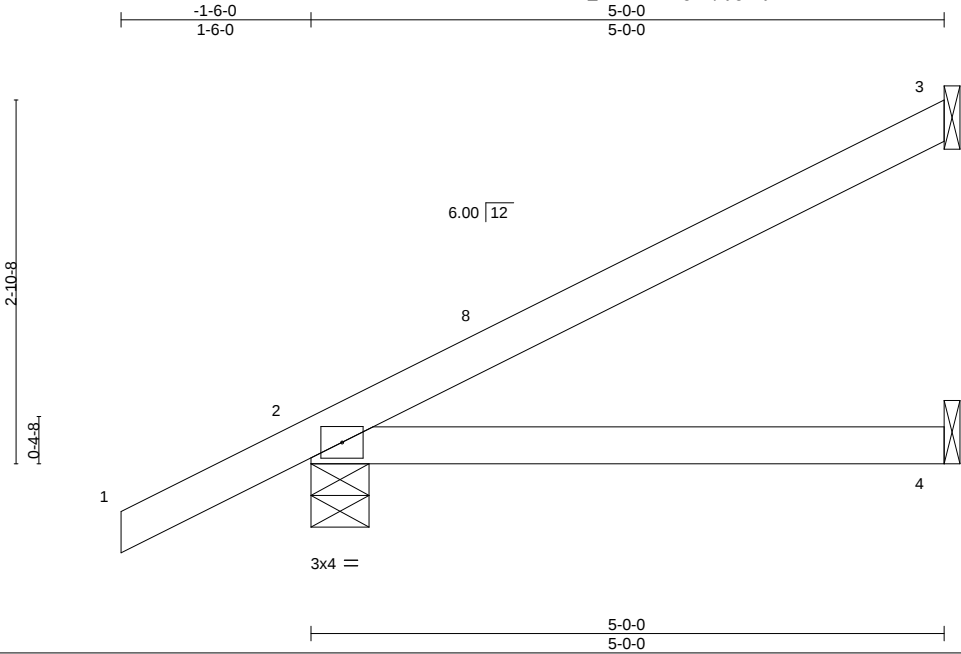
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Joaquin Velez PE No.68182  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

October 2,2024

|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158256 |
| 4190707 | CJ05  | Jack-Open  | 12  | 1   | Job Reference (optional) |           |

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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.37   | Vert(LL) | 0.07 4-7  | >906   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.27   | Vert(CT) | -0.06 4-7 | >999   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | -0.00 3   | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MP |          |           |        |     | Weight: 18 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=132(LC 12)  
Max Uplift 3=-86(LC 12), 2=-92(LC 12), 4=-38(LC 9)  
Max Grav 3=124(LC 1), 2=301(LC 1), 4=90(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 92 lb uplift at joint 2 and 38 lb uplift at joint 4.

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.

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MiTek Inc. DBA MiTek USA FL Cert 6634  
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Chesterfield, MO 63017  
Date:

October 2,2024

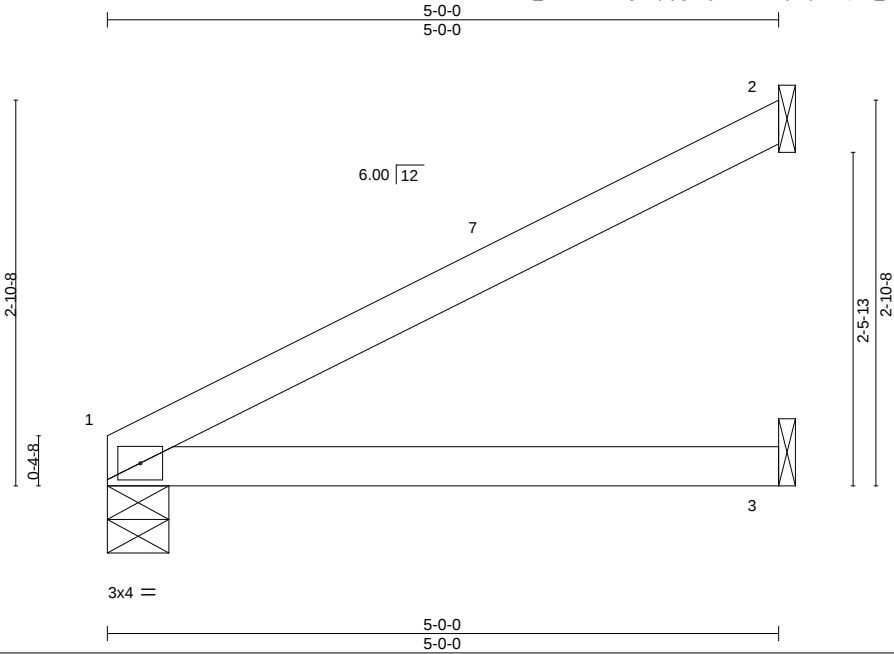
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158257 |
| 4190707 | CJ05A | Jack-Open  | 2   | 1   | Job Reference (optional) |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:07 2024 Page 1  
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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.39   | Vert(LL) | 0.07 3-6  | >804   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.30   | Vert(CT) | -0.07 3-6 | >911   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00   | Horz(CT) | -0.00 2   | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MP |          |           |        |     | Weight: 16 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=0-5-8, 2=Mechanical, 3=Mechanical  
Max Horz 1=105(LC 12)  
Max Uplift 1=-62(LC 9), 2=-90(LC 12), 3=-40(LC 9)  
Max Grav 1=198(LC 1), 2=131(LC 1), 3=92(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 4-11-4 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 90 lb uplift at joint 2 and 40 lb uplift at joint 3.

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.

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Date:

October 2,2024

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|                          |       |              |     |     |             |
|--------------------------|-------|--------------|-----|-----|-------------|
| Job                      | Truss | Truss Type   | Qty | Ply | LANDER RES. |
| 4190707                  | EJ01  | Jack-Partial | 31  | 1   | T35158258   |
| Job Reference (optional) |       |              |     |     |             |

Builders FirstSource (Lake City,FL),

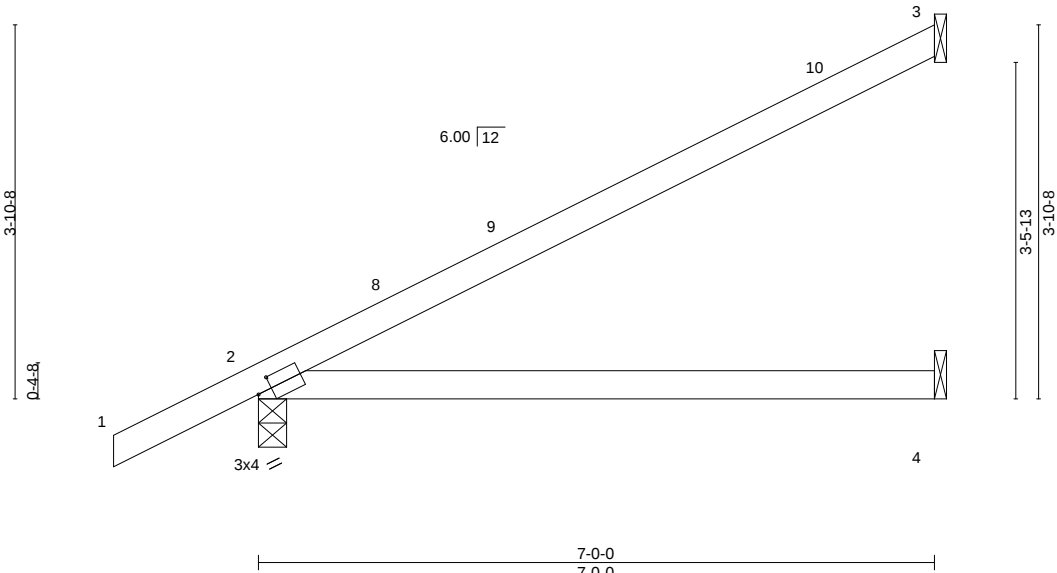
Lake City, FL - 32055,

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:07 2024 Page 1

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Scale: 1/2"=1'



| Plate Offsets (X,Y)-- |                      | [2:0-1-13,0-1-8] |                             |               |          |
|-----------------------|----------------------|------------------|-----------------------------|---------------|----------|
| LOADING (psf)         | SPACING- 2-0-0       | CSI.             | DEFL. in (loc) l/defl L/d   | PLATES        | GRIP     |
| TCLL 20.0             | Plate Grip DOL 1.25  | TC 0.74          | Vert(LL) 0.23 4-7 >361 240  | MT20          | 244/190  |
| TCDL 10.0             | Lumber DOL 1.25      | BC 0.54          | Vert(CT) -0.23 4-7 >364 180 |               |          |
| BCLL 0.0 *            | Rep Stress Incr YES  | WB 0.00          | Horz(CT) -0.01 3 n/a n/a    |               |          |
| BCDL 10.0             | Code FBC2023/TPI2014 | Matrix-MS        |                             | Weight: 25 lb | FT = 20% |

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=168(LC 12)  
Max Uplift 3=-112(LC 12), 2=-109(LC 12), 4=-55(LC 9)  
Max Grav 3=181(LC 1), 2=377(LC 1), 4=128(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 3, 109 lb uplift at joint 2 and 55 lb uplift at joint 4.

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October 2,2024

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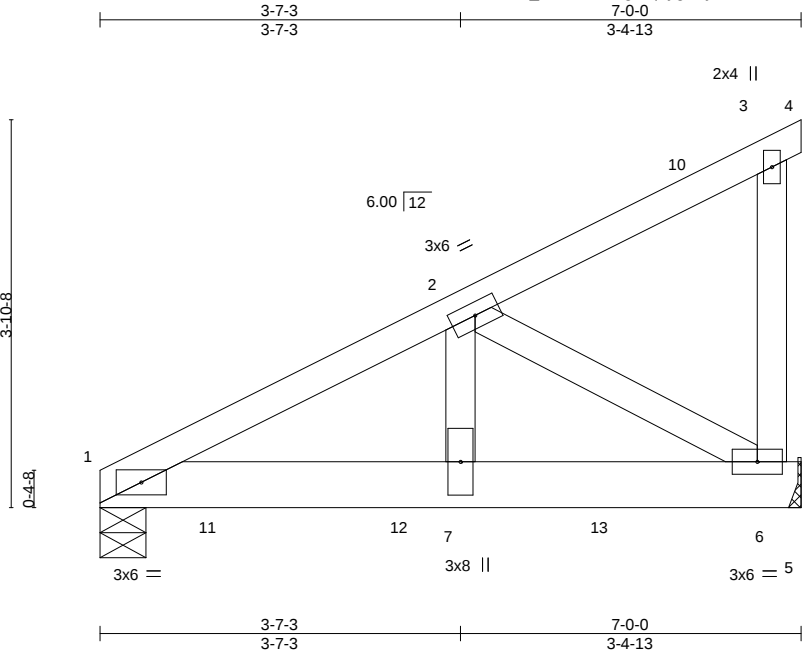
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|         |       |                  |     |     |                          |           |
|---------|-------|------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type       | Qty | Ply | LANDER RES.              | T35158259 |
| 4190707 | EJ02  | Jack-Open Girder | 1   | 1   | Job Reference (optional) |           |

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

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Scale = 1:23.0

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc) | l/defl | L/d  | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.16   | Vert(LL) | -0.02    | 7-9    | >999 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.47   | Vert(CT) | -0.03    | 7-9    | >999 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.39   | Horz(CT) | 0.01     | 6      | n/a  |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |          |        |      | Weight: 40 lb | FT = 20% |

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| <b>LUMBER-</b>        | <b>BRACING-</b>                                                             |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.              |
| WEBS 2x4 SP No.3      |                                                                             |

**REACTIONS.** (size) 1=0-5-8, 6=Mechanical  
Max Horz 1=141(LC 25)  
Max Uplift 1=-289(LC 8), 6=-371(LC 8)  
Max Grav 1=815(LC 1), 6=939(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1327/452  
BOT CHORD 1-7=-501/1173, 6-7=-501/1173  
WEBS 2-7=-376/1034, 2-6=-1351/578

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 1 and 371 lb uplift at joint 6.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 56 lb up at 1-1-13, and 651 lb down and 311 lb up at 3-0-12, and 457 lb down and 153 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 1-5=-20  
Concentrated Loads (lb)  
Vert: 11=-98(B) 12=-651(B) 13=-457(B)

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Chesterfield, MO 63017  
Date:

October 2,2024

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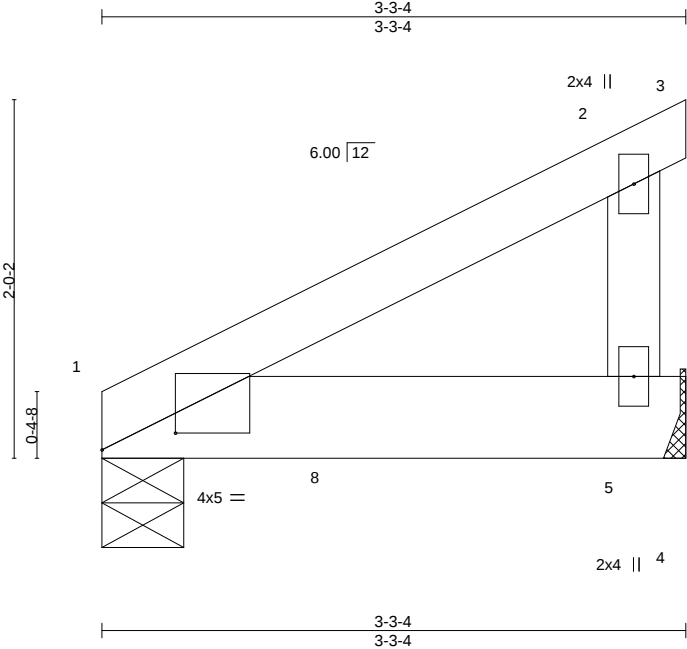
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|         |       |                  |     |     |                          |           |
|---------|-------|------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type       | Qty | Ply | LANDER RES.              | T35158261 |
| 4190707 | EJ04  | Jack-Open Girder | 1   | 1   | Job Reference (optional) |           |

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| Plate Offsets (X,Y)-- |                      | [1:0-4-15,0-1-2] |           |          |           |        |     |               |          |
|-----------------------|----------------------|------------------|-----------|----------|-----------|--------|-----|---------------|----------|
| LOADING (psf)         | SPACING-             | 2-0-0            | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
| TCLL 20.0             | Plate Grip DOL       | 1.25             | TC 0.26   | Vert(LL) | -0.01 5-7 | >999   | 240 | MT20          | 244/190  |
| TCDL 10.0             | Lumber DOL           | 1.25             | BC 0.56   | Vert(CT) | -0.02 5-7 | >999   | 180 |               |          |
| BCLL 0.0 *            | Rep Stress Incr      | NO               | WB 0.02   | Horz(CT) | 0.00 5    | n/a    | n/a |               |          |
| BCDL 10.0             | Code FBC2023/TPI2014 |                  | Matrix-MP |          |           |        |     | Weight: 15 lb | FT = 20% |

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                  |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 3-3-4 oc purlins. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.            |
| WEBS 2x4 SP No.3      |                                                                           |

REACTIONS. (size) 1=0-5-8, 5=Mechanical  
Max Horz 1=68(LC 8)  
Max Uplift 1=-147(LC 8), 5=-168(LC 8)  
Max Grav 1=546(LC 2), 5=475(LC 2)

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

- NOTES-
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 1 and 168 lb uplift at joint 5.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 801 lb down and 239 lb up at 1-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-20, 1-4=-20  
Concentrated Loads (lb)  
Vert: 8=-743(F)

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Chesterfield, MO 63017  
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|         |       |                     |     |     |                          |           |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type          | Qty | Ply | LANDER RES.              | T35158262 |
| 4190707 | HJ05  | Diagonal Hip Girder | 1   | 1   | Job Reference (optional) |           |

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8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:09 2024 Page 1  
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Scale = 1:13.6

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc) | l/defl | L/d  | PLATES | GRIP                   |
|---------------|----------------------|-------|-----------|----------|----------|--------|------|--------|------------------------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.33   | Vert(LL) | -0.03    | 4-7    | >999 | 240    | MT20                   |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.23   | Vert(CT) | 0.03     | 4-7    | >999 | 180    | 244/190                |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.00   | Horz(CT) | 0.00     | 2      | n/a  | n/a    |                        |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MP |          |          |        |      |        |                        |
|               |                      |       |           |          |          |        |      |        | Weight: 17 lb FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 3=Mechanical, 2=0-7-6, 4=Mechanical  
Max Horz 2=110(LC 4)  
Max Uplift 3=-109(LC 8), 2=-214(LC 4), 4=-58(LC 8)  
Max Grav 3=121(LC 1), 2=258(LC 1), 4=95(LC 3)

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

**NOTES-**

- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 3, 214 lb uplift at joint 2 and 58 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, and 33 lb down and 51 lb up at 4-6-0, and 33 lb down and 51 lb up at 4-6-0 on top chord, and 11 lb down and 50 lb up at 1-6-1, 11 lb down and 50 lb up at 1-6-1, and 22 lb down and 29 lb up at 4-6-0, and 22 lb down and 29 lb up at 4-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-5=-20  
Concentrated Loads (lb)  
Vert: 3=-36(F=-18, B=-18) 4=-26(F=-13, B=-13) 8=58(F=29, B=29) 9=62(F=31, B=31)

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.

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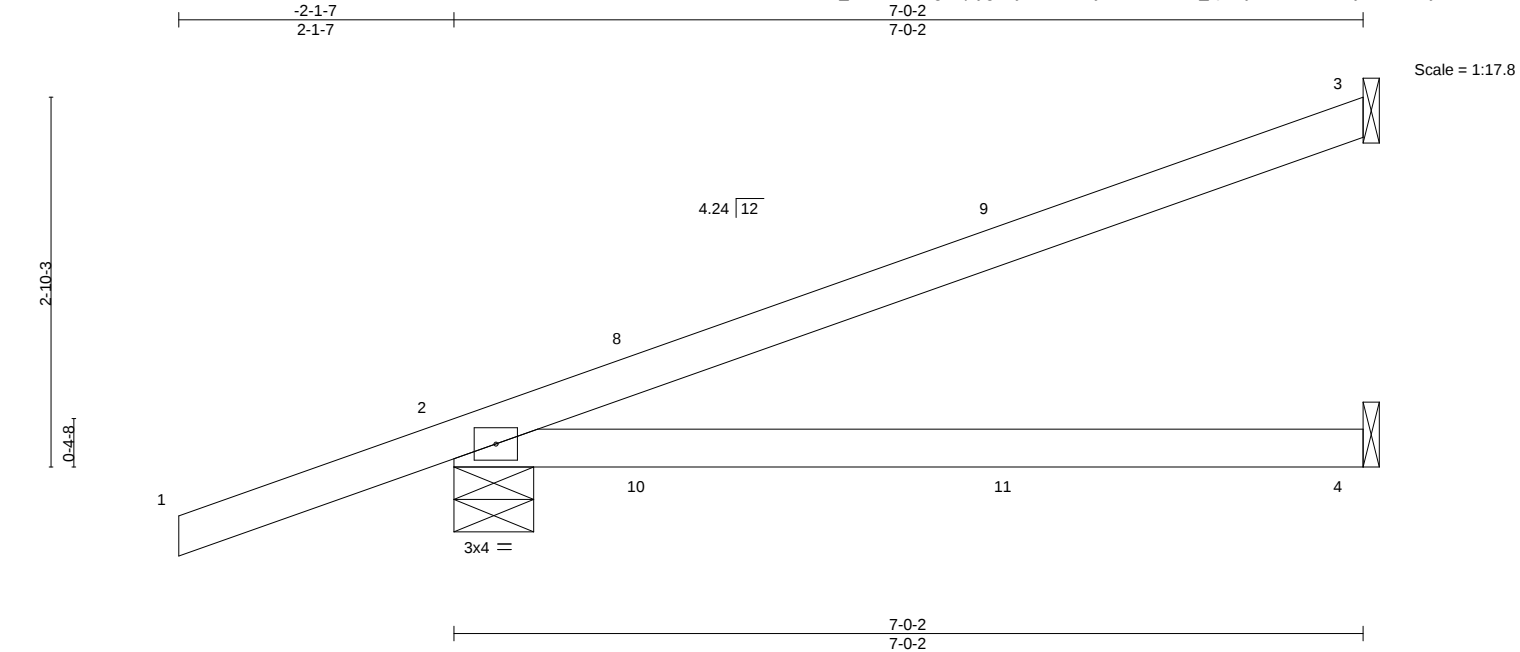
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|         |       |                     |     |     |                          |           |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type          | Qty | Ply | LANDER RES.              | T35158263 |
| 4190707 | HJ08  | Diagonal Hip Girder | 2   | 1   | Job Reference (optional) |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:10 2024 Page 1

ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-T6GyUsvfwLz3rvZ\_QfbdyS8Ewn7Yu8vymW6KccyXkAN



| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.64   | Vert(LL) | 0.16 4-7  | >525   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.46   | Vert(CT) | -0.17 4-7 | >505   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.00   | Horz(CT) | -0.01 3   | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |           |        |     | Weight: 25 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-7-6, 4=Mechanical  
Max Horz 2=147(LC 4)  
Max Uplift 3=-119(LC 8), 2=-261(LC 4), 4=-36(LC 8)  
Max Grav 3=164(LC 1), 2=333(LC 1), 4=114(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 3, 261 lb uplift at joint 2 and 36 lb uplift at joint 4.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, and 31 lb down and 50 lb up at 4-4-0, and 31 lb down and 50 lb up at 4-4-0 on top chord, and 11 lb down and 50 lb up at 1-6-1, 11 lb down and 50 lb up at 1-6-1, and 19 lb down and 29 lb up at 4-4-0, and 19 lb down and 29 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-5=-20  
Concentrated Loads (lb)  
Vert: 8=58(F=29, B=29) 10=62(F=31, B=31) 11=-6(F=-3, B=-3)

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:

October 2,2024

**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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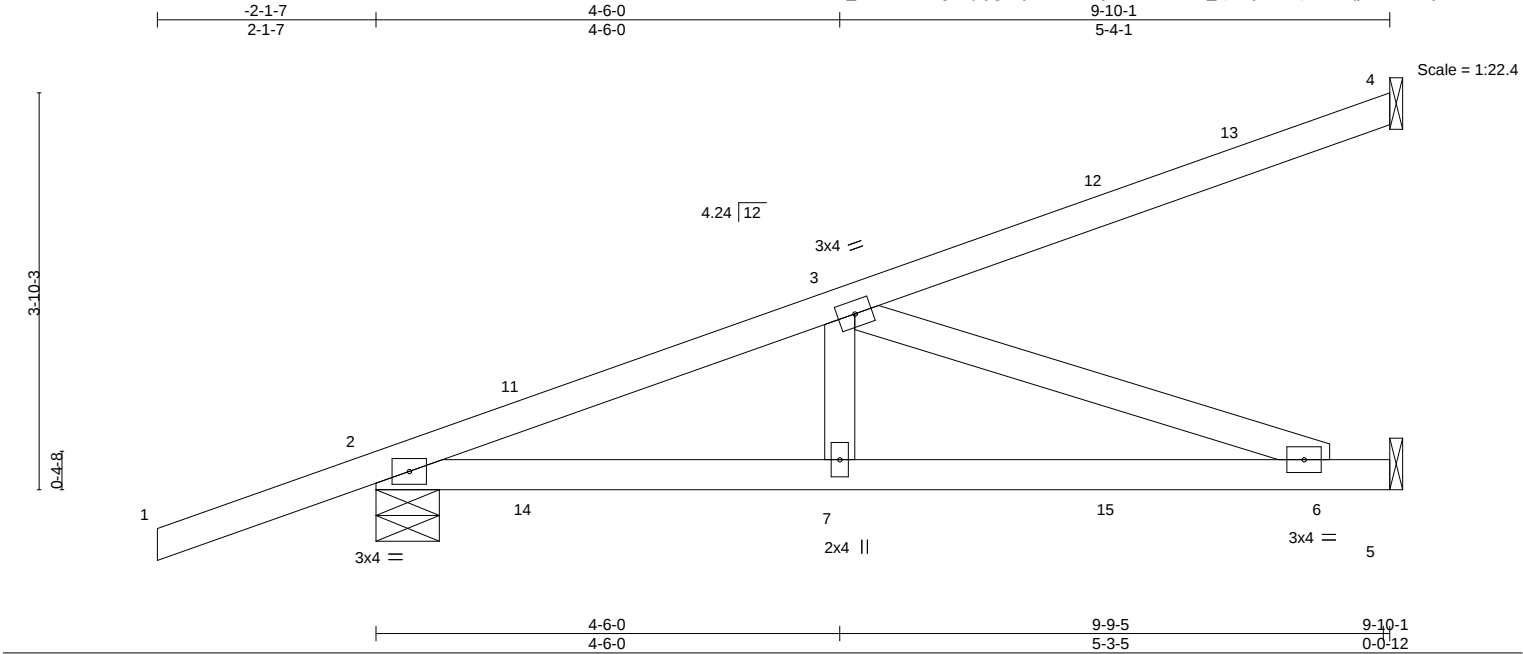
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|         |       |                     |     |     |                          |           |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type          | Qty | Ply | LANDER RES.              | T35158264 |
| 4190707 | HJ10  | Diagonal Hip Girder | 7   | 1   | Job Reference (optional) |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:10 2024 Page 1  
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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.68   | Vert(LL) | 0.13 6-7  | >937   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.71   | Vert(CT) | -0.15 6-7 | >758   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.39   | Horz(CT) | 0.01 5    | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |           |        |     | Weight: 43 lb | FT = 20% |

