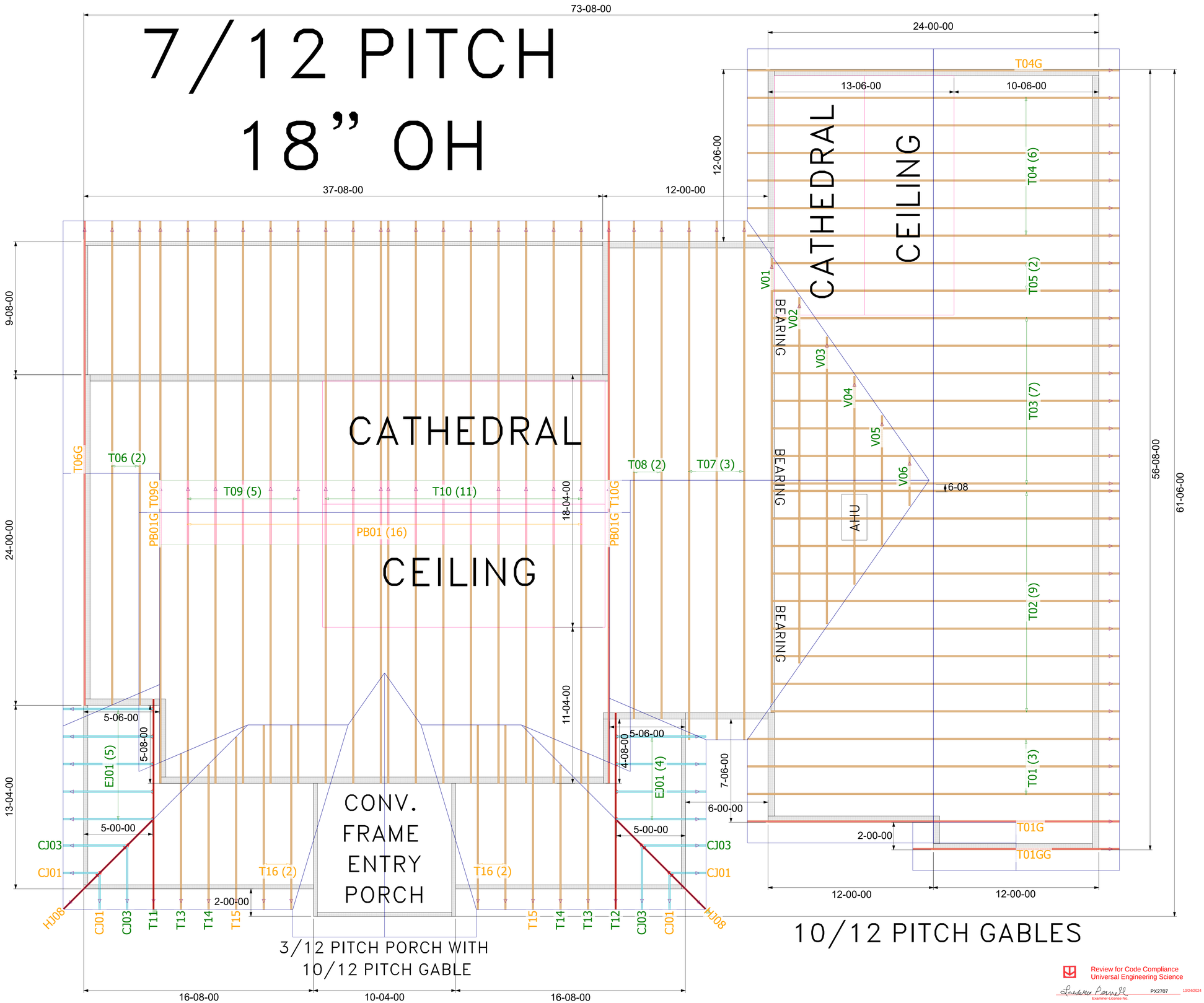
# 7/12 PITCH
# 18" OH




3/12 PITCH PORCH WITH 10/12 PITCH GABLE

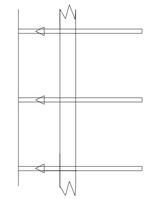
10/12 PITCH GABLES

MITEK PLATE APPROVAL #'S 2197.2–2197.4, BOISE EWP PRODUCT #'S LVL FL1644–R2, BCI JOISTS FL1392–R2

Review for Code Compliance
Universal Engineering Science

Examiner-License No. PX2707 10/24/2024

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Use Manufacturer's specifications for all hanger connections unless noted otherwise.
- Trusses are to be 24" o.c. U.N.O.
- All hangers are to be Simpson or equivalent U.N.O.- Use 10d x 1 1/2" Nails in hanger connections to single ply girder trusses.
- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.


Builders FIRSTSOURCE

**Lake City**
PHONE: 386-755-6894
FAX: 386-755-7973

**Jacksonville**
PHONE: 904-772-6100
FAX: 904-772-1973

**Tallahassee**
PHONE: 850-576-5177


| | |
|---|---|
| Builder: | AMIRA BUILDERS |
| Legal Address: | Kline Res. |
| Model: | Custom |

| Date: | Drawn By: | Original Ref #: |
|---|---|---|
| 9-16-24 | KLH | 4223140 |
| **Floor 1 Job#** | **Floor 2 Job#:** | **Roof Job #:** |
| N/A | N/A | 4223140 |

MiTek®

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

RE: 4223140 - AMIRA BLDRS. - KLINE RES.

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

**Site Information:**

Customer Info: AMIRA BUILDERS Project Name: Kline Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 20364 S US HWY 441, 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:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 34 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 | T35083438 | CJ01 | 9/24/24 | 15 | T35083452 | T06 | 9/24/24 |