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical  
Max Horz 2=183(LC 4)  
Max Uplift 4=-103(LC 4), 2=-395(LC 4), 5=-223(LC 4)  
Max Grav 4=170(LC 1), 2=472(LC 1), 5=295(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-770/504  
BOT CHORD 2-7=-566/709, 6-7=-566/709  
WEBS 3-7=-138/270, 3-6=-752/600

#### NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4, 395 lb uplift at joint 2 and 223 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, 31 lb down and 50 lb up at 4-4-0, 31 lb down and 50 lb up at 4-4-0, and 59 lb down and 96 lb up at 7-1-15, and 59 lb down and 96 lb up at 7-1-15 on top chord, and 40 lb down and 50 lb up at 1-6-1, 40 lb down and 50 lb up at 1-6-1, 20 lb down and 29 lb up at 4-4-0, 20 lb down and 29 lb up at 4-4-0, and 43 lb down and 53 lb up at 7-1-15, and 43 lb down and 53 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S)

- Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 5-8=-20  
Concentrated Loads (lb)  
Vert: 7=-6(F=-3, B=-3) 11=58(F=29, B=29) 12=-79(F=-39, B=-39) 14=62(F=31, B=31) 15=-62(F=-31, B=-31)

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:

October 2,2024

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

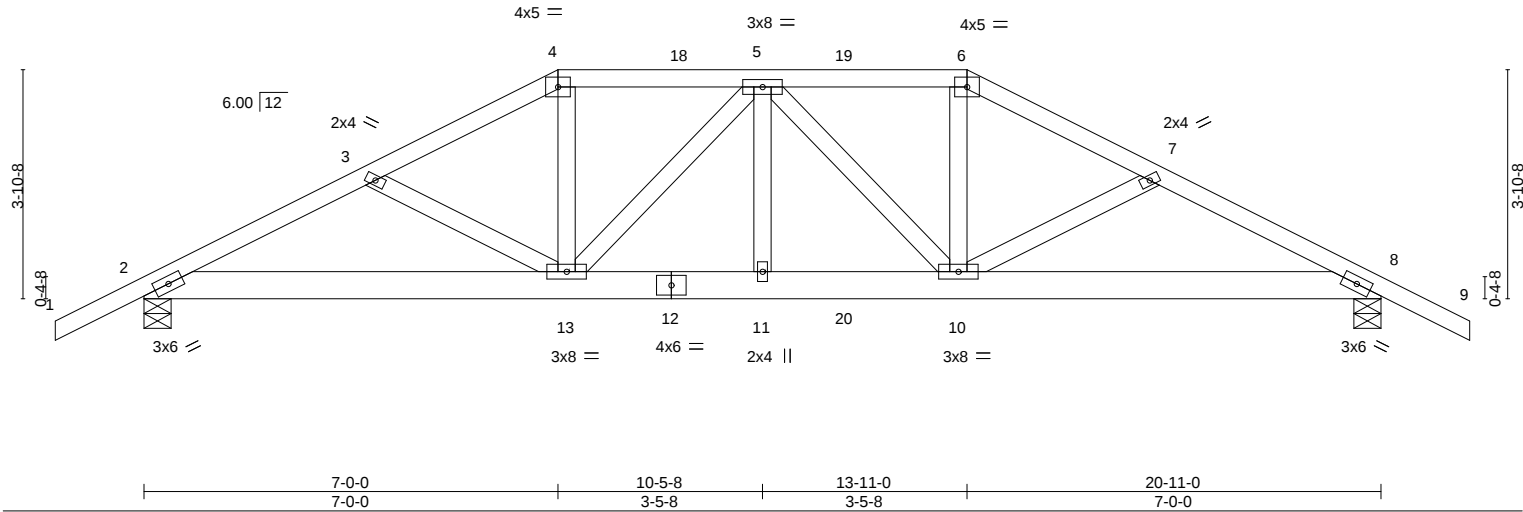
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158265 |
| 4190707 | T01   | Hip Girder | 1   | 1   | Job Reference (optional) |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:11 2024 Page 1  
ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-xJqKiCgXhf5wT38A\_M6sUfhTJBQqdWL5\_Aru93yXkAM  
-1-6-0 3-10-15 7-0-0 10-5-8 13-11-0 17-0-1 20-11-0 22-5-0  
1-6-0 3-10-15 3-1-1 3-5-8 3-5-8 3-1-1 3-10-15 1-6-0  
Scale = 1:39.0



| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc) | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|----------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.41   | Vert(LL) | 0.16 11  | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.65   | Vert(CT) | -0.21 11 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.37   | Horz(CT) | 0.07 8   | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |          |        |     | Weight: 125 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-1-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-7-7 oc bracing.

**REACTIONS.**

(size) 2=0-5-8, 8=0-5-8  
Max Horz 2=78(LC 8)  
Max Uplift 2=-912(LC 8), 8=-920(LC 9)  
Max Grav 2=1692(LC 1), 8=1719(LC 1)

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

TOP CHORD 2-3=-3190/1827, 3-4=-3000/1757, 4-5=-2683/1624, 5-6=-2733/1639, 6-7=-3059/1776,  
7-8=-3250/1846  
BOT CHORD 2-13=-1629/2827, 11-13=-1732/3035, 10-11=-1732/3035, 8-10=-1567/2881  
WEBS 4-13=-578/978, 5-13=-571/382, 5-10=-485/313, 6-10=-531/920

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 912 lb uplift at joint 2 and 920 lb uplift at joint 8.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, 121 lb down and 120 lb up at 9-0-12, 121 lb down and 111 lb up at 10-5-8, and 121 lb down and 120 lb up at 11-10-4, and 253 lb down and 232 lb up at 13-11-0 on top chord, and 334 lb down and 331 lb up at 7-0-0, 88 lb down and 75 lb up at 9-0-12, 88 lb down and 75 lb up at 10-5-8, and 88 lb down and 75 lb up at 11-10-4, and 334 lb down and 331 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20  
Concentrated Loads (lb)  
Vert: 4=-121(F) 6=-206(F) 12=-67(F) 13=-334(F) 11=-67(F) 5=-121(F) 10=-334(F) 18=-121(F) 19=-121(F) 20=-67(F)

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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:

October 2,2024

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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158266 |
| 4190707 | T02   | Hip        | 1   | 1   | Job Reference (optional) |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:12 2024 Page 1

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1-6-0

4-8-15  
4-8-15

9-0-0  
4-3-1

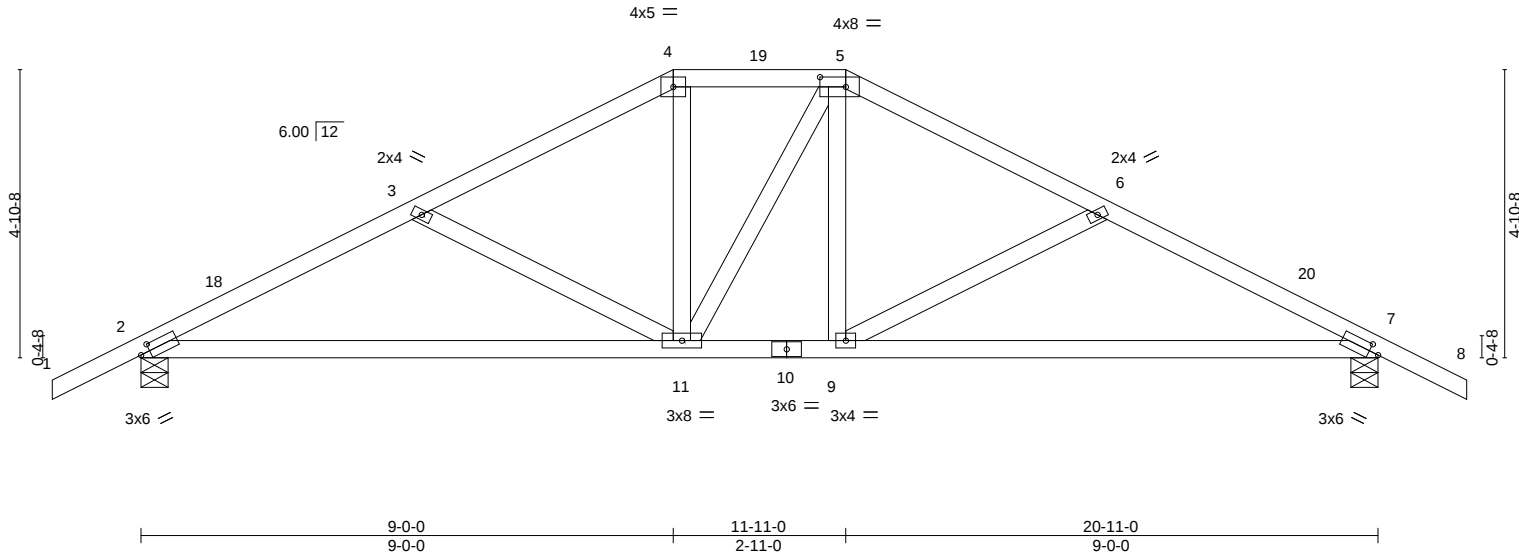
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2-11-0

16-2-1  
4-3-1

20-11-0  
4-8-15

22-5-0  
1-6-0

Scale = 1:39.0



|               |                      |           |                |          |        |     |                |          |
|---------------|----------------------|-----------|----------------|----------|--------|-----|----------------|----------|
| LOADING (psf) | SPACING- 2-0-0       | CSI.      | DEFL.          | in (loc) | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0     | Plate Grip DOL 1.25  | TC 0.42   | Vert(LL) -0.15 | 9-17     | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL 1.25      | BC 0.69   | Vert(CT) -0.32 | 9-17     | >796   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr YES  | WB 0.18   | Horz(CT) 0.04  | 7        | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 | Matrix-MS |                |          |        |     | Weight: 105 lb | FT = 20% |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                   |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-8-10 oc purlins. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.              |
| WEBS 2x4 SP No.3      |                                                                            |

REACTIONS. (size) 2=0-5-8, 7=0-5-8  
Max Horz 2=-97(LC 13)  
Max Uplift 2=-279(LC 12), 7=-279(LC 13)  
Max Grav 2=927(LC 1), 7=927(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1427/431, 3-4=-1125/338, 4-5=-953/338, 5-6=-1124/338, 6-7=-1427/431  
BOT CHORD 2-11=-381/1251, 9-11=-153/952, 7-9=-316/1251  
WEBS 3-11=-348/224, 4-11=-67/314, 5-9=-71/313, 6-9=-349/224

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-11-0, Zone2 11-11-0 to 16-4-0, Zone1 16-4-0 to 22-5-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 2 and 279 lb uplift at joint 7.

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  
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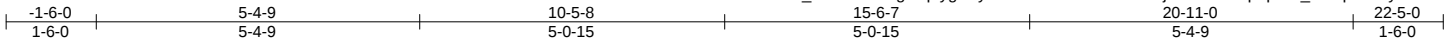
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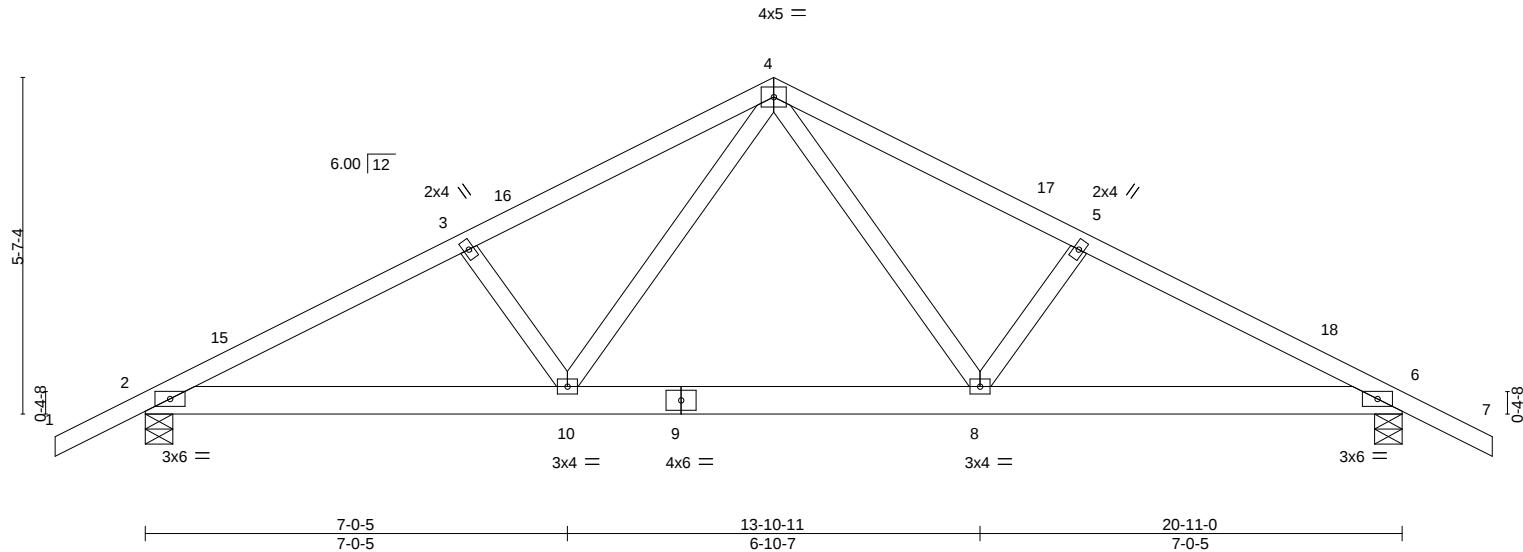
|                          |       |            |     |     |             |           |
|--------------------------|-------|------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158267 |
| 4190707                  | T03   | Common     | 3   | 1   |             |           |
| Job Reference (optional) |       |            |     |     |             |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:12 2024 Page 1  
ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-PVNivYh9SzDn4DjNY4d51tEfbbpYM\_tFDqbRhVyXkAL



Scale = 1:38.3



| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)   | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.36   | Vert(LL) | -0.09 8-10 | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.49   | Vert(CT) | -0.18 8-10 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.29   | Horz(CT) | 0.03 6     | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |            |        |     | Weight: 115 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

**REACTIONS.**

(size) 2=0-5-8, 6=0-5-8  
Max Horz 2=-110(LC 17)  
Max Uplift 2=-348(LC 12), 6=-348(LC 13)  
Max Grav 2=1133(LC 1), 6=1133(LC 1)

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

TOP CHORD 2-3=-1964/705, 3-4=-1810/701, 4-5=-1810/701, 5-6=-1963/705  
BOT CHORD 2-10=-528/1709, 8-10=-283/1138, 6-8=-551/1709  
WEBS 4-8=-291/764, 5-8=-292/215, 4-10=-291/764, 3-10=-292/215

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-5-8, Zone2 10-5-8 to 14-8-7, Zone1 14-8-7 to 22-5-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 2 and 348 lb uplift at joint 6.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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:

October 2,2024

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

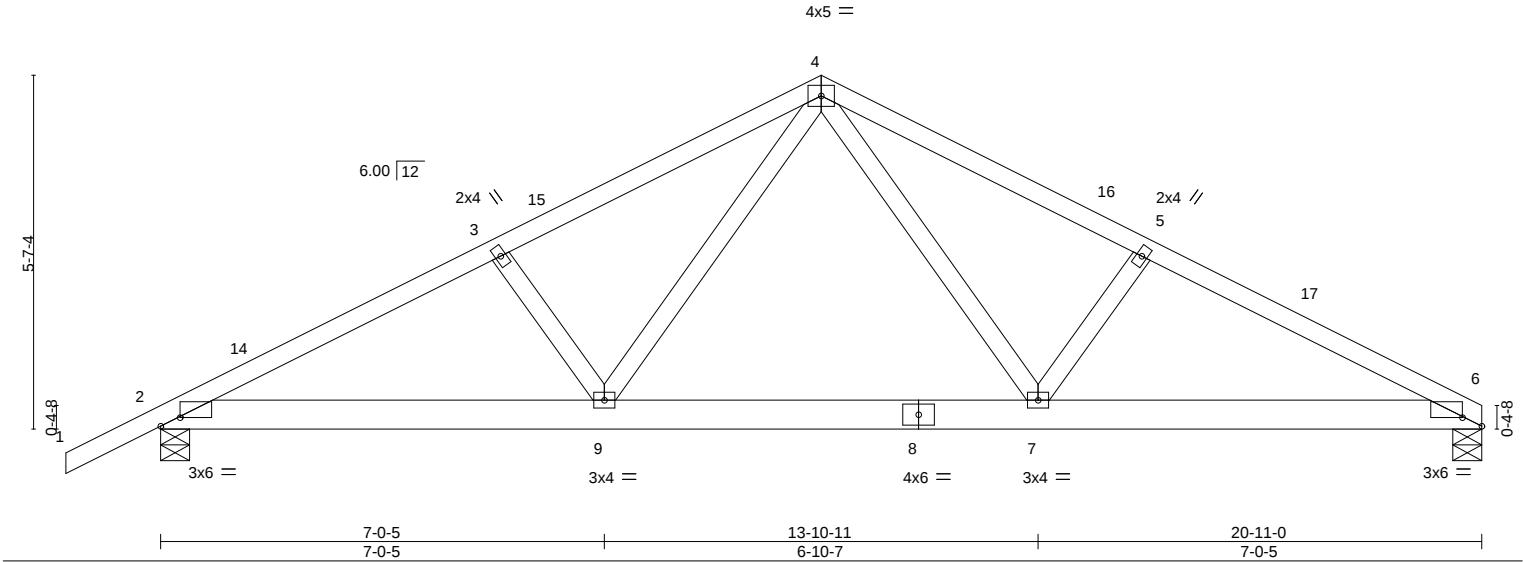
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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|                          |       |            |     |     |             |           |
|--------------------------|-------|------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158268 |
| 4190707                  | T04   | Common     | 2   | 1   |             |           |
| Job Reference (optional) |       |            |     |     |             |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:13 2024 Page 1  
ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-thx46tinDGLeiNIZ5n8Ka4mqZ\_7\_5R0OSUK\_DxyXkAK  
-1-6-0 5-4-9 10-5-8 15-6-7 20-11-0  
1-6-0 5-4-9 5-0-15 5-0-15 5-4-9  
Scale = 1:36.5



| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.36   | Vert(LL) | -0.09 7-9 | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.54   | Vert(CT) | -0.18 7-9 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | NO    | WB 0.30   | Horz(CT) | 0.03 6    | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |           |        |     | Weight: 113 lb | FT = 20% |

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-2 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.

**REACTIONS.** (size) 6=0-5-8, 2=0-5-8  
Max Horz 2=123(LC 12)  
Max Uplift 6=-305(LC 13), 2=-349(LC 12)  
Max Grav 6=1039(LC 1), 2=1136(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1970/722, 3-4=-1816/718, 4-5=-1830/739, 5-6=-1984/741  
BOT CHORD 2-9=-585/1715, 7-9=-320/1145, 6-7=-583/1729  
WEBS 4-7=-299/782, 5-7=-297/218, 4-9=-285/762, 3-9=-292/215

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-5-8, Zone2 10-5-8 to 14-8-7, Zone1 14-8-7 to 20-11-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 6 and 349 lb uplift at joint 2.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

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16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

October 2,2024

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|         |       |               |     |     |             |
|---------|-------|---------------|-----|-----|-------------|
| Job     | Truss | Truss Type    | Qty | Ply | LANDER RES. |
| 4190707 | T05   | Common Girder | 1   | 3   | T35158269   |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:13 2024 Page 1

ID:SuK\_nI4MV6d2dgtVq4ygAeyXsle-thx46tinDGLeiNIZ5n8Ka4moL\_975G0OSUK\_DxyXkAK

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1-6-0

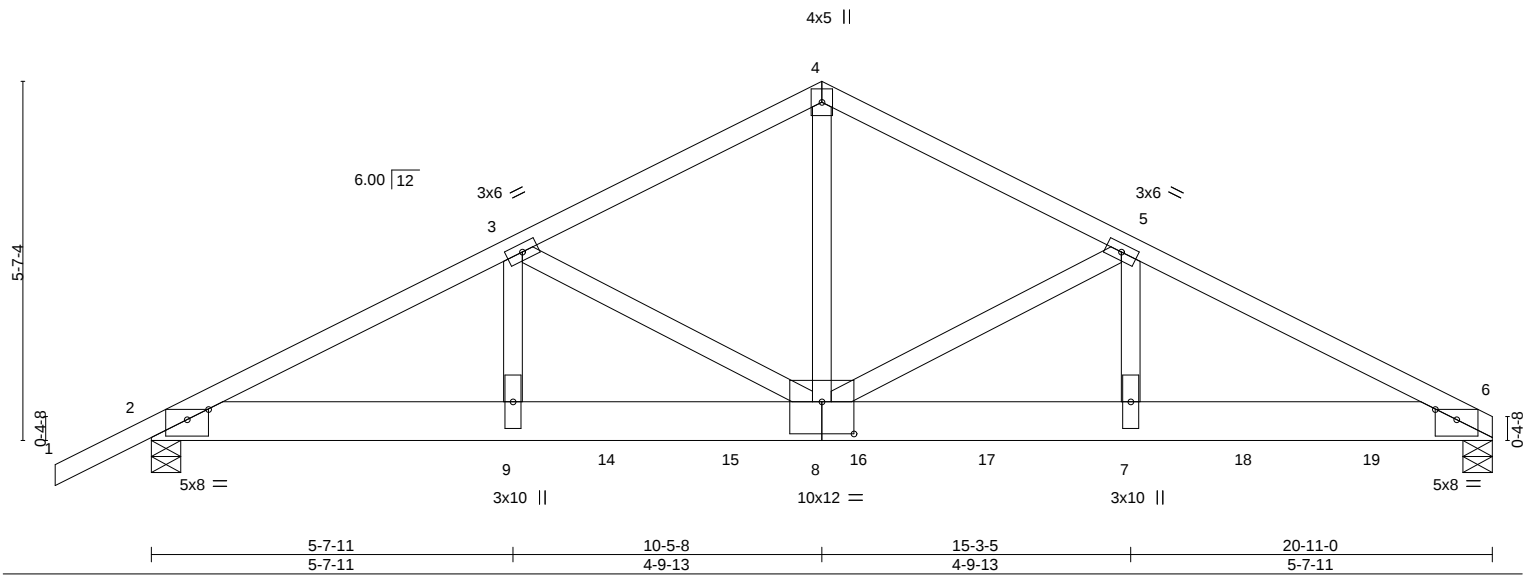
5-7-11  
5-7-11

10-5-8  
4-9-13

15-3-5  
4-9-13

20-11-0  
5-7-11

Scale = 1:35.9



|                       |  |                                                     |  |           |  |                |          |        |     |                |          |
|-----------------------|--|-----------------------------------------------------|--|-----------|--|----------------|----------|--------|-----|----------------|----------|
| Plate Offsets (X,Y)-- |  | [2:0-4-0,0-1-15], [6:0-4-0,0-1-15], [8:0-6-0,0-6-0] |  |           |  |                |          |        |     |                |          |
| LOADING (psf)         |  | SPACING- 2-0-0                                      |  | CSI.      |  | DEFL.          | in (loc) | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0             |  | Plate Grip DOL 1.25                                 |  | TC 0.51   |  | Vert(LL) 0.14  | 8-9      | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0             |  | Lumber DOL 1.25                                     |  | BC 0.41   |  | Vert(CT) -0.25 | 8-9      | >999   | 180 |                |          |
| BCLL 0.0 *            |  | Rep Stress Incr NO                                  |  | WB 1.00   |  | Horz(CT) 0.05  | 6        | n/a    | n/a |                |          |
| BCDL 10.0             |  | Code FBC2023/TPI2014                                |  | Matrix-MS |  |                |          |        |     | Weight: 393 lb | FT = 20% |

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| LUMBER-                     | BRACING-                                                                   |
| TOP CHORD 2x4 SP No.2       | TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins. |
| BOT CHORD 2x8 SP 2400F 2.0E | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.             |
| WEBS 2x4 SP No.3            |                                                                            |

|            |                                       |
|------------|---------------------------------------|
| REACTIONS. | (size) 6=0-5-8, 2=0-5-8               |
|            | Max Horz 2=123(LC 29)                 |
|            | Max Uplift 6=2248(LC 9), 2=2220(LC 8) |
|            | Max Grav 6=6776(LC 2), 2=5511(LC 1)   |

|           |                                                                               |
|-----------|-------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  |
| TOP CHORD | 2-3=-12097/4943, 3-4=-9209/3469, 4-5=-9227/3471, 5-6=-12724/4325              |
| BOT CHORD | 2-9=-4437/10761, 8-9=-4437/10761, 7-8=-3796/11361, 6-7=-3796/11361            |
| WEBS      | 4-8=-2963/7884, 5-8=-3875/1023, 5-7=-716/3325, 3-8=-2957/1649, 3-9=-1323/2484 |

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x8 - 3 rows staggered at 0-4-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2248 lb uplift at joint 6 and 2220 lb uplift at joint 2.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3120 lb down and 1794 lb up at 7-1-9, 1381 lb down and 500 lb up at 9-0-12, 1515 lb down and 401 lb up at 11-0-12, 1518 lb down and 398 lb up at 13-0-12, 1180 lb down and 327 lb up at 15-0-12, and 1139 lb down and 321 lb up at 17-0-12, and 1155 lb down and 315 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| LOAD CASE(S)                    | Standard                                  |
| 1) Dead + Roof Live (balanced): | Lumber Increase=1.25, Plate Increase=1.25 |

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Chesterfield, MO 63017  
Date:

October 2,2024

|         |       |               |     |     |             |
|---------|-------|---------------|-----|-----|-------------|
| Job     | Truss | Truss Type    | Qty | Ply | LANDER RES. |
| 4190707 | T05   | Common Girder | 1   | 3   | T35158269   |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:13 2024 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 7=-1057(B) 14=-3120(B) 15=-1381(B) 16=-1381(B) 17=-1381(B) 18=-1057(B) 19=-1057(B)

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|         |       |                 |     |     |             |
|---------|-------|-----------------|-----|-----|-------------|
| Job     | Truss | Truss Type      | Qty | Ply | LANDER RES. |
| 4190707 | T06   | Half Hip Girder | 1   | 2   | T35158270   |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:16 2024 Page 1

ID:SuK\_nI4MV6d2dgtVq4ygAeyXsle-IGdDlvkgVBkCZq18nwi1BjOBAC6KlgBq8SzfGyXkAH

-1-6-0  
1-6-0

3-10-15  
3-10-15

7-0-0  
3-1-1

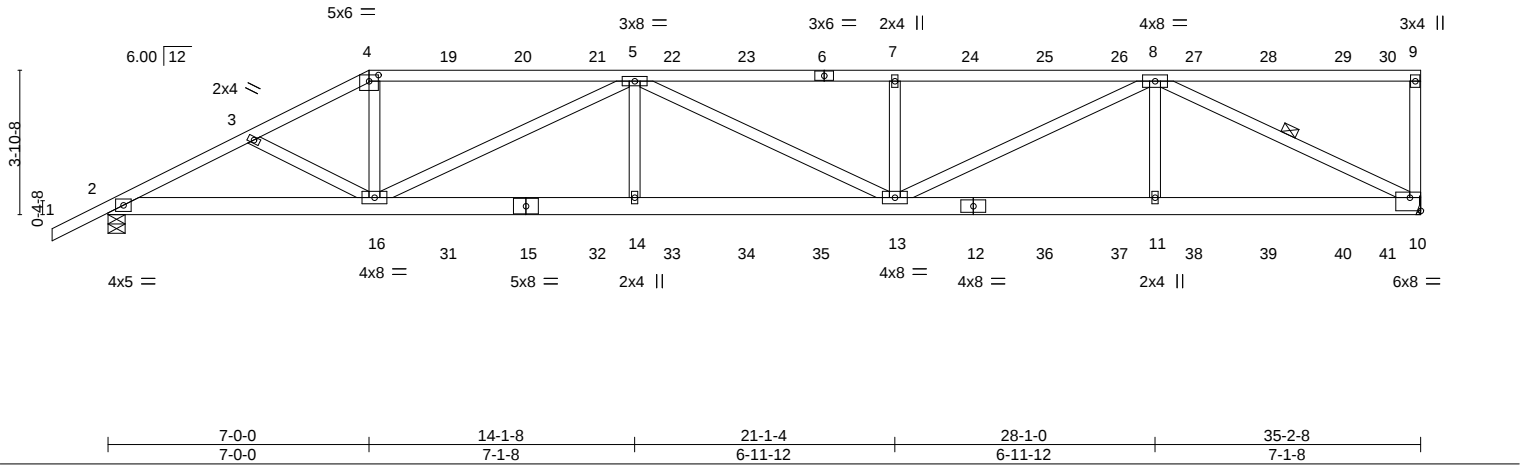
14-1-8  
7-1-8

21-1-4  
6-11-12

28-1-0  
6-11-12

35-2-8  
7-1-8

Scale = 1:61.8



|                       |  |                                  |  |       |  |           |  |          |  |             |  |        |  |     |  |                |  |          |  |
|-----------------------|--|----------------------------------|--|-------|--|-----------|--|----------|--|-------------|--|--------|--|-----|--|----------------|--|----------|--|
| Plate Offsets (X,Y)-- |  | [4:0-3-0,0-2-0], [10:Edge,0-4-4] |  |       |  |           |  |          |  |             |  |        |  |     |  |                |  |          |  |
| LOADING (psf)         |  | SPACING-                         |  | 2-0-0 |  | CSI.      |  | DEFL.    |  | in (loc)    |  | l/defl |  | L/d |  | PLATES         |  | GRIP     |  |
| TCLL 20.0             |  | Plate Grip DOL                   |  | 1.25  |  | TC 0.98   |  | Vert(LL) |  | 0.39 13-14  |  | >999   |  | 240 |  | MT20           |  | 244/190  |  |
| TCDL 10.0             |  | Lumber DOL                       |  | 1.25  |  | BC 0.76   |  | Vert(CT) |  | -0.53 13-14 |  | >790   |  | 180 |  |                |  |          |  |
| BCLL 0.0 *            |  | Rep Stress Incr                  |  | NO    |  | WB 0.78   |  | Horz(CT) |  | 0.11 10     |  | n/a    |  | n/a |  |                |  |          |  |
| BCDL 10.0             |  | Code FBC2023/TPI2014             |  |       |  | Matrix-MS |  |          |  |             |  |        |  |     |  | Weight: 422 lb |  | FT = 20% |  |

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                    |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied, except end verticals. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.              |
| WEBS 2x4 SP No.3      | WEBS 1 Row at midpt 8-10                                                    |

**REACTIONS.** (size) 10=Mechanical, 2=0-5-8  
Max Horz 2=176(LC 29)  
Max Uplift 10=-1774(LC 5), 2=-1524(LC 8)  
Max Grav 10=3140(LC 1), 2=2839(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-5741/3185, 3-4=-5599/3154, 4-5=-5077/2908, 5-7=-7503/4215, 7-8=-7503/4215, 9-10=-406/247  
BOT CHORD 2-16=-2933/5084, 14-16=-4278/7594, 13-14=-4278/7594, 11-13=-2904/5158, 10-11=-2904/5158  
WEBS 4-16=-1060/1909, 5-16=-2869/1613, 5-14=-188/610, 7-13=-791/479, 8-13=-1487/2623, 8-11=-196/667, 8-10=-5652/3179

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1774 lb uplift at joint 10 and 1524 lb uplift at joint 2.

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.

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Date:

October 2,2024

Continued on page 2

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|         |       |                 |     |     |                          |           |
|---------|-------|-----------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type      | Qty | Ply | LANDER RES.              | T35158270 |
| 4190707 | T06   | Half Hip Girder | 1   | 2   | Job Reference (optional) |           |

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, 121 lb down and 120 lb up at 9-0-12, 121 lb down and 120 lb up at 11-0-12, 121 lb down and 120 lb up at 13-0-12, 121 lb down and 120 lb up at 15-0-12, 121 lb down and 120 lb up at 17-0-12, 121 lb down and 120 lb up at 19-0-12, 121 lb down and 111 lb up at 21-0-12, 121 lb down and 120 lb up at 23-0-12, 121 lb down and 120 lb up at 25-0-12, 121 lb down and 120 lb up at 27-0-12, 121 lb down and 120 lb up at 29-0-12, 121 lb down and 120 lb up at 31-0-12, and 121 lb down and 120 lb up at 33-0-12, and 121 lb down and 120 lb up at 33-6-8 on top chord, and 334 lb down and 331 lb up at 7-0-0, 88 lb down and 75 lb up at 9-0-12, 88 lb down and 75 lb up at 11-0-12, 88 lb down and 75 lb up at 13-0-12, 88 lb down and 75 lb up at 15-0-12, 88 lb down and 75 lb up at 17-0-12, 88 lb down and 75 lb up at 19-0-12, 88 lb down and 75 lb up at 21-0-12, 88 lb down and 75 lb up at 23-0-12, 88 lb down and 75 lb up at 25-0-12, 88 lb down and 75 lb up at 27-0-12, 88 lb down and 75 lb up at 29-0-12, 88 lb down and 75 lb up at 31-0-12, and 88 lb down and 75 lb up at 33-0-12, and 88 lb down and 75 lb up at 33-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-9=-60, 2-10=-20
- Concentrated Loads (lb)
- Vert: 4=-121(F) 6=-121(F) 15=-67(F) 16=-334(F) 7=-121(F) 13=-67(F) 12=-67(F) 19=-121(F) 20=-121(F) 21=-121(F) 22=-121(F) 23=-121(F) 24=-121(F) 25=-121(F) 26=-121(F) 27=-121(F) 28=-121(F) 29=-121(F) 30=-121(F) 31=-67(F) 32=-67(F) 33=-67(F) 34=-67(F) 35=-67(F) 36=-67(F) 37=-67(F) 38=-67(F) 39=-67(F) 40=-67(F) 41=-67(F)

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|         |       |            |     |     |             |           |
|---------|-------|------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158271 |
| 4190707 | T07   | Half Hip   | 1   | 1   |             |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:16 2024 Page 1

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-1-6-0  
1-6-0

4-9-8  
4-9-8

9-0-0  
4-2-8

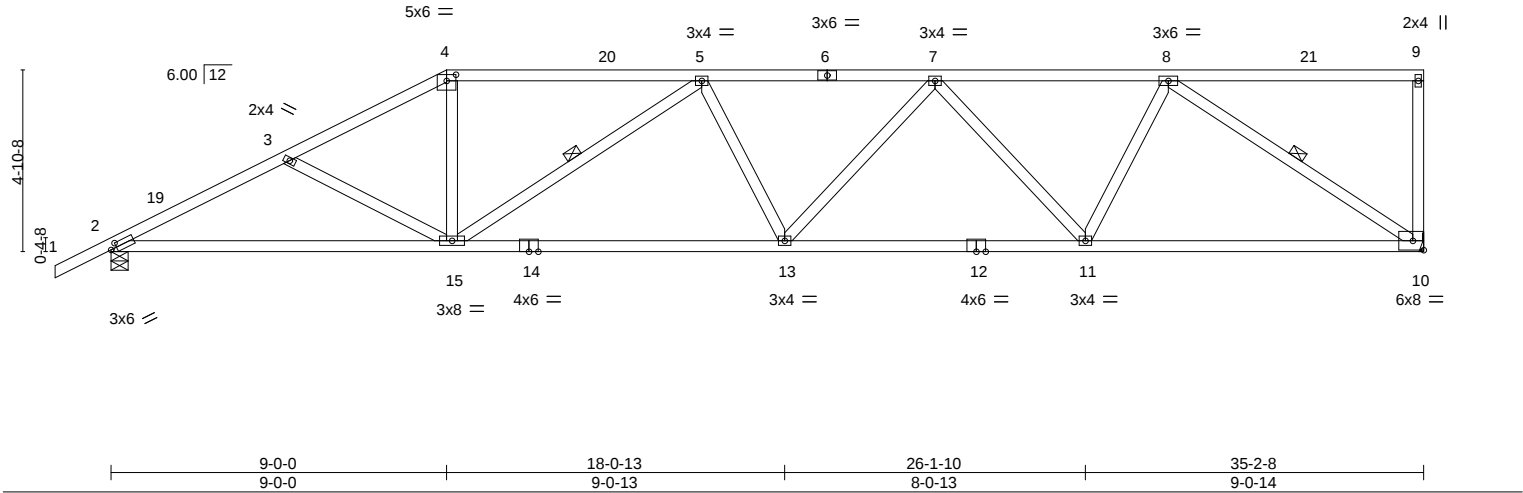
15-10-2  
6-10-2

22-1-4  
6-3-2

28-4-5  
6-3-2

35-2-8  
6-10-3

Scale = 1:61.8



|                       |                      |                                   |                               |                |          |
|-----------------------|----------------------|-----------------------------------|-------------------------------|----------------|----------|
| Plate Offsets (X,Y)-- |                      | [2:0-1-15,0-1-8], [4:0-3-0,0-2-0] |                               |                |          |
| LOADING (psf)         | SPACING- 2-0-0       | CSI.                              | DEFL. in (loc) l/defl L/d     | PLATES         | GRIP     |
| TCLL 20.0             | Plate Grip DOL 1.25  | TC 0.66                           | Vert(LL) -0.20 10-11 >999 240 | MT20           | 244/190  |
| TCDL 10.0             | Lumber DOL 1.25      | BC 0.99                           | Vert(CT) -0.43 13-15 >984 180 |                |          |
| BCLL 0.0 *            | Rep Stress Incr YES  | WB 0.75                           | Horz(CT) 0.13 10 n/a n/a      |                |          |
| BCDL 10.0             | Code FBC2023/TPI2014 | Matrix-MS                         |                               | Weight: 184 lb | FT = 20% |

|                                                                                                               |                                                                                                   |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| LUMBER-                                                                                                       | BRACING-                                                                                          |
| TOP CHORD 2x4 SP No.2                                                                                         | TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2                                                                                         | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except: 7-6-12 oc bracing: 10-11.   |
| WEBS 2x4 SP No.3                                                                                              | WEBS 1 Row at midpt 5-15, 8-10                                                                    |
| REACTIONS. (size) 10=Mechanical, 2=0-5-8                                                                      |                                                                                                   |
| Max Horz 2=219(LC 12)                                                                                         |                                                                                                   |
| Max Uplift 10=-480(LC 9), 2=-478(LC 12)                                                                       |                                                                                                   |
| Max Grav 10=1401(LC 1), 2=1494(LC 1)                                                                          |                                                                                                   |
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                          |                                                                                                   |
| TOP CHORD 2-3=-2666/839, 3-4=-2386/737, 4-5=-2104/703, 5-7=-2684/882, 7-8=-2049/674                           |                                                                                                   |
| BOT CHORD 2-15=-879/2338, 13-15=-914/2695, 11-13=-864/2520, 10-11=-597/1702                                   |                                                                                                   |
| WEBS 3-15=-291/204, 4-15=-163/726, 5-15=-800/350, 7-13=-121/276, 7-11=-712/313, 8-11=-199/795, 8-10=-2023/714 |                                                                                                   |

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 35-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 10 and 478 lb uplift at joint 2.

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  
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Date:

October 2,2024

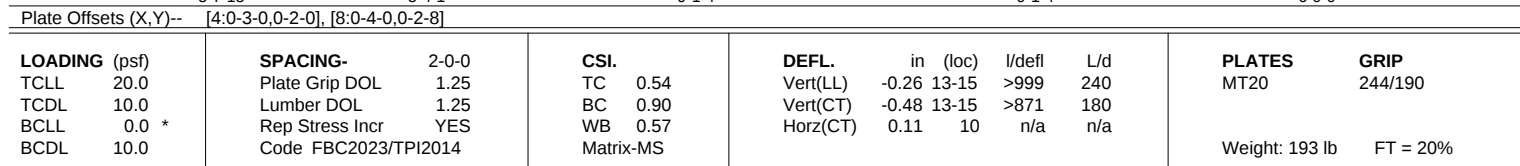
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 ID: SuK\_nl4MV6d2dgtVq4ygAeyXsle-mSBbyFIIGVs3B\_cKkDdGkwXSrcPI1Bk\_N6ICMiyXkAG  
 -1-6-0 5-7-15 11-0-0 17-2-3 23-0-5 29-2-8 35-2-8  
 1-6-0 5-7-15 5-4-1 6-2-3 5-10-3 6-2-3 6-0-0  
 Scale = 1:61.8



**REACTIONS.** (size) 2=0-5-8, 10=Mechanical  
 Max Horz 2=190(LC 12)  
 Max Uplift 2=-465(LC 12), 10=-381(LC 13)  
 Max Grav 2=1602(LC 2), 10=1535(LC 2)

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

TOP CHORD 2-3=-2898/788, 3-4=-2432/673, 4-5=-2138/648, 5-7=-2430/657, 7-8=-1424/416,  
8-9=-1646/418, 9-10=-1456/395

BOT CHORD 2-16=-798/2544, 15-16=-798/2544, 13-15=-669/2445, 11-13=-601/2211

WEBS 3-15=-498/253, 4-15=-129/795, 5-15=-500/241, 7-13=-122/496, 7-11=-1103/374,  
8-11=-63/466, 9-11=-353/1498

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 29-2-8, Zone2 29-2-8 to 33-5-7, Zone1 33-5-7 to 35-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 2 and 381 lb uplift at joint 10.

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Date:

October 2.2024



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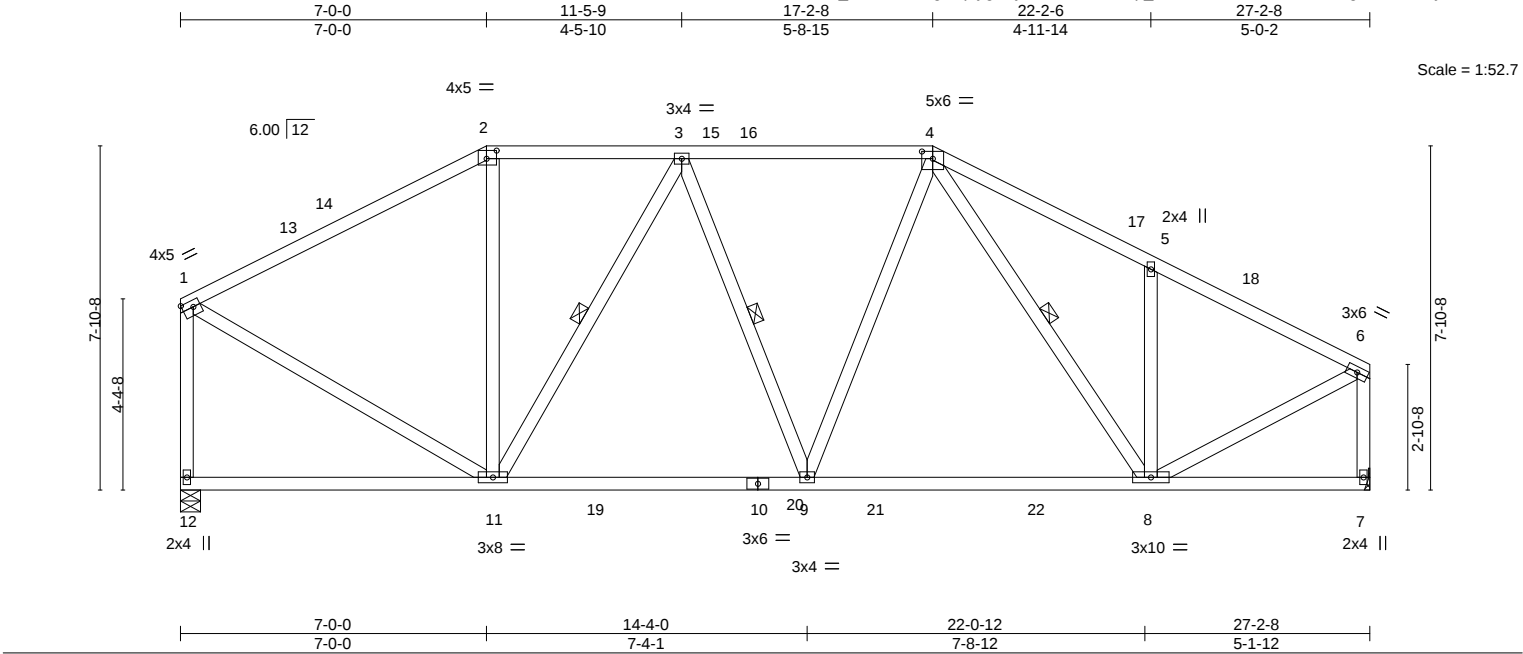
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158274 |
| 4190707 | T10   | Hip        | 1   | 1   | Job Reference (optional) |           |

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|                       |       |                                                    |      |           |      |                           |       |     |             |     |                         |
|-----------------------|-------|----------------------------------------------------|------|-----------|------|---------------------------|-------|-----|-------------|-----|-------------------------|
| Plate Offsets (X,Y)-- |       | [1:Edge,0-1-12], [2:0-2-12,0-2-4], [4:0-3-0,0-2-0] |      |           |      |                           |       |     |             |     |                         |
| LOADING (psf)         |       | SPACING- 2-0-0                                     |      | CSI.      |      | DEFL. in (loc) l/defl L/d |       |     | PLATES GRIP |     |                         |
| TCLL                  | 20.0  | Plate Grip DOL                                     | 1.25 | TC        | 0.74 | Vert(LL)                  | -0.14 | 8-9 | >999        | 240 | MT20 244/190            |
| TCDL                  | 10.0  | Lumber DOL                                         | 1.25 | BC        | 0.72 | Vert(CT)                  | -0.23 | 8-9 | >999        | 180 |                         |
| BCLL                  | 0.0 * | Rep Stress Incr                                    | YES  | WB        | 0.43 | Horz(CT)                  | 0.03  | 7   | n/a         | n/a |                         |
| BCDL                  | 10.0  | Code FBC2023/TPI2014                               |      | Matrix-MS |      |                           |       |     |             |     | Weight: 180 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 3-11, 3-9, 4-8

REACTIONS.

(size) 12=0-5-8, 7=Mechanical  
Max Horz 12=-127(LC 13)  
Max Uplift 12=-292(LC 12), 7=-307(LC 13)  
Max Grav 12=1193(LC 2), 7=1200(LC 2)

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

TOP CHORD 1-2=-1037/293, 2-3=-861/309, 3-4=-1098/359, 4-5=-1190/436, 5-6=-1176/305,  
1-12=-1087/326, 6-7=-1146/314  
BOT CHORD 9-11=-225/1065, 8-9=-184/1004  
WEBS 3-11=-459/185, 4-9=-58/328, 5-8=-331/249, 1-11=-196/953, 6-8=-236/1124

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 7-0-0, Zone2 7-0-0 to 11-5-9, Zone1 11-5-9 to 17-2-8, Zone2 17-2-8 to 21-5-7, Zone1 21-5-7 to 27-0-12 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 12 and 307 lb uplift at joint 7.

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Chesterfield, MO 63017  
Date:

October 2,2024

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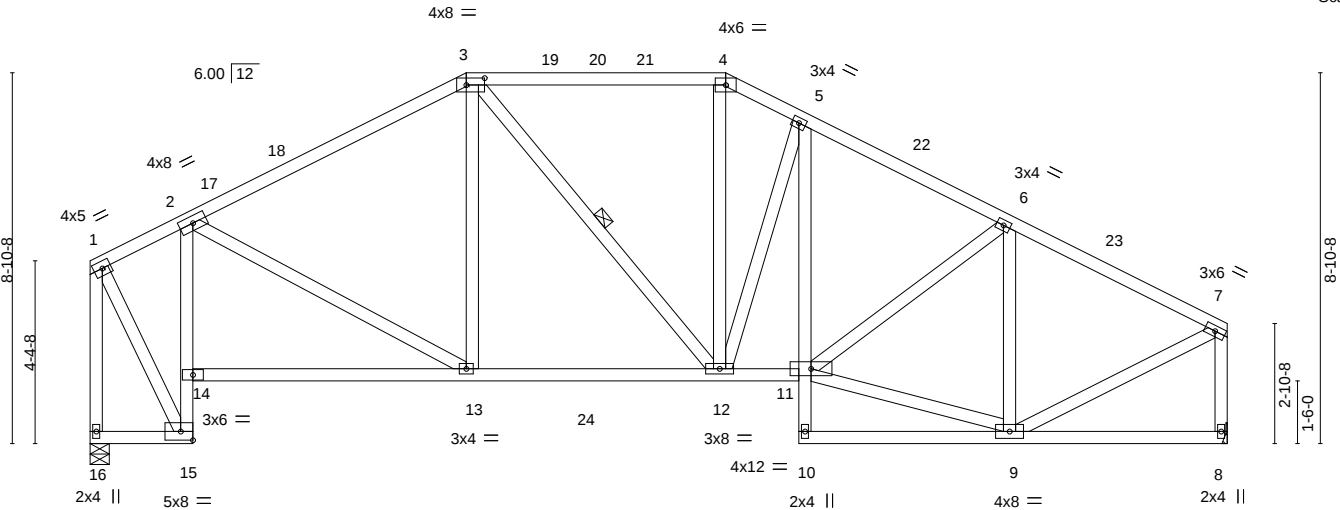
|         |       |            |     |     |             |           |
|---------|-------|------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158275 |
| 4190707 | T11   | Hip        | 1   | 1   |             |           |

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8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:19 2024 Page 1  
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Scale = 1:55.1



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

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.55   | Vert(LL) | -0.12 13-14 | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.90   | Vert(CT) | -0.25 13-14 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.40   | Horz(CT) | 0.24 8      | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |             |        |     | Weight: 204 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-15: 2x4 SP No.1, 5-10: 2x4 SP No.3  
WEBS 2x4 SP No.3

REACTIONS. (size) 16=0-5-8, 8=Mechanical  
Max Horz 16=-145(LC 13)  
Max Uplift 16=-286(LC 12), 8=-301(LC 13)  
Max Grav 16=1169(LC 2), 8=1159(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-578/161, 2-3=-1235/360, 3-4=-1119/398, 4-5=-1259/425, 5-6=-1409/416,  
6-7=-1115/301, 1-16=-1243/331, 7-8=-1084/311  
BOT CHORD 14-15=-773/245, 2-14=-694/266, 13-14=-240/680, 12-13=-207/1035, 11-12=-232/1203  
WEBS 2-13=-114/446, 4-12=-75/359, 5-12=-319/196, 9-11=-226/953, 6-11=-62/301,  
6-9=-612/213, 1-15=-287/1042, 7-9=-230/1048

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-2-8, Zone2 15-2-8 to 19-5-7, Zone1 19-5-7 to 27-0-12 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 16 and 301 lb uplift at joint 8.

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
5-3-4 oc bracing: 14-15.  
WEBS 1 Row at midpt 3-12

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Chesterfield, MO 63017  
Date:

October 2,2024

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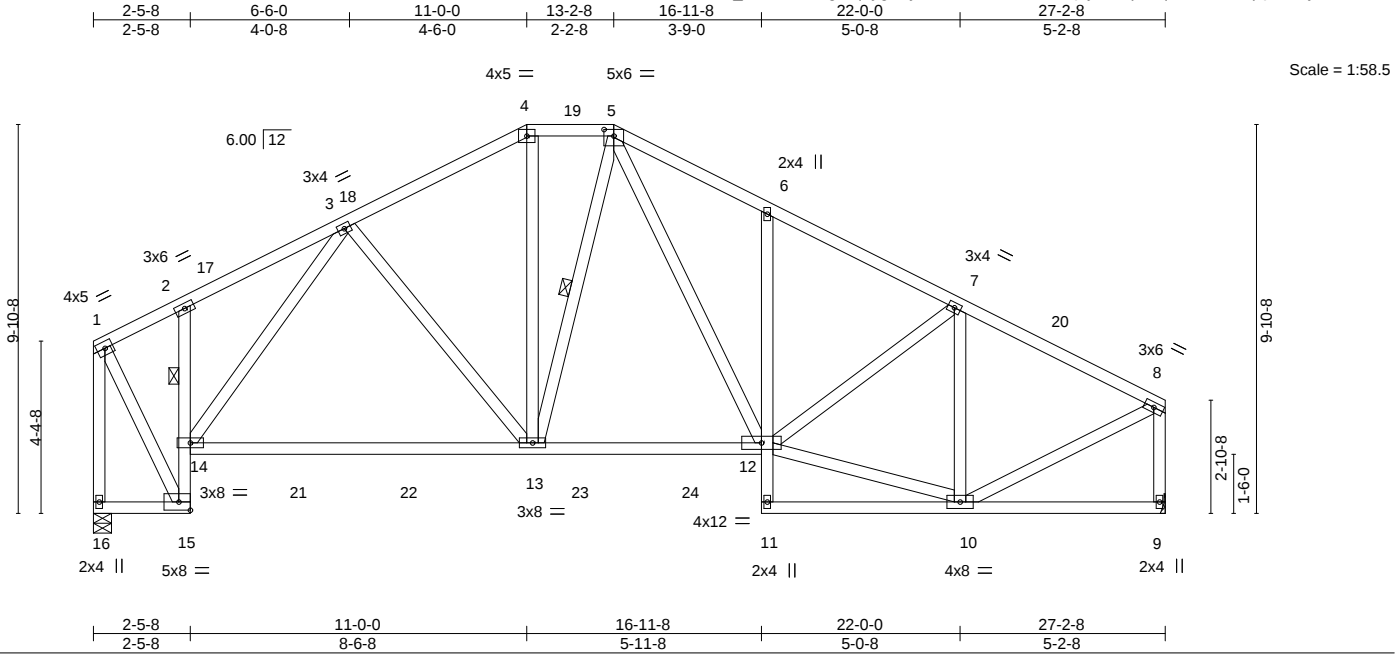
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158276 |
| 4190707 | T12   | Hip        | 1   | 1   | Job Reference (optional) |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:19 2024 Page 1  
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|                       |       |                      |  |           |      |                           |       |       |      |        |      |                |          |
|-----------------------|-------|----------------------|--|-----------|------|---------------------------|-------|-------|------|--------|------|----------------|----------|
| Plate Offsets (X,Y)-- |       | [5:0-3:0,0-2:0]      |  |           |      |                           |       |       |      |        |      |                |          |
| LOADING (psf)         |       | SPACING- 2-0-0       |  | CSI.      |      | DEFL. in (loc) l/defl L/d |       |       |      | PLATES |      | GRIP           |          |
| TCLL                  | 20.0  | Plate Grip DOL 1.25  |  | TC        | 0.39 | Vert(LL)                  | -0.27 | 13-14 | >999 | 240    | MT20 |                | 244/190  |
| TCDL                  | 10.0  | Lumber DOL 1.25      |  | BC        | 1.00 | Vert(CT)                  | -0.50 | 13-14 | >644 | 180    |      |                |          |
| BCLL                  | 0.0 * | Rep Stress Incr YES  |  | WB        | 0.52 | Horz(CT)                  | 0.26  | 9     | n/a  | n/a    |      |                |          |
| BCDL                  | 10.0  | Code FBC2023/TPI2014 |  | Matrix-MS |      |                           |       |       |      |        |      | Weight: 208 lb | FT = 20% |

|                                                                                      |                                                                                                 |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| LUMBER-                                                                              | BRACING-                                                                                        |
| TOP CHORD 2x4 SP No.2                                                                | TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 *Except*                                                       | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:                          |
| 2-15: 2x4 SP No.1, 6-11: 2x4 SP No.3                                                 | 5-7-1 oc bracing: 14-15                                                                         |
| WEBS 2x4 SP No.3                                                                     | 2-2-0 oc bracing: 13-14.                                                                        |
|                                                                                      | 1 Row at midpt 2-14                                                                             |
|                                                                                      | 1 Row at midpt 5-13                                                                             |
| REACTIONS.                                                                           |                                                                                                 |
| (size) 16=0-5-8, 9=Mechanical                                                        |                                                                                                 |
| Max Horz 16=-163(LC 13)                                                              |                                                                                                 |
| Max Uplift 16=-280(LC 12), 9=-295(LC 13)                                             |                                                                                                 |
| Max Grav 16=1197(LC 2), 9=1175(LC 2)                                                 |                                                                                                 |
| FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |                                                                                                 |
| TOP CHORD 1-2=-595/158, 2-3=-779/278, 3-4=-1181/369, 4-5=-1010/363, 5-6=-1435/493,   |                                                                                                 |
| 6-7=-1439/406, 7-8=-1131/294, 1-16=-1278/325, 8-9=-1100/305                          |                                                                                                 |
| BOT CHORD 14-15=-741/216, 13-14=-272/983, 12-13=-157/1007, 6-12=-274/202             |                                                                                                 |
| WEBS 3-14=-552/190, 4-13=-89/346, 5-12=-295/542, 10-12=-217/990, 7-12=-47/322,       |                                                                                                 |
| 7-10=-608/204, 1-15=-248/1014, 8-10=-219/1064                                        |                                                                                                 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-0-0, Zone3 11-0-0 to 13-2-8, Zone2 13-2-8 to 17-2-1, Zone1 17-2-1 to 27-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 16 and 295 lb uplift at joint 9.

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Chesterfield, MO 63017  
Date:

October 2,2024

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|                          |       |              |     |     |             |           |
|--------------------------|-------|--------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158277 |
| 4190707                  | T13   | Roof Special | 3   | 1   |             |           |
| Job Reference (optional) |       |              |     |     |             |           |

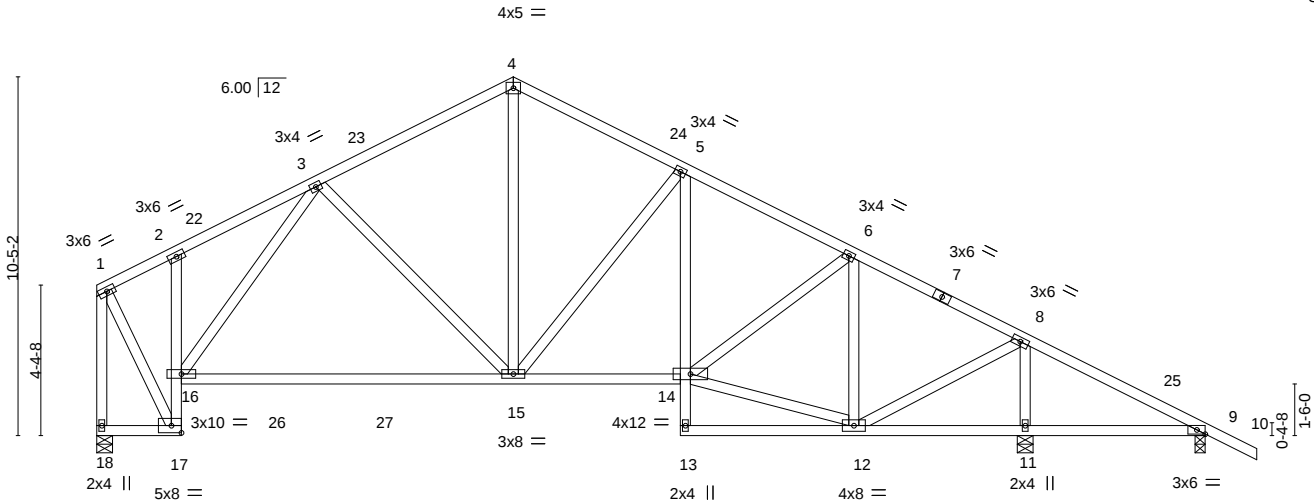
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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|       |       |        |         |        |          |        |        |
|-------|-------|--------|---------|--------|----------|--------|--------|
| 2-5-8 | 6-6-0 | 12-1-4 | 16-11-8 | 22-0-0 | 26-11-12 | 32-2-8 | 33-8-8 |
| 2-5-8 | 4-0-8 | 5-7-4  | 4-10-4  | 5-0-8  | 4-11-12  | 5-2-12 | 1-6-0  |

Scale = 1:67.0



|       |        |         |        |          |        |
|-------|--------|---------|--------|----------|--------|
| 2-5-8 | 12-1-4 | 16-11-8 | 22-0-0 | 26-11-12 | 32-2-8 |
| 2-5-8 | 9-7-12 | 4-10-4  | 5-0-8  | 4-11-12  | 5-2-12 |

|                       |       |                      |      |           |      |                           |             |             |     |                |          |
|-----------------------|-------|----------------------|------|-----------|------|---------------------------|-------------|-------------|-----|----------------|----------|
| Plate Offsets (X,Y)-- |       | [9:0-2-15,Edge]      |      |           |      |                           |             |             |     |                |          |
| LOADING (psf)         |       | SPACING- 2-0-0       |      | CSI.      |      | DEFL. in (loc) l/defl L/d |             | PLATES GRIP |     |                |          |
| TCLL                  | 20.0  | Plate Grip DOL       | 1.25 | TC        | 0.41 | Vert(LL)                  | -0.36 15-16 | >903        | 240 | MT20           | 244/190  |
| TCDL                  | 10.0  | Lumber DOL           | 1.25 | BC        | 0.78 | Vert(CT)                  | -0.63 15-16 | >511        | 180 |                |          |
| BCLL                  | 0.0 * | Rep Stress Incr      | YES  | WB        | 0.49 | Horz(CT)                  | 0.22 11     | n/a         | n/a |                |          |
| BCDL                  | 10.0  | Code FBC2023/TPI2014 |      | Matrix-MS |      |                           |             |             |     | Weight: 215 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-17: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31  
14-16: 2x4 SP No.1, 5-13: 2x4 SP No.3  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.**

(size) 18=0-5-8, 9=0-3-8, 11=0-5-8  
Max Horz 18=-310(LC 13)  
Max Uplift 18=-270(LC 12), 9=-133(LC 8), 11=-340(LC 13)  
Max Grav 18=1122(LC 2), 9=120(LC 26), 11=1695(LC 2)

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

TOP CHORD 1-2=-555/167, 2-3=-743/238, 3-4=-1040/370, 4-5=-1031/362, 5-6=-1223/385,  
6-8=-830/324, 8-9=-91/604, 1-18=-1191/341  
BOT CHORD 17-18=-77/308, 16-17=-685/254, 15-16=-186/969, 14-15=-109/1048, 11-12=-459/119,  
9-11=-459/119  
WEBS 3-16=-493/235, 4-15=-162/620, 5-15=-361/277, 12-14=-98/674, 6-14=-45/450,  
6-12=-680/167, 8-12=-202/1296, 8-11=-1482/358, 1-17=-264/937

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-1-4, Zone2 12-1-4 to 16-4-3, Zone1 16-4-3 to 33-8-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-6-0 tall by 2-0-0 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 270 lb uplift at joint 18, 133 lb uplift at joint 9 and 340 lb uplift at joint 11.

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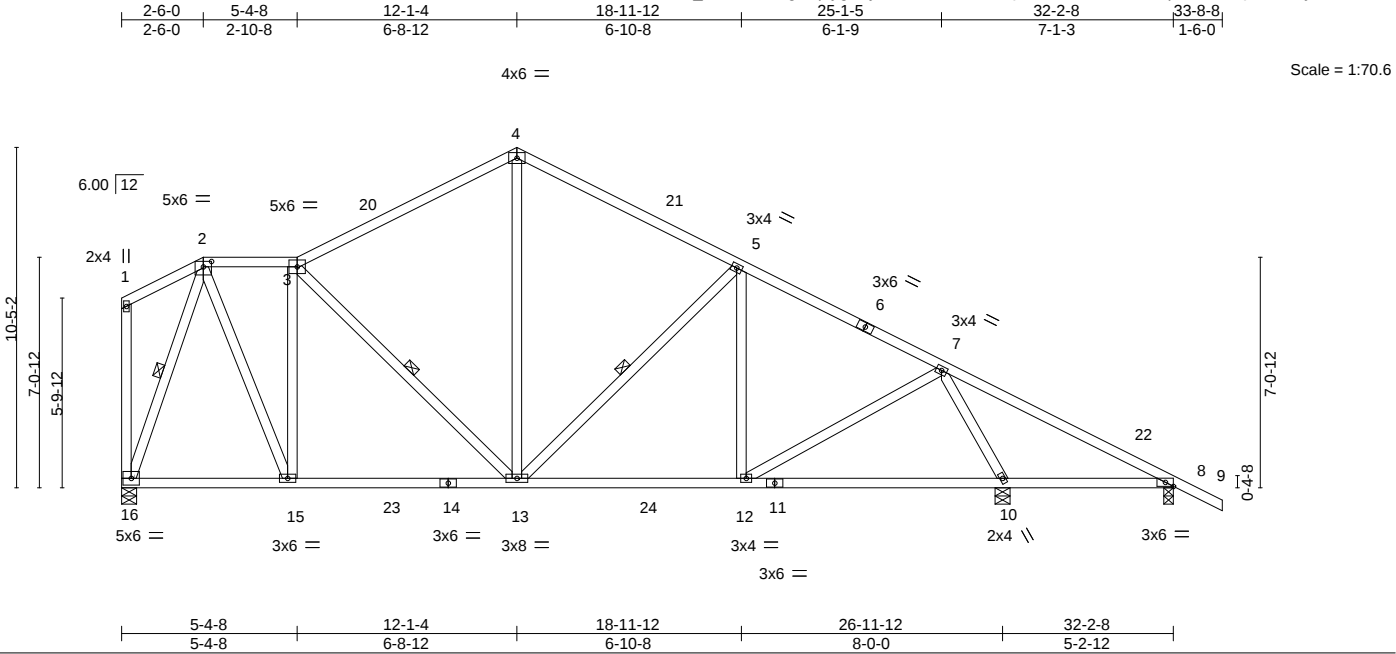
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|                          |       |              |     |     |             |           |
|--------------------------|-------|--------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158278 |
| 4190707                  | T14   | Roof Special | 1   | 1   |             |           |
| Job Reference (optional) |       |              |     |     |             |           |

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|                       |       |                                  |      |           |      |                           |       |       |             |     |                         |
|-----------------------|-------|----------------------------------|------|-----------|------|---------------------------|-------|-------|-------------|-----|-------------------------|
| Plate Offsets (X,Y)-- |       | [2:0-3-0,0-2-0], [8:0-2-15,Edge] |      |           |      |                           |       |       |             |     |                         |
| LOADING (psf)         |       | SPACING- 2-0-0                   |      | CSI.      |      | DEFL. in (loc) l/defl L/d |       |       | PLATES GRIP |     |                         |
| TCLL                  | 20.0  | Plate Grip DOL                   | 1.25 | TC        | 0.65 | Vert(LL)                  | -0.08 | 10-12 | >999        | 240 | MT20 244/190            |
| TCDL                  | 10.0  | Lumber DOL                       | 1.25 | BC        | 0.56 | Vert(CT)                  | -0.16 | 10-12 | >999        | 180 |                         |
| BCLL                  | 0.0 * | Rep Stress Incr                  | YES  | WB        | 0.62 | Horz(CT)                  | 0.03  | 10    | n/a         | n/a |                         |
| BCDL                  | 10.0  | Code FBC2023/TPI2014             |      | Matrix-MS |      |                           |       |       |             |     | Weight: 210 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-10.  
WEBS 1 Row at midpt 3-13, 5-13, 2-16

REACTIONS.

(size) 10=0-5-8, 16=0-5-8, 8=0-3-8  
Max Horz 16=-344(LC 13)  
Max Uplift 10=-349(LC 13), 16=-288(LC 12), 8=-118(LC 13)  
Max Grav 10=1583(LC 2), 16=1162(LC 2), 8=211(LC 26)

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

TOP CHORD 2-3=-742/286, 3-4=-941/370, 4-5=-950/360, 5-7=-1167/354, 7-8=-46/374  
BOT CHORD 15-16=-23/505, 13-15=-109/822, 12-13=-116/982, 10-12=-82/440, 8-10=-262/136  
WEBS 2-15=-272/1007, 3-15=-691/293, 4-13=-104/438, 5-13=-332/256, 7-12=-46/641, 7-10=-1458/405, 2-16=-1093/362

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 5-4-8, Zone1 5-4-8 to 12-1-4, Zone2 12-1-4 to 16-4-3, Zone1 16-4-3 to 33-8-8 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 10, 288 lb uplift at joint 16 and 118 lb uplift at joint 8.

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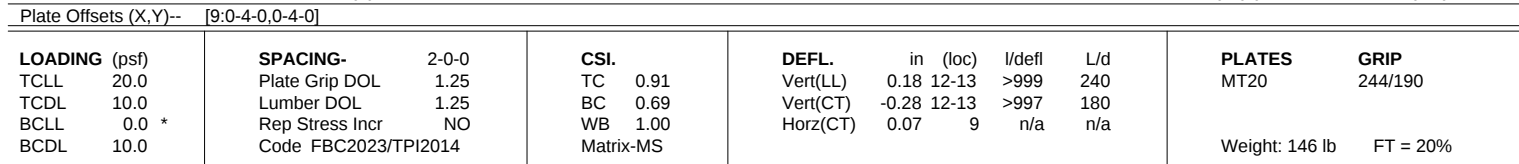
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Scale = 1:42.5



**REACTIONS.** (size) 9=0-3-8, 2=0-5-8  
 Max Horz 2=160(LC 29)  
 Max Uplift 9=-700(LC 5), 2=-892(LC 8)  
 Max Grav 9=1664(LC 1), 2=2014(LC 1)

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

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| TOP CHORD | 2-3=-3919/1798, 3-4=-3733/1783, 4-5=-3363/1639, 5-6=-2738/1192, 6-7=-3025/1309                   |
| BOT CHORD | 2-13=-1674/3464, 12-13=-1867/4015, 10-12=-1867/4015, 9-10=-1198/2762                             |
| WEBS      | 4-13=-556/1229, 5-13=-889/323, 5-10=-1682/869, 6-10=-529/1198, 7-9=-3030/1320,<br>5-12=-430/1027 |

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 700 lb uplift at joint 9 and 892 lb uplift at joint 2.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, and 121 lb down and 120 lb up at 9-0-12, and 121 lb down and 120 lb up at 11-0-12 on top chord, and 334 lb down and 331 lb up at 7-0-0, and 88 lb down and 75 lb up at 9-0-12, and 986 lb down and 465 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 2-9=-20

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|                          |       |                     |     |     |             |
|--------------------------|-------|---------------------|-----|-----|-------------|
| Job                      | Truss | Truss Type          | Qty | Ply | LANDER RES. |
| 4190707                  | T15   | Roof Special Girder | 1   | 1   | T35158279   |
| Job Reference (optional) |       |                     |     |     |             |

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 4=-121(B) 13=-334(B) 16=-121(B) 17=-121(B) 18=-67(B) 19=-986(B)

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

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|         |       |              |     |     |             |           |
|---------|-------|--------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158280 |
| 4190707 | T16   | Roof Special | 1   | 1   |             |           |

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

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ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-6Q\_U?ypQ51UMHIUI7ApRR\_eGud9HiTyjWO0z1wyXkAB

-1-6-0  
1-6-0

4-9-8  
4-9-8

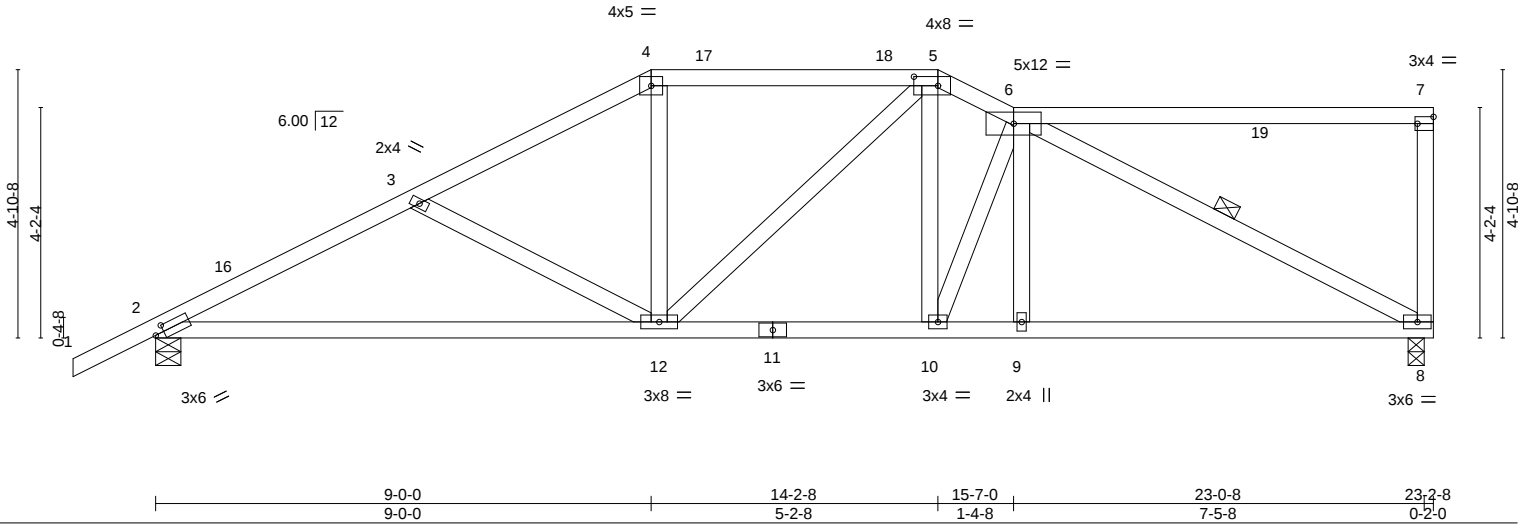
9-0-0  
4-2-8

14-2-8  
5-2-8

15-7-0  
1-4-8

23-2-8  
7-7-8

Scale = 1:41.8



|                                                                         |       |                      |      |           |      |                           |             |             |     |                         |
|-------------------------------------------------------------------------|-------|----------------------|------|-----------|------|---------------------------|-------------|-------------|-----|-------------------------|
| Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:Edge,0-1-8] |       |                      |      |           |      |                           |             |             |     |                         |
| LOADING (psf)                                                           |       | SPACING- 2-0-0       |      | CSI.      |      | DEFL. in (loc) l/defl L/d |             | PLATES GRIP |     |                         |
| TCLL                                                                    | 20.0  | Plate Grip DOL       | 1.25 | TC        | 0.71 | Vert(LL)                  | -0.14 12-15 | >999        | 240 | MT20 244/190            |
| TCDL                                                                    | 10.0  | Lumber DOL           | 1.25 | BC        | 0.72 | Vert(CT)                  | -0.30 12-15 | >908        | 180 |                         |
| BCLL                                                                    | 0.0 * | Rep Stress Incr      | YES  | WB        | 0.51 | Horz(CT)                  | 0.05 8      | n/a         | n/a |                         |
| BCDL                                                                    | 10.0  | Code FBC2023/TPI2014 |      | Matrix-MS |      |                           |             |             |     | Weight: 131 lb FT = 20% |

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                                        |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.                                   |
| WEBS 2x4 SP No.3      | WEBS 1 Row at midpt 6-8                                                                         |

|            |                                      |
|------------|--------------------------------------|
| REACTIONS. | (size) 8=0-3-8, 2=0-5-8              |
|            | Max Horz 2=202(LC 12)                |
|            | Max Uplift 8=277(LC 9), 2=272(LC 12) |
|            | Max Grav 8=920(LC 1), 2=1015(LC 1)   |

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.        |
| TOP CHORD | 2-3=-1615/552, 3-4=-1326/452, 4-5=-1138/449, 5-6=-1270/476                          |
| BOT CHORD | 2-12=-601/1416, 10-12=-404/1107, 9-10=-435/1246, 8-9=-433/1252                      |
| WEBS      | 3-12=-328/222, 4-12=-28/358, 5-10=-151/386, 6-10=-419/150, 6-9=0/308, 6-8=-1356/467 |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 14-2-8, Zone3 14-2-8 to 15-7-0, Zone1 15-7-0 to 23-0-12 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.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 8 and 272 lb uplift at joint 2.

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:

October 2,2024

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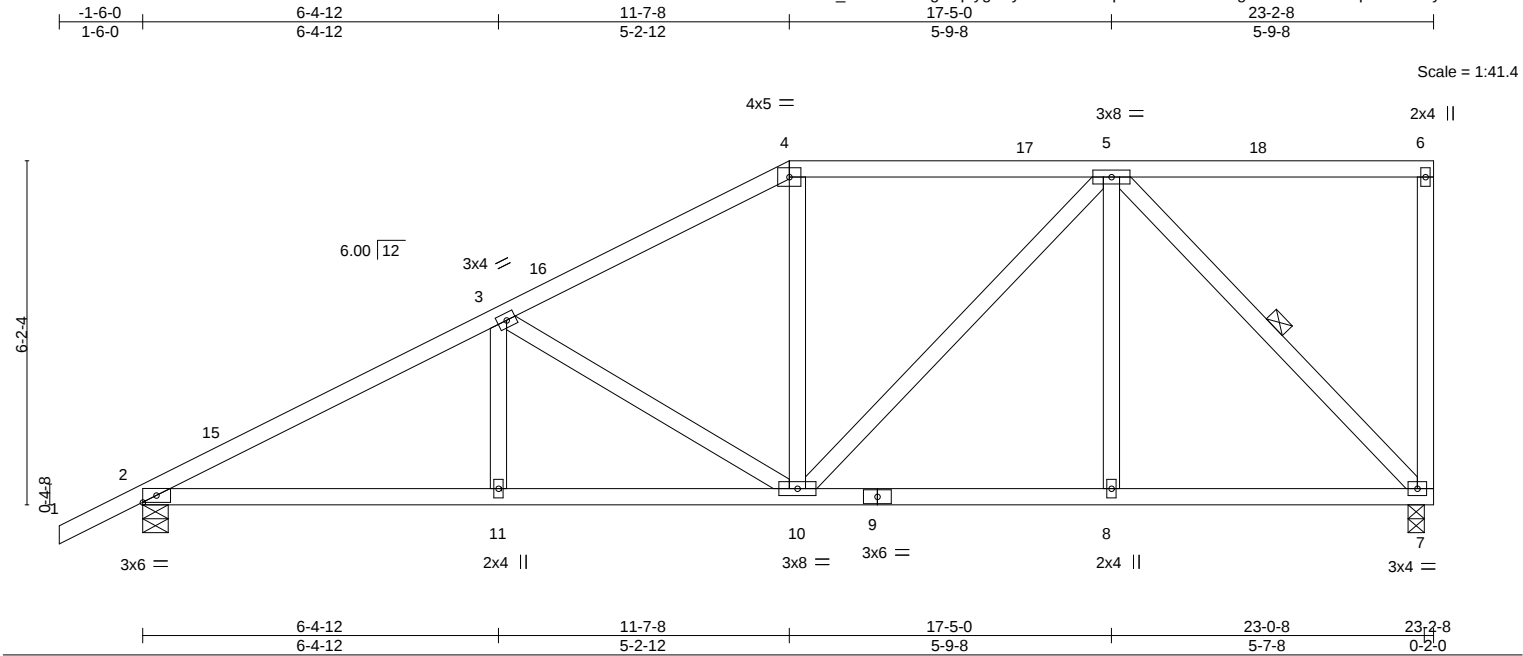
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158282 |
| 4190707 | T18   | Half Hip   | 1   | 1   | Job Reference (optional) |           |

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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.42   | Vert(LL) | 0.06 11-14  | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.49   | Vert(CT) | -0.12 11-14 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.40   | Horz(CT) | 0.04 7      | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |             |        |     | Weight: 135 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

REACTIONS.

(size) 7=0-3-8, 2=0-5-8  
Max Horz 2=275(LC 12)  
Max Uplift 7=-294(LC 9), 2=-322(LC 12)  
Max Grav 7=920(LC 1), 2=1015(LC 1)

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

TOP CHORD 2-3=-1602/463, 3-4=-1097/349, 4-5=-912/352  
BOT CHORD 2-11=-583/1369, 10-11=-583/1369, 8-10=-237/710, 7-8=-237/710  
WEBS 3-10=-539/269, 4-10=-4/252, 5-10=-167/292, 5-7=-1011/341

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 7 and 322 lb uplift at joint 2.

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:

October 2,2024

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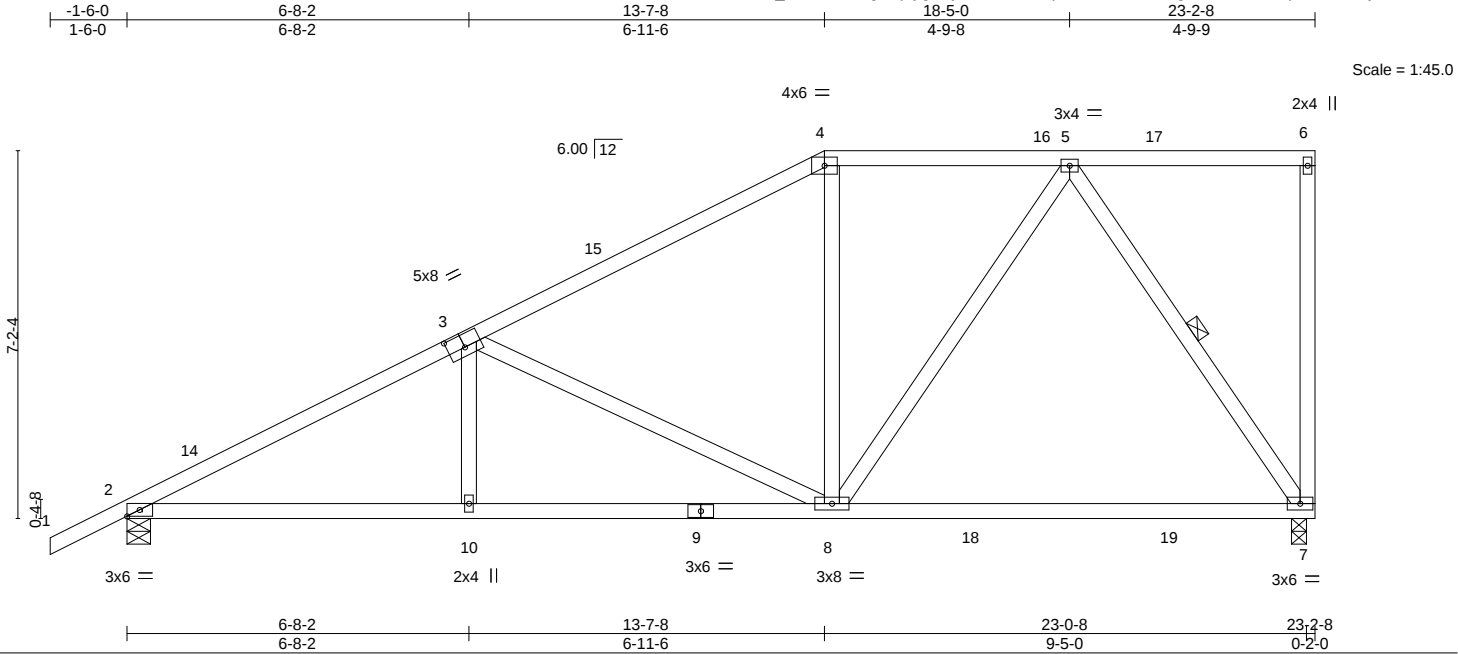
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158283 |
| 4190707 | T19   | Half Hip   | 1   | 1   | Job Reference (optional) |           |

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|                       |                      |       |           |          |           |        |     |                |          |
|-----------------------|----------------------|-------|-----------|----------|-----------|--------|-----|----------------|----------|
| Plate Offsets (X,Y)-- | [3:0-4-0,0-3-0]      |       |           |          |           |        |     |                |          |
| LOADING (psf)         | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0             | Plate Grip DOL       | 1.25  | TC 0.62   | Vert(LL) | -0.37 7-8 | >751   | 240 | MT20           | 244/190  |
| TCDL 10.0             | Lumber DOL           | 1.25  | BC 1.00   | Vert(CT) | -0.59 7-8 | >469   | 180 |                |          |
| BCLL 0.0 *            | Rep Stress Incr      | YES   | WB 0.82   | Horz(CT) | 0.04 7    | n/a    | n/a |                |          |
| BCDL 10.0             | Code FBC2023/TPI2014 |       | Matrix-MS |          |           |        |     | Weight: 133 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-5-8  
Max Horz 2=317(LC 12)  
Max Uplift 7=-289(LC 12), 2=-314(LC 12)  
Max Grav 7=1024(LC 2), 2=1069(LC 2)

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

TOP CHORD 2-3=-1695/457, 3-4=-1052/277, 4-5=-864/302  
BOT CHORD 2-10=-622/1482, 8-10=-621/1491, 7-8=-191/528  
WEBS 3-10=0/254, 3-8=-696/349, 5-8=-198/602, 5-7=-907/345

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-7-8, Zone2 13-7-8 to 17-10-7, Zone1 17-10-7 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 289 lb uplift at joint 7 and 314 lb uplift at joint 2.

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.

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Chesterfield, MO 63017  
Date:

October 2,2024

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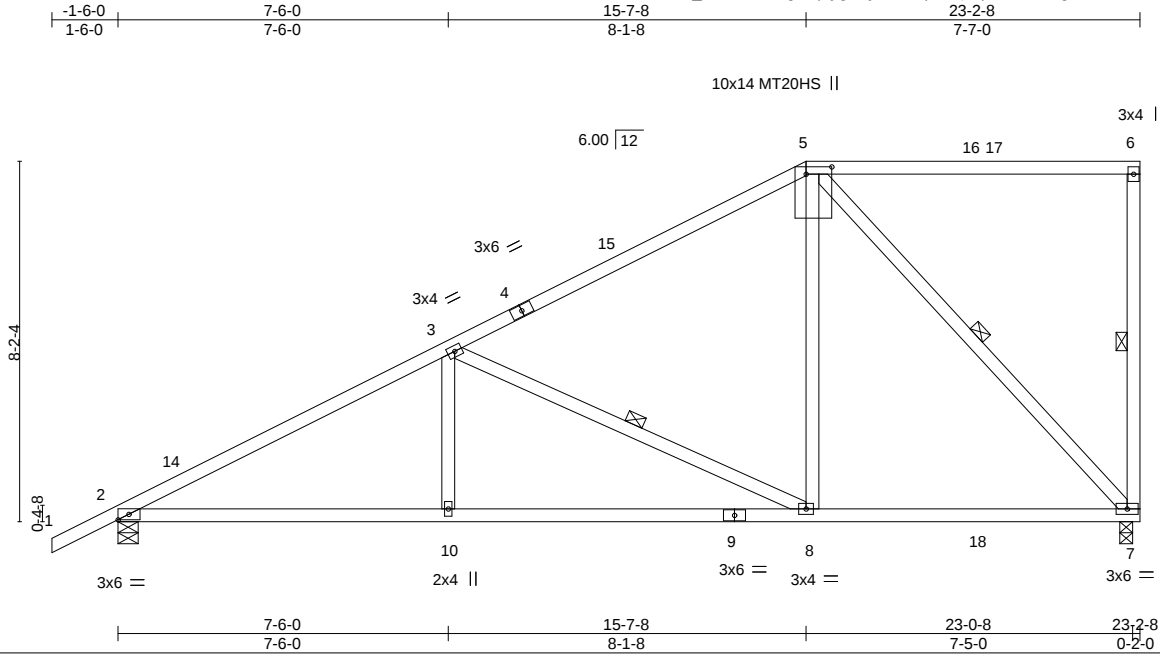
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158284 |
| 4190707 | T20   | Half Hip   | 1   | 1   | Job Reference (optional) |           |

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|                       |       |                      |  |           |      |                           |       |     |      |        |                |         |          |  |
|-----------------------|-------|----------------------|--|-----------|------|---------------------------|-------|-----|------|--------|----------------|---------|----------|--|
| Plate Offsets (X,Y)-- |       | [5:0-2-0,0-7-0]      |  |           |      |                           |       |     |      |        |                |         |          |  |
| LOADING (psf)         |       | SPACING- 2-0-0       |  | CSI.      |      | DEFL. in (loc) l/defl L/d |       |     |      | PLATES |                | GRIP    |          |  |
| TCLL                  | 20.0  | Plate Grip DOL 1.25  |  | TC        | 0.77 | Vert(LL)                  | -0.13 | 7-8 | >999 | 240    | MT20           | 244/190 |          |  |
| TCDL                  | 10.0  | Lumber DOL 1.25      |  | BC        | 0.75 | Vert(CT)                  | -0.20 | 7-8 | >999 | 180    | MT20HS         | 187/143 |          |  |
| BCLL                  | 0.0 * | Rep Stress Incr YES  |  | WB        | 0.59 | Horz(CT)                  | 0.04  | 7   | n/a  | n/a    |                |         |          |  |
| BCDL                  | 10.0  | Code FBC2023/TPI2014 |  | Matrix-MS |      |                           |       |     |      |        | Weight: 131 lb |         | FT = 20% |  |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-4-1 oc bracing.  
WEBS 1 Row at midpt 6-7, 3-8, 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-5-8  
Max Horz 2=359(LC 12)  
Max Uplift 7=-316(LC 12), 2=-304(LC 12)  
Max Grav 7=1020(LC 2), 2=1071(LC 2)

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

TOP CHORD 2-3=-1662/416, 3-5=-870/212  
BOT CHORD 2-10=-618/1446, 8-10=-618/1446, 7-8=-257/702  
WEBS 3-10=0/330, 3-8=-839/401, 5-8=-112/694, 5-7=-998/369

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-7-8, Zone2 15-7-8 to 19-10-7, Zone1 19-10-7 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 7 and 304 lb uplift at joint 2.

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:

October 2,2024

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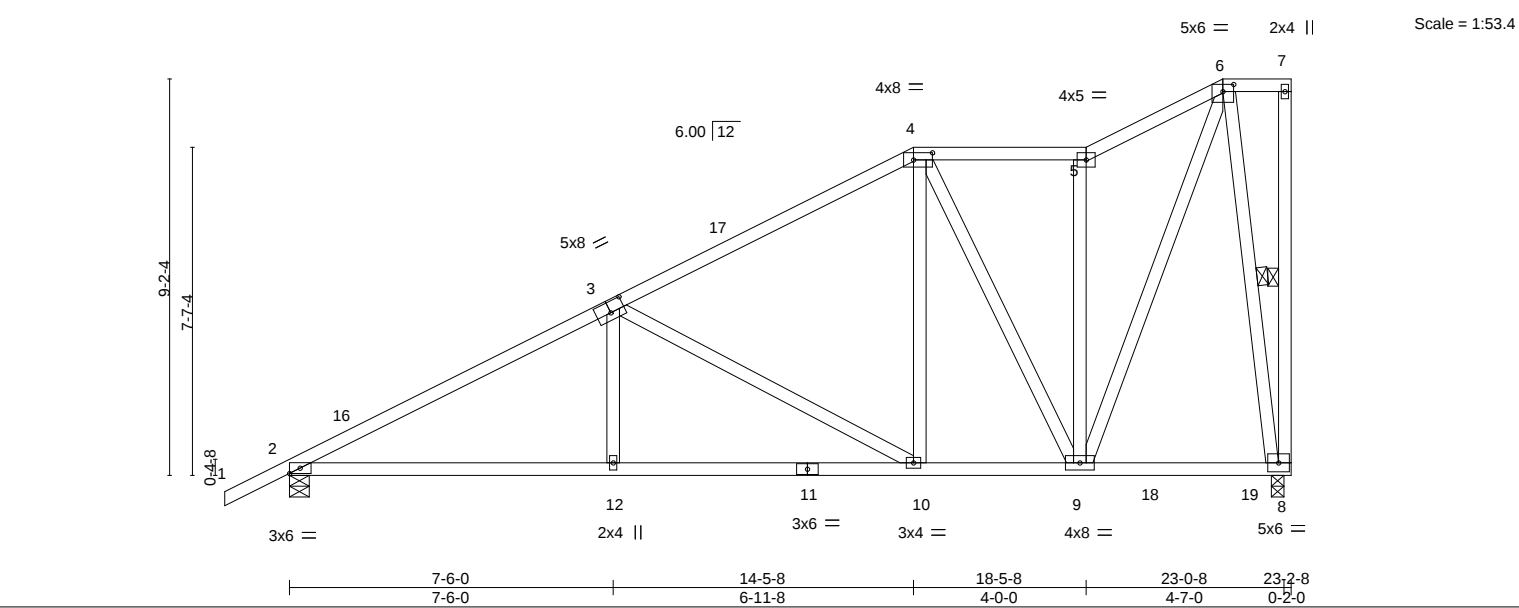
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|         |       |              |     |     |             |           |
|---------|-------|--------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158285 |
| 4190707 | T21   | Roof Special | 1   | 1   |             |           |

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|                       |  |                                                   |  |           |  |          |             |        |     |                |          |
|-----------------------|--|---------------------------------------------------|--|-----------|--|----------|-------------|--------|-----|----------------|----------|
| Plate Offsets (X,Y)-- |  | [3:0-4-0,0-3-0], [4:0-5-4,0-2-0], [6:0-3-0,0-2-0] |  |           |  |          |             |        |     |                |          |
| LOADING (psf)         |  | SPACING- 2-0-0                                    |  | CSI.      |  | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0             |  | Plate Grip DOL 1.25                               |  | TC 0.61   |  | Vert(LL) | -0.10 12-15 | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0             |  | Lumber DOL 1.25                                   |  | BC 0.69   |  | Vert(CT) | -0.21 12-15 | >999   | 180 |                |          |
| BCLL 0.0 *            |  | Rep Stress Incr YES                               |  | WB 0.96   |  | Horz(CT) | 0.04 8      | n/a    | n/a |                |          |
| BCDL 10.0             |  | Code FBC2023/TPI2014                              |  | Matrix-MS |  |          |             |        |     | Weight: 164 lb | FT = 20% |

|                       |                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                                         |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-0-12 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.                                    |
| WEBS 2x4 SP No.3      | WEBS 1 Row at midpt 7-8, 6-8                                                                     |

|            |                                         |
|------------|-----------------------------------------|
| REACTIONS. | (size) 8=0-3-8, 2=0-5-8                 |
|            | Max Horz 2=402(LC 12)                   |
|            | Max Uplift 8=-369(LC 12), 2=-293(LC 12) |
|            | Max Grav 8=1009(LC 2), 2=1061(LC 2)     |

|           |                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                      |
| TOP CHORD | 2-3=-1636/389, 3-4=-920/218, 4-5=-521/136, 5-6=-628/200                                           |
| BOT CHORD | 2-12=-635/1422, 10-12=-634/1431, 9-10=-320/752                                                    |
| WEBS      | 3-12=0/321, 3-10=-779/357, 4-10=-128/541, 4-9=-494/250, 5-9=-441/205, 6-9=-417/1097, 6-8=-895/388 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-5-8, Zone3 14-5-8 to 18-5-8, Zone1 18-5-8 to 21-7-8, Zone3 21-7-8 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 8 and 293 lb uplift at joint 2.

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

October 2,2024

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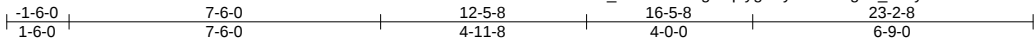
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|         |       |              |     |     |             |           |
|---------|-------|--------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158286 |
| 4190707 | T22   | Roof Special | 1   | 1   |             |           |

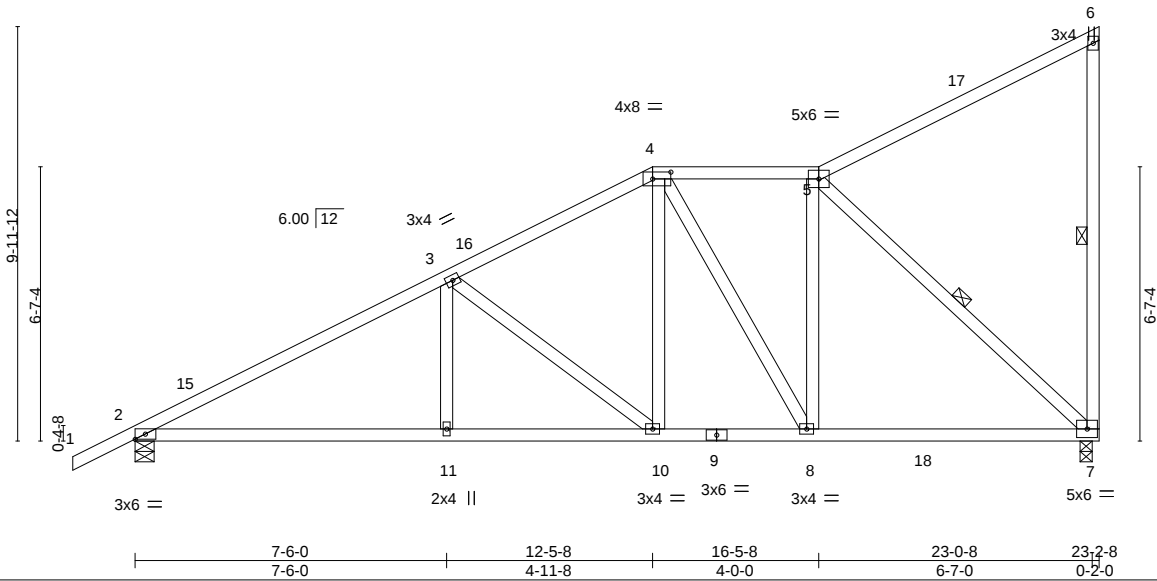
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:25 2024 Page 1

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Scale = 1:55.5



|                       |       |                      |  |           |      |                           |       |       |      |                |      |          |  |
|-----------------------|-------|----------------------|--|-----------|------|---------------------------|-------|-------|------|----------------|------|----------|--|
| Plate Offsets (X,Y)-- |       | [4:0-5-4,0-2-0]      |  |           |      |                           |       |       |      |                |      |          |  |
| LOADING (psf)         |       | SPACING- 2-0-0       |  | CSI.      |      | DEFL. in (loc) l/defl L/d |       |       |      | PLATES         |      | GRIP     |  |
| TCLL                  | 20.0  | Plate Grip DOL 1.25  |  | TC        | 0.59 | Vert(LL)                  | -0.11 | 11-14 | >999 | 240            | MT20 | 244/190  |  |
| TCDL                  | 10.0  | Lumber DOL 1.25      |  | BC        | 0.70 | Vert(CT)                  | -0.23 | 11-14 | >999 | 180            |      |          |  |
| BCLL                  | 0.0 * | Rep Stress Incr YES  |  | WB        | 0.49 | Horz(CT)                  | 0.04  | 7     | n/a  | n/a            |      |          |  |
| BCDL                  | 10.0  | Code FBC2023/TPI2014 |  | Matrix-MS |      |                           |       |       |      |                |      |          |  |
|                       |       |                      |  |           |      |                           |       |       |      | Weight: 145 lb |      | FT = 20% |  |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-2-0 oc bracing.  
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-5-8  
Max Horz 2=432(LC 12)  
Max Uplift 7=-406(LC 12), 2=-282(LC 12)  
Max Grav 7=1008(LC 2), 2=1067(LC 2)

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

TOP CHORD 2-3=-1644/355, 3-4=-1079/249, 4-5=-801/166  
BOT CHORD 2-11=-629/1410, 10-11=-629/1410, 8-10=-397/909, 7-8=-303/790  
WEBS 3-11=0/295, 3-10=-641/294, 4-10=-149/466, 5-8=-111/448, 5-7=-1078/412

NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-5-8, Zone3 12-5-8 to 16-5-8, Zone1 16-5-8 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 406 lb uplift at joint 7 and 282 lb uplift at joint 2.

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Chesterfield, MO 63017  
Date:

October 2,2024

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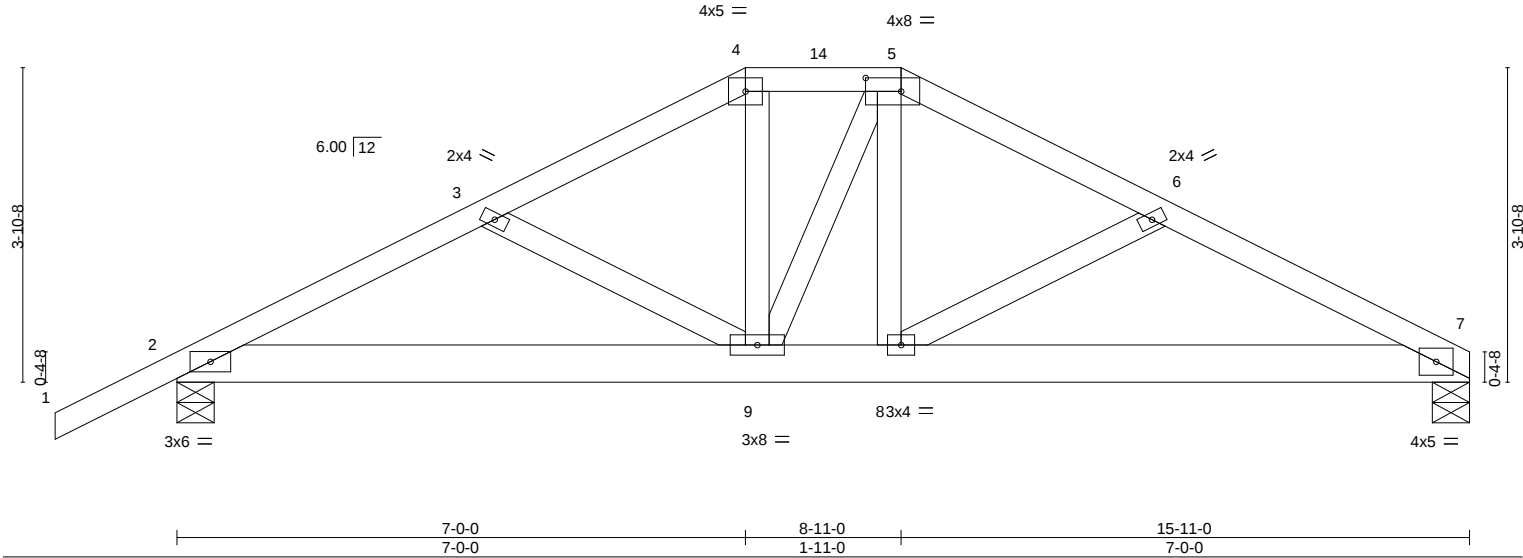
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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|                          |       |            |     |     |             |           |
|--------------------------|-------|------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158287 |
| 4190707                  | T23   | Hip Girder | 1   | 1   |             |           |
| Job Reference (optional) |       |            |     |     |             |           |

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ID:SuK\_nl4MV6d2dgtVq4ygAeyXsle-X?gde\_rJOysx8DDsolM83cGuqqFWvt99CMEdeFyXkA8  
1-6-0 3-10-15 7-0-0 8-11-0 12-0-1 15-11-0  
1-6-0 3-10-15 3-1-1 1-11-0 3-1-1 3-10-15  
Scale = 1:28.4



|                       |       |                 |                 |           |      |          |       |               |          |
|-----------------------|-------|-----------------|-----------------|-----------|------|----------|-------|---------------|----------|
| Plate Offsets (X,Y)-- |       | [5:0-5-4,0-2-0] |                 |           |      |          |       |               |          |
| LOADING (psf)         |       | SPACING-        |                 | CSI.      |      | DEFL.    |       | PLATES        |          |
| TCLL                  | 20.0  | Plate Grip DOL  | 1.25            | TC        | 0.28 | Vert(LL) | 0.08  | MT20          | 244/190  |
| TCDL                  | 10.0  | Lumber DOL      | 1.25            | BC        | 0.50 | Vert(CT) | -0.11 |               |          |
| BCLL                  | 0.0 * | Rep Stress Incr | NO              | WB        | 0.22 | Horz(CT) | 0.03  |               |          |
| BCDL                  | 10.0  | Code            | FBC2023/TPI2014 | Matrix-MS |      |          |       | Weight: 91 lb | FT = 20% |

|           |             |           |                                                                  |
|-----------|-------------|-----------|------------------------------------------------------------------|
| LUMBER-   |             | BRACING-  |                                                                  |
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 3-10-1 oc purlins. |
| BOT CHORD | 2x6 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 7-0-6 oc bracing.              |
| WEBS      | 2x4 SP No.3 |           |                                                                  |

|            |  |            |                            |
|------------|--|------------|----------------------------|
| REACTIONS. |  | (size)     | 7=0-5-8, 2=0-5-8           |
|            |  | Max Horz   | 2=92(LC 8)                 |
|            |  | Max Uplift | 7=-595(LC 9), 2=-641(LC 8) |
|            |  | Max Grav   | 7=1135(LC 1), 2=1223(LC 1) |

|           |                                                                                |                                                                              |
|-----------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| FORCES.   |                                                                                | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-2154/1229, 3-4=-1952/1153, 4-5=-1726/1073, 5-6=-1974/1166, 6-7=-2186/1237 |                                                                              |
| BOT CHORD | 2-9=-1110/1904, 8-9=-983/1742, 7-8=-1055/1937                                  |                                                                              |
| WEBS      | 4-9=-368/585, 5-8=-356/554                                                     |                                                                              |

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint 7 and 641 lb uplift at joint 2.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 119 lb up at 7-0-0, and 253 lb down and 227 lb up at 8-11-0 on top chord, and 334 lb down and 331 lb up at 7-0-0, and 334 lb down and 331 lb up at 8-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

|                                                                           |  |
|---------------------------------------------------------------------------|--|
| LOAD CASE(S) Standard                                                     |  |
| 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 |  |
| Uniform Loads (plf)                                                       |  |
| Vert: 1-4=-60, 4-5=-60, 5-7=-60, 2-7=-20                                  |  |
| Concentrated Loads (lb)                                                   |  |
| Vert: 4=-121(F) 5=-206(F) 9=-334(F) 8=-334(F)                             |  |

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Chesterfield, MO 63017  
Date:

October 2,2024

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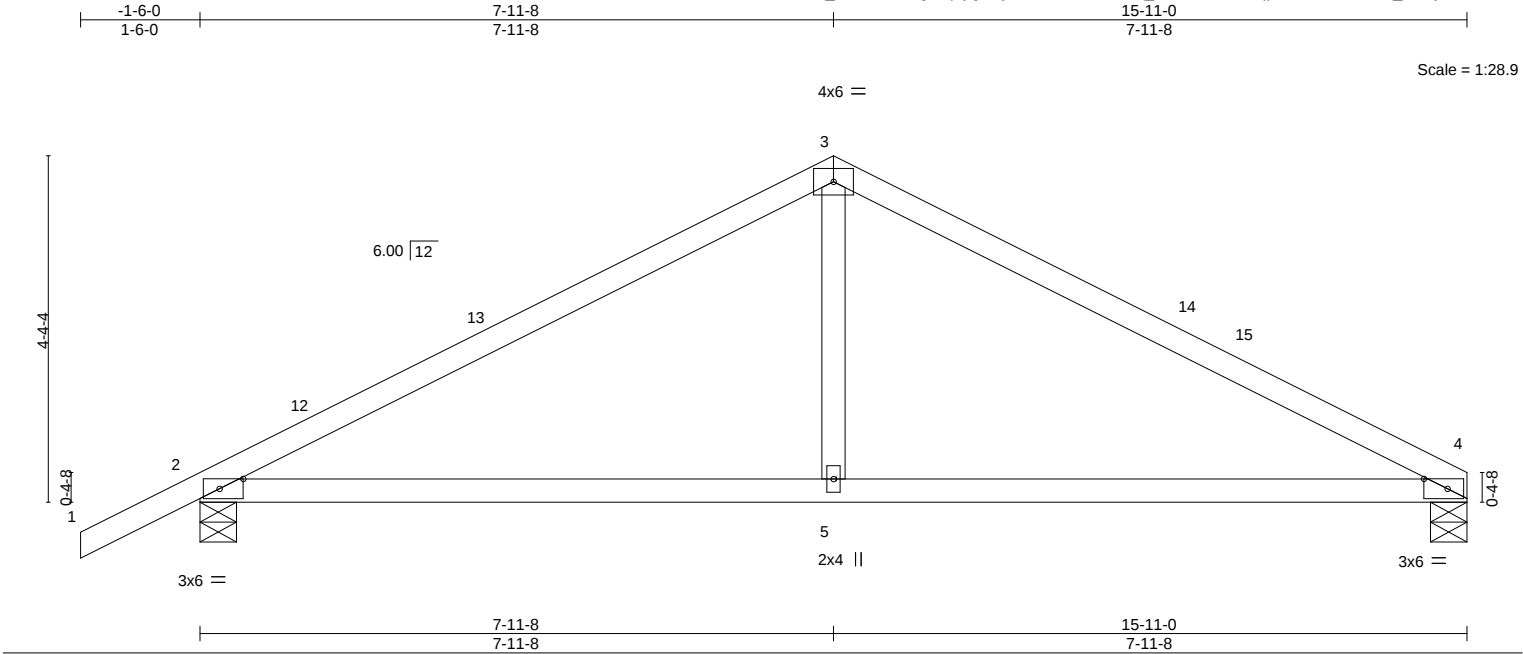
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158288 |
| 4190707 | T24   | Common     | 1   | 1   | Job Reference (optional) |           |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:26 2024 Page 1  
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| Plate Offsets (X,Y)-- |                 | [2:0-3-9,Edge], [4:0-3-9,Edge] |                             |
|-----------------------|-----------------|--------------------------------|-----------------------------|
| LOADING (psf)         | SPACING-        | 2-0-0                          | CSI.                        |
| TCLL 20.0             | Plate Grip DOL  | 1.25                           | TC 0.86                     |
| TCDL 10.0             | Lumber DOL      | 1.25                           | BC 0.70                     |
| BCLL 0.0 *            | Rep Stress Incr | YES                            | WB 0.14                     |
| BCDL 10.0             | Code            | FBC2023/TPI2014                | Matrix-MS                   |
|                       |                 |                                | DEFL.                       |
|                       |                 |                                | in (loc) l/defl L/d         |
|                       |                 |                                | Vert(LL) 0.15 5-8 >999 240  |
|                       |                 |                                | Vert(CT) -0.26 5-8 >744 180 |
|                       |                 |                                | Horz(CT) 0.01 4 n/a n/a     |
|                       |                 |                                | PLATES GRIP                 |
|                       |                 |                                | MT20 244/190                |
|                       |                 |                                | Weight: 59 lb FT = 20%      |

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

|            |                                         |
|------------|-----------------------------------------|
| REACTIONS. | (size) 4=0-5-8, 2=0-5-8                 |
|            | Max Horz 2=100(LC 12)                   |
|            | Max Uplift 4=-176(LC 13), 2=-222(LC 12) |
|            | Max Grav 4=632(LC 1), 2=731(LC 1)       |

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 2-3=-909/340, 3-4=-907/351                                                   |
| BOT CHORD | 2-5=-195/727, 4-5=-195/727                                                   |
| WEBS      | 3-5=-21/377                                                                  |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-11-8, Zone2 7-11-8 to 12-2-7, Zone1 12-2-7 to 15-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 4 and 222 lb uplift at joint 2.

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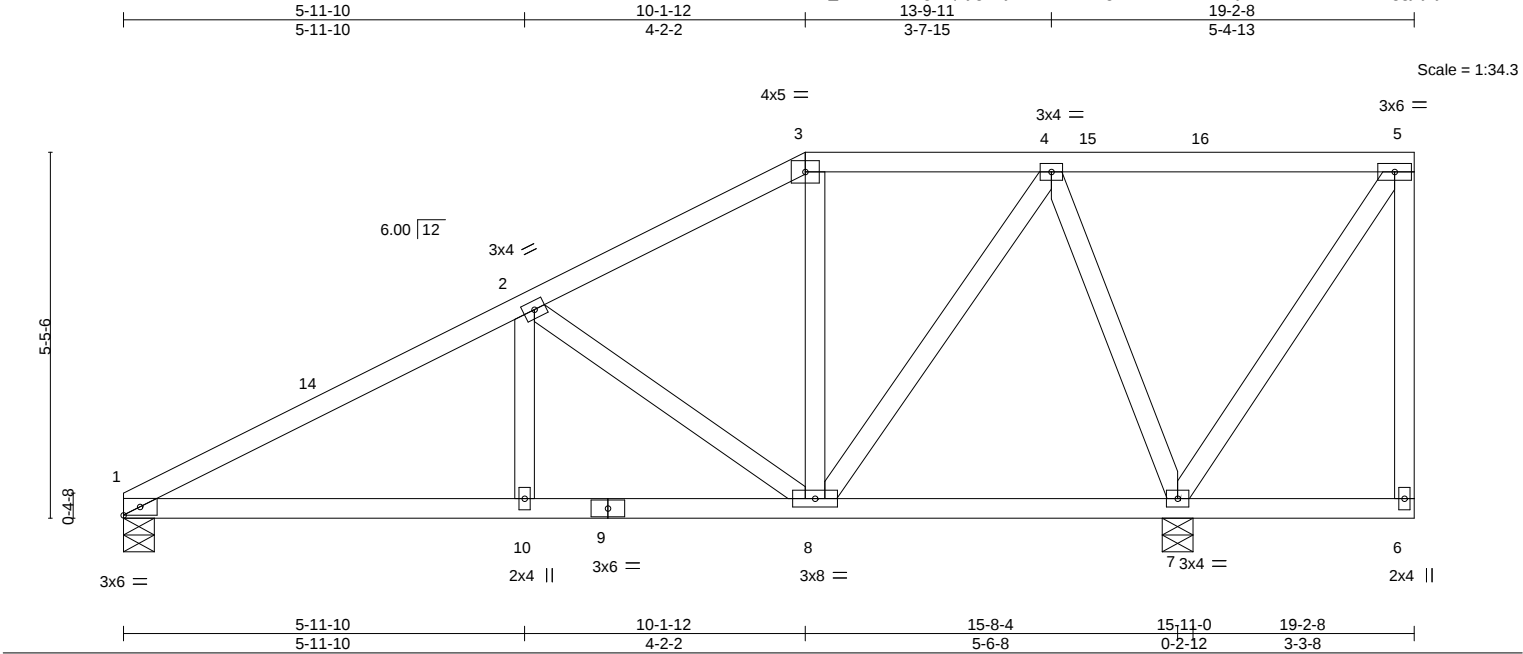


|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158290 |
| 4190707 | T26   | Half Hip   | 1   | 1   | Job Reference (optional) |           |

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8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:27 2024 Page 1

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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
|---------------|----------------------|-------|-----------|----------|-------------|--------|-----|----------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.34   | Vert(LL) | 0.06 10-13  | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.40   | Vert(CT) | -0.09 10-13 | >999   | 180 |                |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.42   | Horz(CT) | 0.01 7      | n/a    | n/a |                |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-MS |          |             |        |     | Weight: 110 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.

REACTIONS.

(size) 1=0-5-8, 7=0-5-8  
Max Horz 1=216(LC 12)  
Max Uplift 1=-226(LC 9), 7=-526(LC 9)  
Max Grav 1=598(LC 1), 7=927(LC 1)

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

TOP CHORD 1-2=-937/486, 2-3=-497/277, 3-4=-381/268  
BOT CHORD 1-10=-558/782, 8-10=-558/782  
WEBS 2-8=-492/356, 4-8=-316/413, 4-7=-707/427

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-1-12, Zone2 10-1-12 to 14-4-11, Zone1 14-4-11 to 19-0-12 zone; cantilever right exposed ; porch 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 1 and 526 lb uplift at joint 7.

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:

October 2,2024

**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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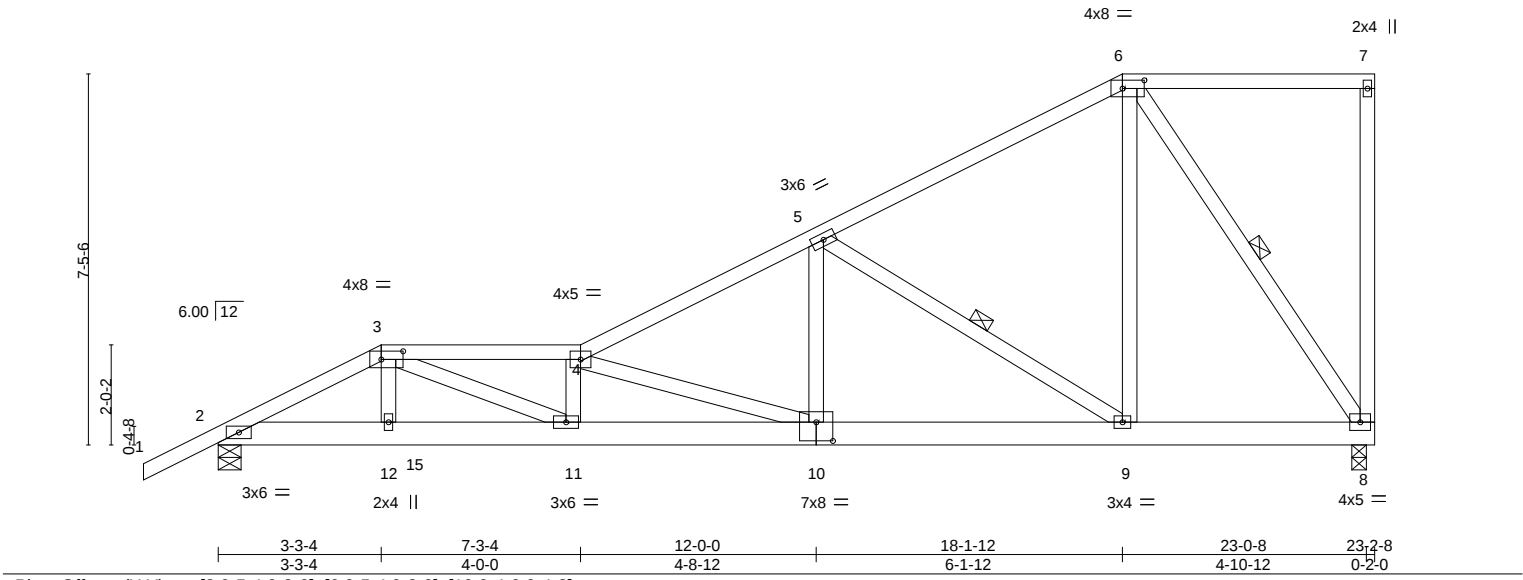
|         |       |                     |     |     |                          |           |
|---------|-------|---------------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type          | Qty | Ply | LANDER RES.              | T35158292 |
| 4190707 | T28   | Roof Special Girder | 1   | 1   | Job Reference (optional) |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:28 2024 Page 1  
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Scale = 1:46.2



|                       |  |                                                    |  |           |  |                      |        |     |                |          |
|-----------------------|--|----------------------------------------------------|--|-----------|--|----------------------|--------|-----|----------------|----------|
| Plate Offsets (X,Y)-- |  | [3:0-5-4,0-2-0], [6:0-5-4,0-2-0], [10:0-4-0,0-4-8] |  |           |  |                      |        |     |                |          |
| LOADING (psf)         |  | SPACING- 2-0-0                                     |  | CSI.      |  | DEFL. in (loc)       | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0             |  | Plate Grip DOL 1.25                                |  | TC 0.51   |  | Vert(LL) 0.15 10-11  | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0             |  | Lumber DOL 1.25                                    |  | BC 0.75   |  | Vert(CT) -0.28 10-11 | >991   | 180 |                |          |
| BCLL 0.0 *            |  | Rep Stress Incr NO                                 |  | WB 0.99   |  | Horz(CT) 0.05 8      | n/a    | n/a |                |          |
| BCDL 10.0             |  | Code FBC2023/TPI2014                               |  | Matrix-MS |  |                      |        |     | Weight: 158 lb | FT = 20% |

|                                       |                                                                                                  |
|---------------------------------------|--------------------------------------------------------------------------------------------------|
| LUMBER-                               | BRACING-                                                                                         |
| TOP CHORD 2x4 SP No.2                 | TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.2                 | BOT CHORD Rigid ceiling directly applied or 6-4-10 oc bracing.                                   |
| WEBS 2x4 SP No.3                      | WEBS 1 Row at midpt 5-9, 6-8                                                                     |
| REACTIONS.                            |                                                                                                  |
| (size) 8=0-3-8, 2=0-5-8               |                                                                                                  |
| Max Horz 2=328(LC 8)                  |                                                                                                  |
| Max Uplift 8=-327(LC 8), 2=-512(LC 8) |                                                                                                  |
| Max Grav 8=1000(LC 1), 2=1409(LC 1)   |                                                                                                  |

|           |                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                                            |
| TOP CHORD | 2-3=-2713/954, 3-4=-3431/1101, 4-5=-1835/525, 5-6=-720/180                                                              |
| BOT CHORD | 2-12=-1105/2393, 11-12=-1125/2445, 10-11=-1342/3465, 9-10=-654/1613, 8-9=-214/579                                       |
| WEBS      | 3-12=-231/594, 3-11=-335/1071, 4-11=-382/207, 4-10=-1959/727, 5-10=-216/803, 5-9=-1243/526, 6-9=-241/776, 6-8=-1002/373 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 8 and 512 lb uplift at joint 2.
  - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 69 lb up at 3-3-4, and 455 lb down and 188 lb up at 3-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

|                                                                           |
|---------------------------------------------------------------------------|
| LOAD CASE(S) Standard                                                     |
| 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 |
| Uniform Loads (plf)                                                       |
| Vert: 1-3=-60, 3-4=-60, 4-6=-60, 6-7=-60, 2-8=-20                         |
| Concentrated Loads (lb)                                                   |
| Vert: 12=-30(F) 15=-444(F)                                                |

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.

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Chesterfield, MO 63017  
Date:

October 2,2024

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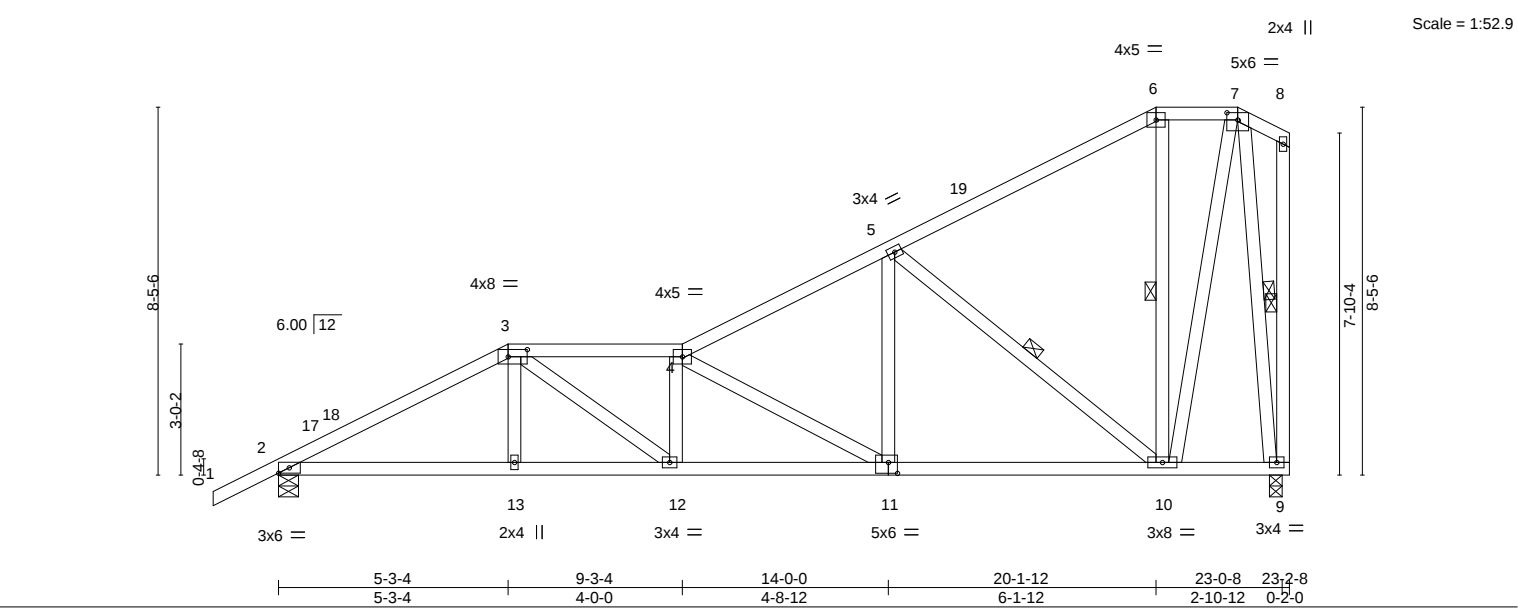
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

|         |       |              |     |     |             |           |
|---------|-------|--------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158293 |
| 4190707 | T29   | Roof Special | 1   | 1   |             |           |

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

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|                       |  |                                                    |  |           |  |          |             |        |     |                |          |
|-----------------------|--|----------------------------------------------------|--|-----------|--|----------|-------------|--------|-----|----------------|----------|
| Plate Offsets (X,Y)-- |  | [3:0-5-4,0-2-0], [7:0-3-0,0-2-0], [11:0-2-8,0-3-0] |  |           |  |          |             |        |     |                |          |
| LOADING (psf)         |  | SPACING- 2-0-0                                     |  | CSI.      |  | DEFL.    | in (loc)    | l/defl | L/d | PLATES         | GRIP     |
| TCLL 20.0             |  | Plate Grip DOL 1.25                                |  | TC 0.40   |  | Vert(LL) | -0.08 12    | >999   | 240 | MT20           | 244/190  |
| TCDL 10.0             |  | Lumber DOL 1.25                                    |  | BC 0.53   |  | Vert(CT) | -0.16 11-12 | >999   | 180 |                |          |
| BCLL 0.0 *            |  | Rep Stress Incr YES                                |  | WB 0.56   |  | Horz(CT) | 0.05 9      | n/a    | n/a |                |          |
| BCDL 10.0             |  | Code FBC2023/TPI2014                               |  | Matrix-MS |  |          |             |        |     | Weight: 161 lb | FT = 20% |

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                                        |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.2 | BOT CHORD Rigid ceiling directly applied or 6-11-12 oc bracing.                                 |
| WEBS 2x4 SP No.3      | WEBS 1 Row at midpt 5-10, 6-10, 7-9, 8-9                                                        |

|            |                                         |
|------------|-----------------------------------------|
| REACTIONS. | (size) 2=0-5-8, 9=0-3-8                 |
|            | Max Horz 2=357(LC 12)                   |
|            | Max Uplift 2=-307(LC 12), 9=-328(LC 12) |
|            | Max Grav 2=1015(LC 1), 9=920(LC 1)      |

|           |                                                                                                       |
|-----------|-------------------------------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                          |
| TOP CHORD | 2-3=-1631/435, 3-4=-1862/502, 4-5=-1217/293, 5-6=-416/102, 6-7=-288/140                               |
| BOT CHORD | 2-13=-647/1398, 12-13=-646/1404, 11-12=-724/1876, 10-11=-433/1048                                     |
| WEBS      | 3-12=-107/561, 4-12=-263/87, 4-11=-955/337, 5-11=-134/607, 5-10=-973/412, 7-10=-341/854, 7-9=-853/327 |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-3-4, Zone3 5-3-4 to 9-3-4, Zone1 9-3-4 to 20-1-12, Zone3 20-1-12 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 2 and 328 lb uplift at joint 9.

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16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

October 2,2024

|         |       |              |     |     |             |           |
|---------|-------|--------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158294 |
| 4190707 | T30   | Roof Special | 1   | 1   |             |           |

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

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:29 2024 Page 1

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-1-6-0  
1-6-0

7-3-4  
7-3-4

11-3-4  
4-0-0

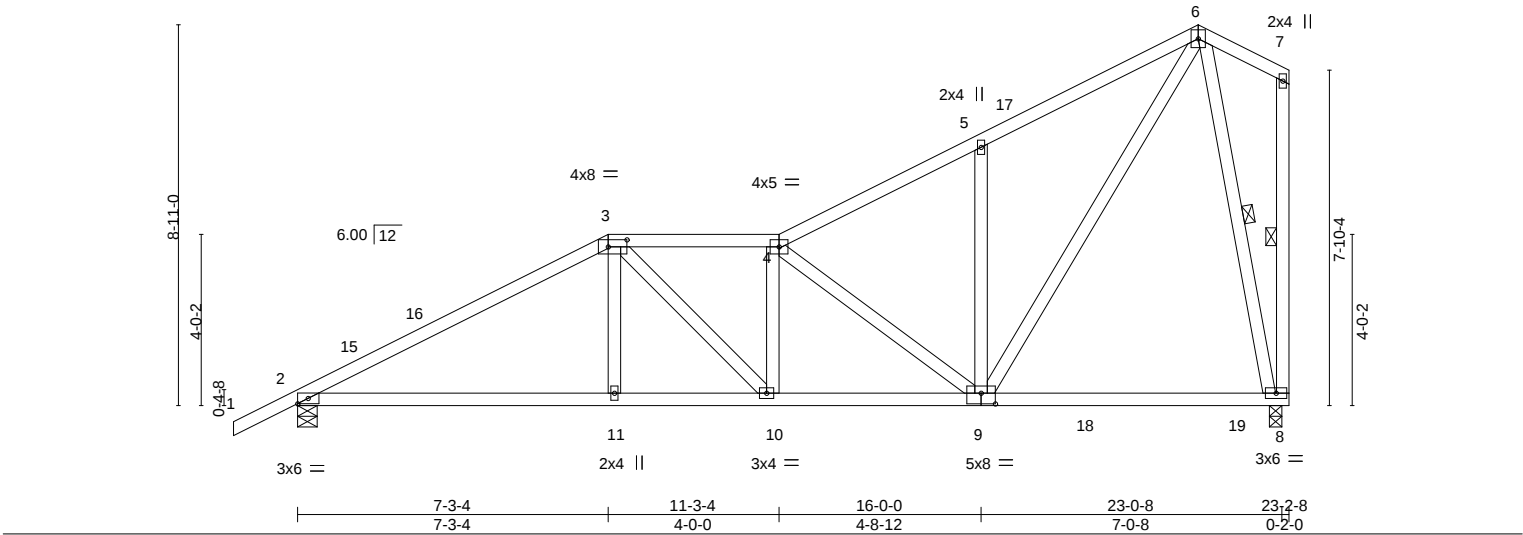
16-0-0  
4-8-12

21-1-0  
5-1-0

23-2-8  
2-1-8

4x5 ||

Scale = 1:53.9



|                       |       |                                  |  |           |      |                           |       |       |      |        |                |         |          |  |
|-----------------------|-------|----------------------------------|--|-----------|------|---------------------------|-------|-------|------|--------|----------------|---------|----------|--|
| Plate Offsets (X,Y)-- |       | [3:0-5-4,0-2-0], [9:0-4-0,0-3-0] |  |           |      |                           |       |       |      |        |                |         |          |  |
| LOADING (psf)         |       | SPACING- 2-0-0                   |  | CSI.      |      | DEFL. in (loc) l/defl L/d |       |       |      | PLATES |                | GRIP    |          |  |
| TCLL                  | 20.0  | Plate Grip DOL 1.25              |  | TC        | 0.78 | Vert(LL)                  | -0.14 | 8-9   | >999 | 240    | MT20           | 244/190 |          |  |
| TCDL                  | 10.0  | Lumber DOL 1.25                  |  | BC        | 0.72 | Vert(CT)                  | -0.24 | 11-14 | >999 | 180    |                |         |          |  |
| BCLL                  | 0.0 * | Rep Stress Incr YES              |  | WB        | 0.91 | Horz(CT)                  | 0.04  | 8     | n/a  | n/a    |                |         |          |  |
| BCDL                  | 10.0  | Code FBC2023/TPI2014             |  | Matrix-MS |      |                           |       |       |      |        | Weight: 148 lb |         | FT = 20% |  |

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-1-11 oc bracing.  
WEBS 1 Row at midpt 6-8, 7-8

**REACTIONS.** (size) 2=0-5-8, 8=0-3-8  
Max Horz 2=366(LC 12)  
Max Uplift 2=-305(LC 12), 8=-346(LC 12)  
Max Grav 2=1064(LC 2), 8=1024(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1624/397, 3-4=-1531/406, 4-5=-1001/225, 5-6=-1022/345  
BOT CHORD 2-11=-595/1386, 10-11=-595/1397, 9-10=-576/1534  
WEBS 3-11=0/283, 4-9=-861/320, 5-9=-340/253, 6-9=-475/1283, 6-8=-867/371

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-3-4, Zone3 7-3-4 to 11-3-4, Zone1 11-3-4 to 21-1-0, Zone3 21-1-0 to 23-0-12 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 2 and 346 lb uplift at joint 8.

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.

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Chesterfield, MO 63017  
Date:

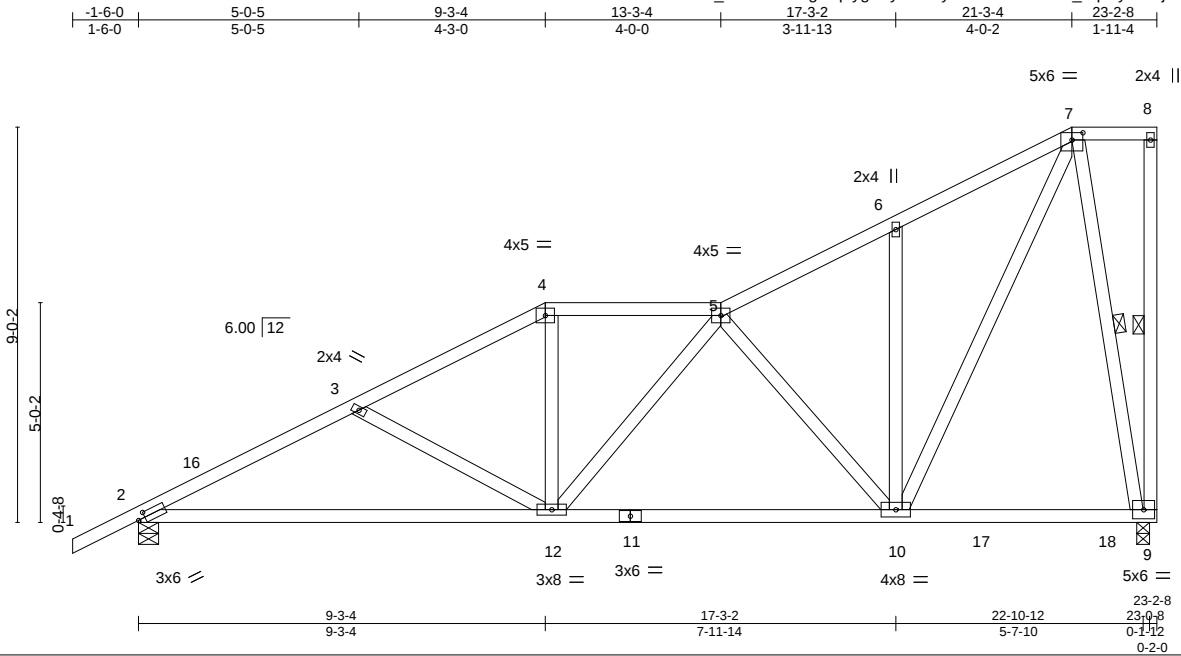
October 2,2024

|                          |       |              |     |     |             |           |
|--------------------------|-------|--------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158295 |
| 4190707                  | T31   | Roof Special | 1   | 1   |             |           |
| Job Reference (optional) |       |              |     |     |             |           |

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

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|                       |                                   |       |           |          |             |        |     |                         |
|-----------------------|-----------------------------------|-------|-----------|----------|-------------|--------|-----|-------------------------|
| Plate Offsets (X,Y)-- | [2:0-1-15,0-1-8], [7:0-3-0,0-2-0] |       |           |          |             |        |     |                         |
| LOADING (psf)         | SPACING-                          | 2-0-0 | CSI.      | DEFL.    | in (loc)    | l/defl | L/d | PLATES GRIP             |
| TCLL 20.0             | Plate Grip DOL                    | 1.25  | TC 0.40   | Vert(LL) | -0.15 12-15 | >999   | 240 | MT20 244/190            |
| TCDL 10.0             | Lumber DOL                        | 1.25  | BC 0.81   | Vert(CT) | -0.32 12-15 | >857   | 180 |                         |
| BCLL 0.0 *            | Rep Stress Incr                   | YES   | WB 0.77   | Horz(CT) | 0.04 9      | n/a    | n/a |                         |
| BCDL 10.0             | Code FBC2023/TPI2014              |       | Matrix-MS |          |             |        |     | Weight: 155 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-0-11 oc bracing.  
WEBS 1 Row at midpt 8-9, 7-9

REACTIONS.

(size) 2=0-5-8, 9=0-3-8  
Max Horz 2=394(LC 12)  
Max Uplift 2=-296(LC 12), 9=-360(LC 12)  
Max Grav 2=1062(LC 2), 9=1016(LC 2)

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

TOP CHORD 2-3=-1673/442, 3-4=-1403/331, 4-5=-1214/332, 5-6=-798/149, 6-7=-811/255  
BOT CHORD 2-12=-699/1481, 10-12=-460/1170  
WEBS 3-12=-342/225, 4-12=-7/414, 5-10=-760/312, 6-10=-271/203, 7-10=-437/1183, 7-9=-892/384

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-3-4, Zone3 9-3-4 to 13-3-4, Zone1 13-3-4 to 21-3-4, Zone3 21-3-4 to 23-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2 and 360 lb uplift at joint 9.

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.

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Chesterfield, MO 63017  
Date:

October 2,2024

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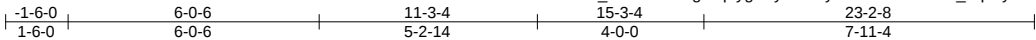
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Chesterfield, MO 63017  
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|                          |       |              |     |     |             |           |
|--------------------------|-------|--------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type   | Qty | Ply | LANDER RES. | T35158296 |
| 4190707                  | T32   | Roof Special | 1   | 1   |             |           |
| Job Reference (optional) |       |              |     |     |             |           |

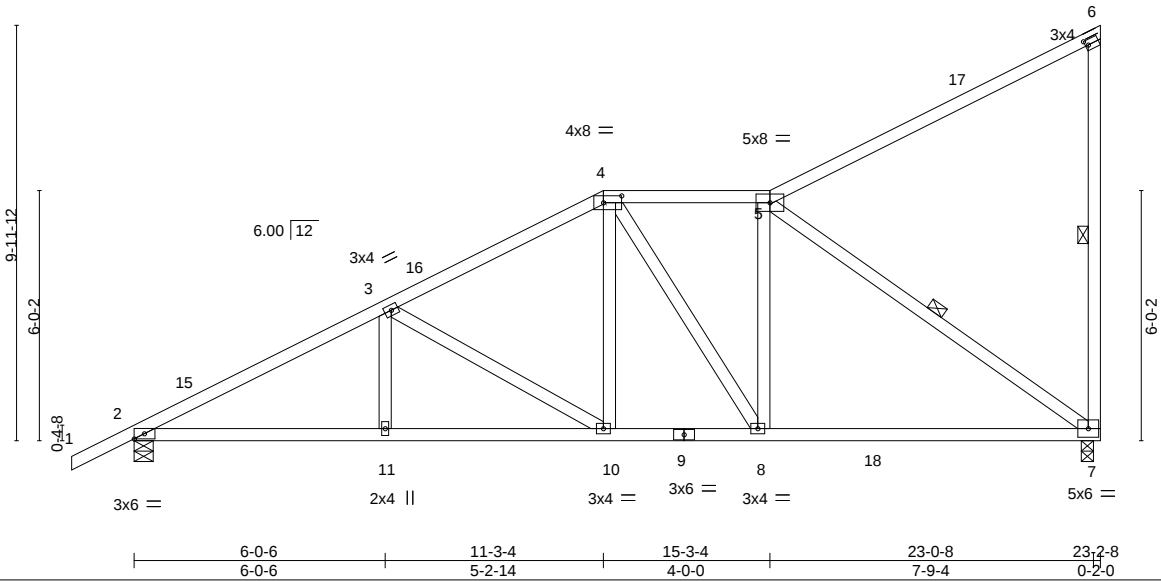
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:30 2024 Page 1

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Scale = 1:55.3



|                       |                                   |           |                |          |        |     |                         |
|-----------------------|-----------------------------------|-----------|----------------|----------|--------|-----|-------------------------|
| Plate Offsets (X,Y)-- | [4:0-5-4,0-2-0], [6:0-0-13,0-1-8] |           |                |          |        |     |                         |
| LOADING (psf)         | SPACING- 2-0-0                    | CSI.      | DEFL.          | in (loc) | l/defl | L/d | PLATES GRIP             |
| TCLL 20.0             | Plate Grip DOL 1.25               | TC 0.83   | Vert(LL) -0.15 | 7-8      | >999   | 240 | MT20 244/190            |
| TCDL 10.0             | Lumber DOL 1.25                   | BC 0.69   | Vert(CT) -0.29 | 7-8      | >955   | 180 |                         |
| BCLL 0.0 *            | Rep Stress Incr YES               | WB 0.58   | Horz(CT) 0.05  | 7        | n/a    | n/a |                         |
| BCDL 10.0             | Code FBC2023/TPI2014              | Matrix-MS |                |          |        |     | Weight: 142 lb FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-1-7 oc bracing.  
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS.

(size) 7=0-3-8, 2=0-5-8  
Max Horz 2=432(LC 12)  
Max Uplift 7=-406(LC 12), 2=-282(LC 12)  
Max Grav 7=1005(LC 2), 2=1069(LC 2)

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

TOP CHORD 2-3=-1740/383, 3-4=-1195/267, 4-5=-975/202  
BOT CHORD 2-11=-673/1508, 10-11=-673/1508, 8-10=-445/1016, 7-8=-365/966  
WEBS 3-11=0/254, 3-10=-582/266, 4-10=-114/385, 5-8=-67/377, 5-7=-1177/443

NOTES-

- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 11-3-4, Zone3 11-3-4 to 15-3-4, Zone1 15-3-4 to 23-0-12 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 406 lb uplift at joint 7 and 282 lb uplift at joint 2.

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:

October 2,2024

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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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|         |       |                 |     |     |                          |           |
|---------|-------|-----------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type      | Qty | Ply | LANDER RES.              | T35158297 |
| 4190707 | T33   | Half Hip Girder | 1   | 1   | Job Reference (optional) |           |

**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 3=-121(B) 9=-334(B) 7=-67(B) 4=-121(B) 12=-121(B) 13=-121(B) 14=-121(B) 15=-121(B) 16=-67(B) 17=-67(B) 18=-67(B) 19=-67(B)

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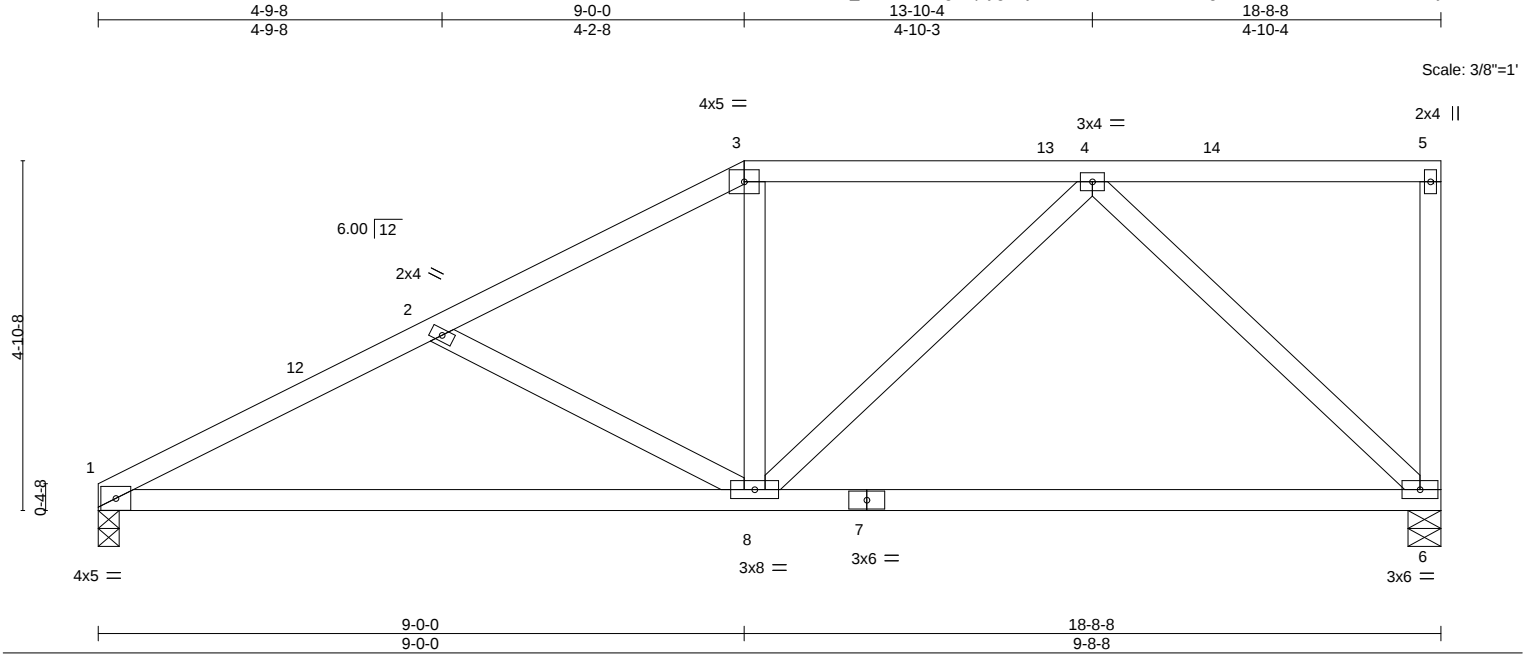
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|                          |       |            |     |     |             |           |
|--------------------------|-------|------------|-----|-----|-------------|-----------|
| Job                      | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158298 |
| 4190707                  | T34   | Half Hip   | 1   | 1   |             |           |
| Job Reference (optional) |       |            |     |     |             |           |

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8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:31 2024 Page 1  
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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.      | DEFL.    | in (loc)  | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|-----------|----------|-----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.48   | Vert(LL) | 0.20 6-8  | >999   | 240 | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.87   | Vert(CT) | -0.38 6-8 | >579   | 180 |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.65   | Horz(CT) | 0.02 6    | n/a    | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TP12014 |       | Matrix-MS |          |           |        |     | Weight: 96 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-11-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-5-8 oc bracing.

**REACTIONS.**

(size) 1=0-3-8, 6=0-5-8  
Max Horz 1=192(LC 12)  
Max Uplift 1=-321(LC 9), 6=-426(LC 9)  
Max Grav 1=743(LC 1), 6=742(LC 1)

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

TOP CHORD 1-2=-1257/701, 2-3=-954/582, 3-4=-798/552  
BOT CHORD 1-8=-758/1101, 6-8=-359/578  
WEBS 2-8=-348/238, 4-8=-272/352, 4-6=-779/479

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 18-6-12 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 321 lb uplift at joint 1 and 426 lb uplift at joint 6.

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  
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Chesterfield, MO 63017  
Date:

October 2,2024

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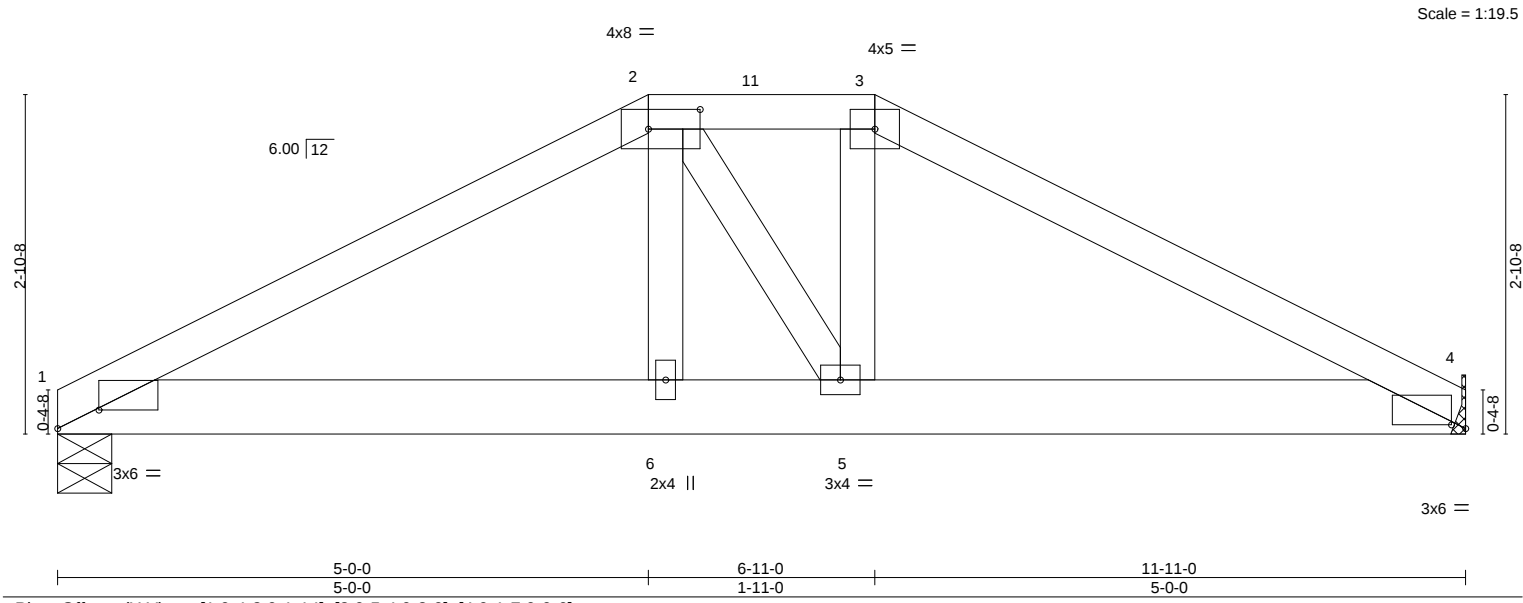
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|         |       |            |     |     |             |           |
|---------|-------|------------|-----|-----|-------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES. | T35158299 |
| 4190707 | T35   | Hip Girder | 1   | 1   |             |           |

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|                       |       |                                                    |      |           |      |                           |       |     |             |     |                        |
|-----------------------|-------|----------------------------------------------------|------|-----------|------|---------------------------|-------|-----|-------------|-----|------------------------|
| Plate Offsets (X,Y)-- |       | [1:0-4-3,0-1-14], [2:0-5-4,0-2-0], [4:0-1-7,0-0-6] |      |           |      |                           |       |     |             |     |                        |
| LOADING (psf)         |       | SPACING- 2-0-0                                     |      | CSI.      |      | DEFL. in (loc) l/defl L/d |       |     | PLATES GRIP |     |                        |
| TCLL                  | 20.0  | Plate Grip DOL                                     | 1.25 | TC        | 0.27 | Vert(LL)                  | 0.03  | 6-8 | >999        | 240 | MT20 244/190           |
| TCDL                  | 10.0  | Lumber DOL                                         | 1.25 | BC        | 0.37 | Vert(CT)                  | -0.04 | 6-8 | >999        | 180 |                        |
| BCLL                  | 0.0 * | Rep Stress Incr                                    | NO   | WB        | 0.10 | Horz(CT)                  | 0.01  | 4   | n/a         | n/a |                        |
| BCDL                  | 10.0  | Code FBC2023/TPI2014                               |      | Matrix-MS |      |                           |       |     |             |     | Weight: 58 lb FT = 20% |

|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
| LUMBER-               | BRACING-                                                                   |
| TOP CHORD 2x4 SP No.2 | TOP CHORD Structural wood sheathing directly applied or 5-1-14 oc purlins. |
| BOT CHORD 2x6 SP No.2 | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.             |
| WEBS 2x4 SP No.3      |                                                                            |

|            |                                       |
|------------|---------------------------------------|
| REACTIONS. | (size) 1=0-5-8, 4=Mechanical          |
|            | Max Horz 1=-46(LC 9)                  |
|            | Max Uplift 1=-287(LC 8), 4=-291(LC 9) |
|            | Max Grav 1=658(LC 1), 4=671(LC 1)     |

|           |                                                                              |
|-----------|------------------------------------------------------------------------------|
| FORCES.   | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| TOP CHORD | 1-2=-1122/525, 2-3=-987/512, 3-4=-1151/541                                   |
| BOT CHORD | 1-6=-443/951, 5-6=-448/962, 4-5=-440/977                                     |
| WEBS      | 2-6=-84/261                                                                  |

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) Provide adequate drainage to prevent water ponding.
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 1 and 291 lb uplift at joint 4.
  - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 92 lb up at 5-0-0, and 191 lb down and 211 lb up at 6-11-0 on top chord, and 107 lb down and 69 lb up at 5-0-0, and 107 lb down and 69 lb up at 6-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

|                                                                           |
|---------------------------------------------------------------------------|
| LOAD CASE(S) Standard                                                     |
| 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 |
| Uniform Loads (plf)                                                       |
| Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20                                  |
| Concentrated Loads (lb)                                                   |
| Vert: 2=-64(F) 3=-144(F) 6=-84(F) 5=-84(F)                                |

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

October 2,2024

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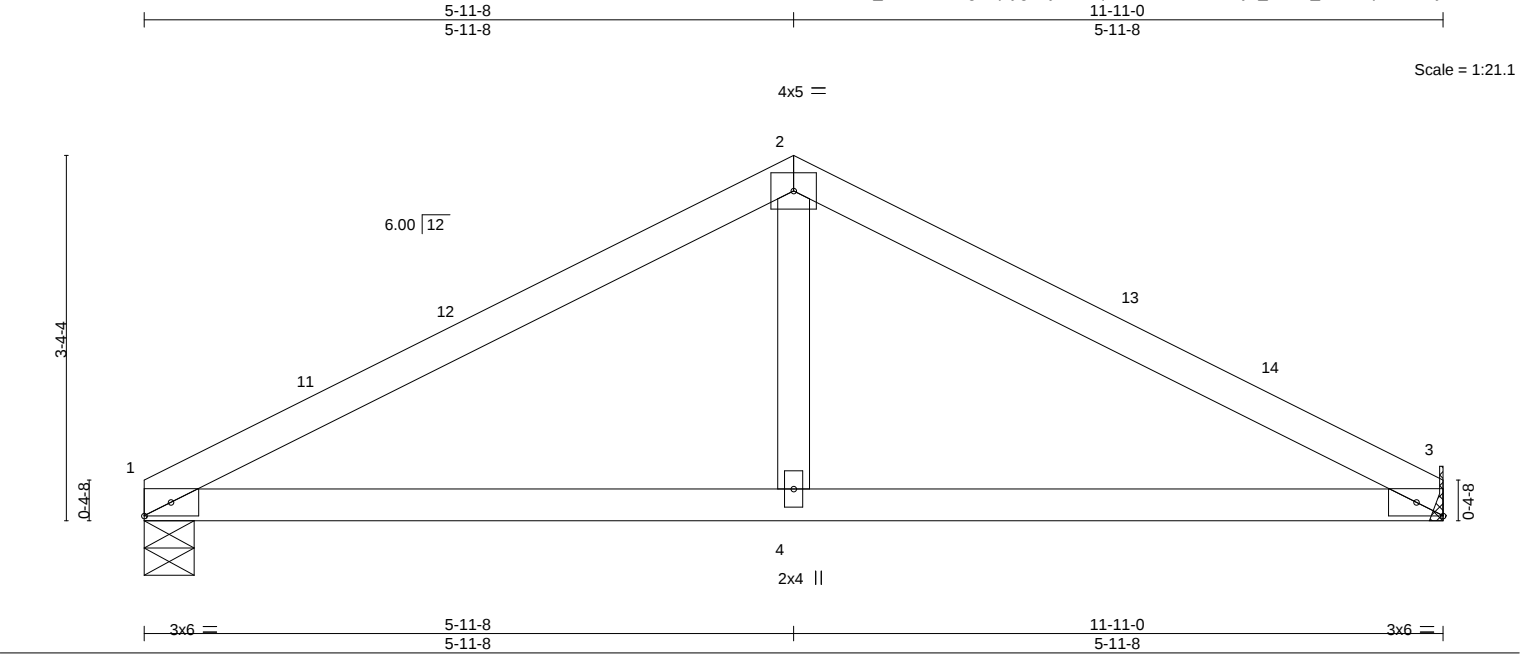
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158300 |
| 4190707 | T36   | Common     | 1   | 1   | Job Reference (optional) |           |

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| Plate Offsets (X,Y)-- |                 | [3:0-2-15,Edge] |           |          |            |        |     |               |          |
|-----------------------|-----------------|-----------------|-----------|----------|------------|--------|-----|---------------|----------|
| LOADING (psf)         | SPACING-        | 2-0-0           | CSI.      | DEFL.    | in (loc)   | l/defl | L/d | PLATES        | GRIP     |
| TCLL 20.0             | Plate Grip DOL  | 1.25            | TC 0.41   | Vert(LL) | -0.05 4-10 | >999   | 240 | MT20          | 244/190  |
| TCDL 10.0             | Lumber DOL      | 1.25            | BC 0.40   | Vert(CT) | -0.08 4-10 | >999   | 180 |               |          |
| BCLL 0.0 *            | Rep Stress Incr | YES             | WB 0.11   | Horz(CT) | 0.01 3     | n/a    | n/a |               |          |
| BCDL 10.0             | Code            | FBC2023/TPI2014 | Matrix-MS |          |            |        |     | Weight: 42 lb | FT = 20% |

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

REACTIONS. (size) 1=0-5-8, 3=Mechanical  
Max Horz 1=-55(LC 13)  
Max Uplift 1=-133(LC 12), 3=-133(LC 13)  
Max Grav 1=477(LC 1), 3=477(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-681/356, 2-3=-681/356  
BOT CHORD 1-4=-212/548, 3-4=-212/548  
WEBS 2-4=-41/280

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 5-11-8, Zone2 5-11-8 to 10-2-7, Zone1 10-2-7 to 11-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1 and 133 lb uplift at joint 3.

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.

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Date:

October 2,2024

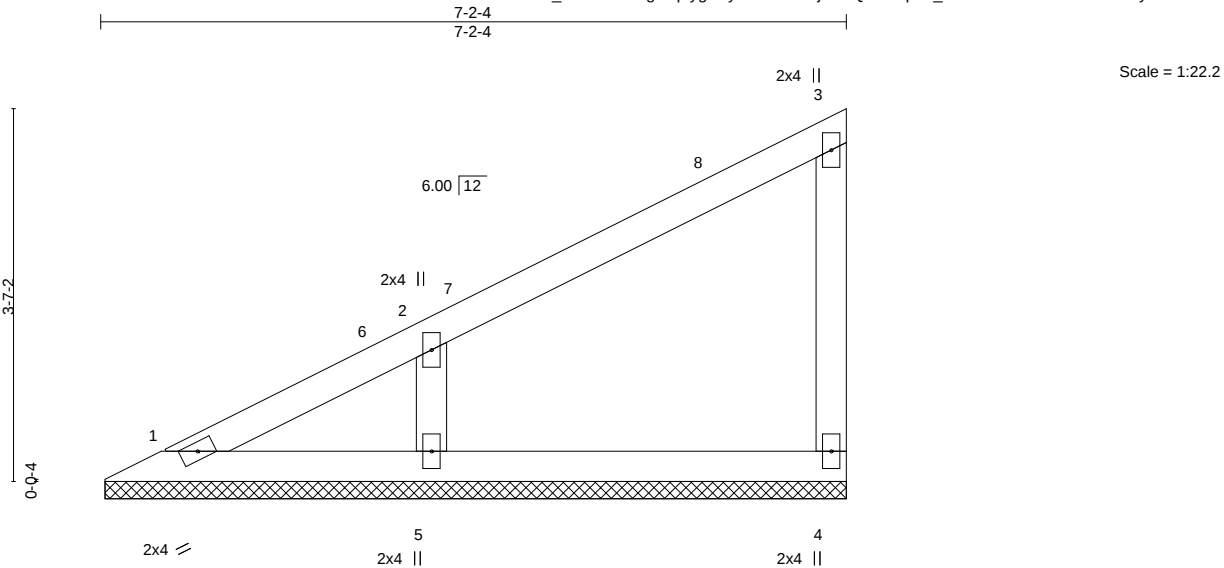
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|                                                             |       |            |     |     |                                                                           |
|-------------------------------------------------------------|-------|------------|-----|-----|---------------------------------------------------------------------------|
| Job                                                         | Truss | Truss Type | Qty | Ply | LANDER RES.                                                               |
| 4190707                                                     | V01   | Valley     | 1   | 1   | T35158301                                                                 |
| Builders FirstSource (Lake City,FL), Lake City, FL - 32055, |       |            |     |     | 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:33 2024 Page 1 |
| Job Reference (optional)                                    |       |            |     |     | ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-IX9eJxKVQto5RqPG_V0NlBHI23VnXML2bA2wnyXkA0 |



|                      |                      |       |             |              |          |        |     |               |             |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|-----|---------------|-------------|
| <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 20.0            | Plate Grip DOL       | 1.25  | TC 0.16     | Vert(LL)     | n/a      | -      | n/a | MT20          | 244/190     |
| TCDL 10.0            | Lumber DOL           | 1.25  | BC 0.11     | Vert(CT)     | n/a      | -      | n/a |               |             |
| BCLL 0.0 *           | Rep Stress Incr      | YES   | WB 0.08     | Horz(CT)     | 0.00     | 4      | n/a |               |             |
| BCDL 10.0            | Code FBC2023/TPI2014 |       | Matrix-S    |              |          |        |     | 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 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) 1=7-1-12, 4=7-1-12, 5=7-1-12  
Max Horz 1=130(LC 12)  
Max Uplift 4=-50(LC 12), 5=-149(LC 12)  
Max Grav 1=68(LC 21), 4=131(LC 1), 5=315(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-5=-236/270

NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 7-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 4 and 149 lb uplift at joint 5.

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.

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Date:

October 2,2024

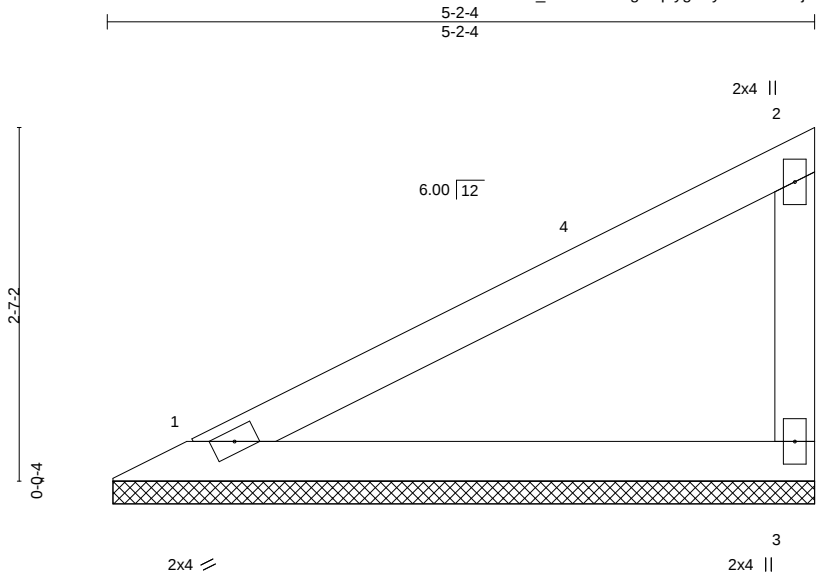
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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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|                                                             |       |            |     |     |                                                                            |
|-------------------------------------------------------------|-------|------------|-----|-----|----------------------------------------------------------------------------|
| Job                                                         | Truss | Truss Type | Qty | Ply | LANDER RES.                                                                |
| 4190707                                                     | V02   | Valley     | 1   | 1   | T35158302                                                                  |
| Builders FirstSource (Lake City,FL), Lake City, FL - 32055, |       |            |     |     | 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:33 2024 Page 1  |
|                                                             |       |            |     |     | ID:SuK_nI4MV6d2dgtVq4ygAeyXsle-IX9eJjxKVQto5RqPG_V0NlBEG21SnYcL2bA2wnyXkA0 |
|                                                             |       |            |     |     | Job Reference (optional)                                                   |



Scale = 1:16.9

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.38  | Vert(LL) | n/a      | -      | n/a | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.24  | Vert(CT) | n/a      | -      | n/a |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00  | Horz(CT) | 0.00     |        | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-P |          |          |        |     | Weight: 18 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-1-12, 3=5-1-12  
Max Horz 1=94(LC 12)  
Max Uplift 1=-38(LC 12), 3=-85(LC 12)  
Max Grav 1=177(LC 1), 3=177(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 85 lb uplift at joint 3.

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Date:

October 2,2024

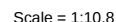
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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ID: SuK\_nI4MV6d2datVq4vaAevXsle-IX9eJixKVQto5RoPG\_V0NlBla239nYcl2bA2wnvYkA0



|                |             |                 |                                                                                       |
|----------------|-------------|-----------------|---------------------------------------------------------------------------------------|
| <b>LUMBER-</b> |             | <b>BRACING-</b> |                                                                                       |
| TOP CHORD      | 2x4 SP No.2 | TOP CHORD       | Structural wood sheathing directly applied or 3-2-4 oc purlins, except end verticals. |
| BOT CHORD      | 2x4 SP No.2 |                 |                                                                                       |
| WEBS           | 2x4 SP No.3 | BOT CHORD       | Rigid ceiling directly applied or 10-0-0 oc bracing.                                  |

**REACTIONS.** (size) 1=3-1-12, 3=3-1-12  
 Max Horz 1=51(LC 12)  
 Max Uplift 1=-21(LC 12), 3=-47(LC 12)  
 Max Grav 1=97(LC 1), 3=97(LC 1)

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 47 lb uplift at joint 3.

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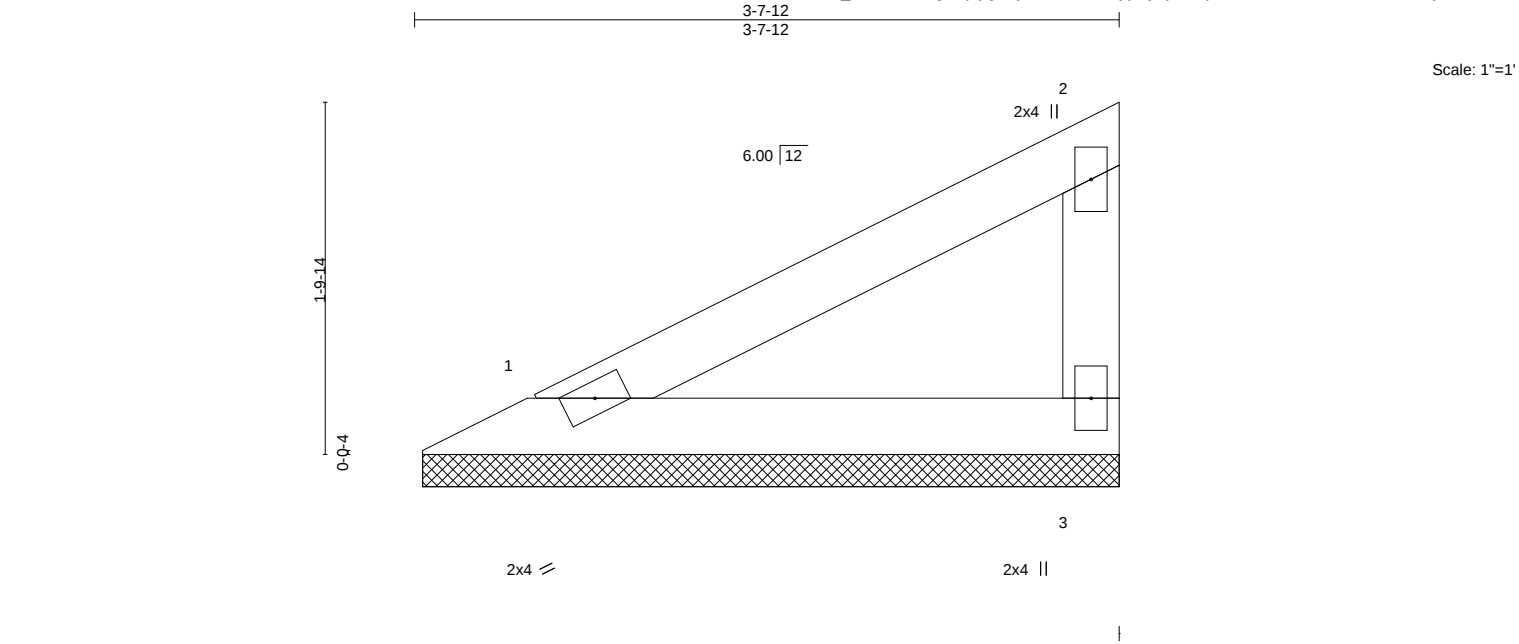
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|         |       |            |     |     |                          |           |
|---------|-------|------------|-----|-----|--------------------------|-----------|
| Job     | Truss | Truss Type | Qty | Ply | LANDER RES.              | T35158304 |
| 4190707 | V04   | Valley     | 1   | 1   | Job Reference (optional) |           |

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8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:34 2024 Page 1

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| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.15  | Vert(LL) | n/a      | -      | n/a | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.09  | Vert(CT) | n/a      | -      | n/a |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00  | Horz(CT) | 0.00     |        | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-P |          |          |        |     | Weight: 12 lb | FT = 20% |

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

REACTIONS. (size) 1=3-7-4, 3=3-7-4  
Max Horz 1=61(LC 12)  
Max Uplift 1=-25(LC 12), 3=-56(LC 12)  
Max Grav 1=115(LC 1), 3=115(LC 1)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) Gable requires continuous bottom chord bearing.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 56 lb uplift at joint 3.

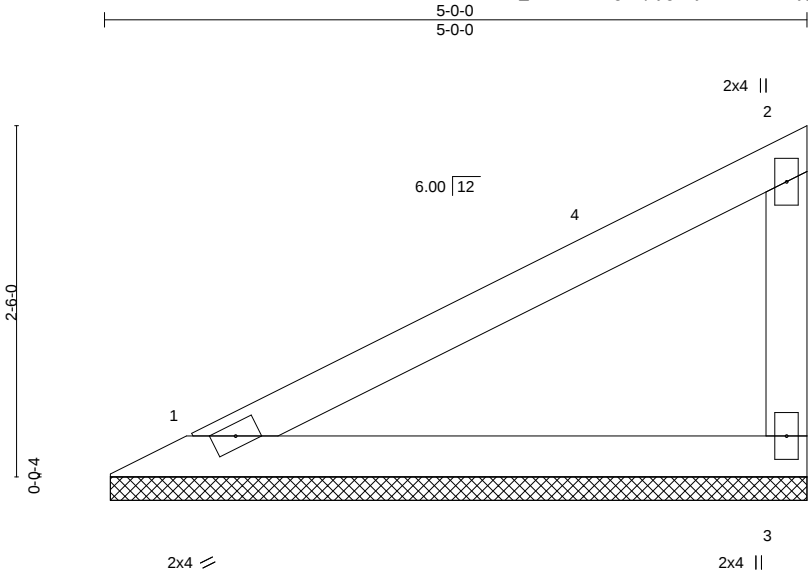
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Chesterfield, MO 63017  
Date:

October 2,2024

|                                                             |       |            |     |     |                          |
|-------------------------------------------------------------|-------|------------|-----|-----|--------------------------|
| Job                                                         | Truss | Truss Type | Qty | Ply | LANDER RES.              |
| 4190707                                                     | V05   | Valley     | 2   | 1   | T35158305                |
| Builders FirstSource (Lake City,FL), Lake City, FL - 32055, |       |            |     |     | Job Reference (optional) |

8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:34 2024 Page 1  
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Scale = 1:16.4

| LOADING (psf) | SPACING-             | 2-0-0 | CSI.     | DEFL.    | in (loc) | l/defl | L/d | PLATES        | GRIP     |
|---------------|----------------------|-------|----------|----------|----------|--------|-----|---------------|----------|
| TCLL 20.0     | Plate Grip DOL       | 1.25  | TC 0.35  | Vert(LL) | n/a      | -      | n/a | MT20          | 244/190  |
| TCDL 10.0     | Lumber DOL           | 1.25  | BC 0.22  | Vert(CT) | n/a      | -      | n/a |               |          |
| BCLL 0.0 *    | Rep Stress Incr      | YES   | WB 0.00  | Horz(CT) | 0.00     |        | n/a |               |          |
| BCDL 10.0     | Code FBC2023/TPI2014 |       | Matrix-P |          |          |        |     | Weight: 17 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS.

(size) 1=4-11-8, 3=4-11-8  
Max Horz 1=90(LC 12)  
Max Uplift 1=-37(LC 12), 3=-82(LC 12)  
Max Grav 1=169(LC 1), 3=169(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 4-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 82 lb uplift at joint 3.

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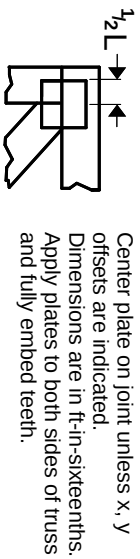
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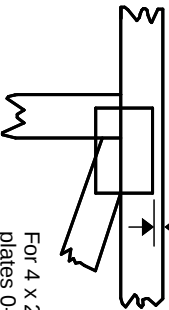


## Symbols

### PLATE LOCATION AND ORIENTATION



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



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

—  
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

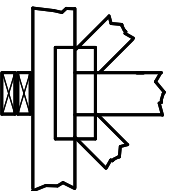
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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.

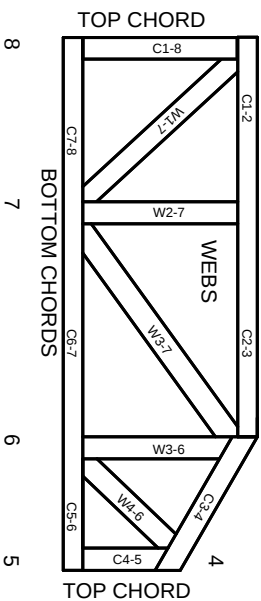
#### Industry Standards:

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

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

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.