| 2 | T35083439 | CJ03 | 9/24/24 | 16 | T35083453 | T06G | 9/24/24 |
| 3 | T35083440 | EJ01 | 9/24/24 | 17 | T35083454 | T07 | 9/24/24 |
| 4 | T35083441 | HJ08 | 9/24/24 | 18 | T35083455 | T08 | 9/24/24 |
| 5 | T35083442 | PB01 | 9/24/24 | 19 | T35083456 | T09 | 9/24/24 |
| 6 | T35083443 | PB01G | 9/24/24 | 20 | T35083457 | T09G | 9/24/24 |
| 7 | T35083444 | T01 | 9/24/24 | 21 | T35083458 | T10 | 9/24/24 |
| 8 | T35083445 | T01G | 9/24/24 | 22 | T35083459 | T10G | 9/24/24 |
| 9 | T35083446 | T01GG | 9/24/24 | 23 | T35083460 | T11 | 9/24/24 |
| 10 | T35083447 | T02 | 9/24/24 | 24 | T35083461 | T12 | 9/24/24 |
| 11 | T35083448 | T03 | 9/24/24 | 25 | T35083462 | T13 | 9/24/24 |
| 12 | T35083449 | T04 | 9/24/24 | 26 | T35083463 | T14 | 9/24/24 |
| 13 | T35083450 | T04G | 9/24/24 | 27 | T35083464 | T15 | 9/24/24 |
| 14 | T35083451 | T05 | 9/24/24 | 28 | T35083465 | T16 | 9/24/24 |

Review for Code Compliance
Universal Engineering Science

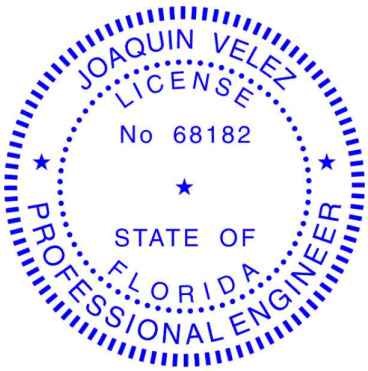
PX2707 10/24/2024
Examiner-License No.

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

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.

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




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

September 24,2024

Velez, Joaquin

RE: 4223140 - AMIRA BLDRS. - KLINE RES.

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

**Site Information:**

Customer Info: AMIRA BUILDERS Project Name: Kline Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 20364 S US HWY 441, N/A
City: Columbia Cty State: FL

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 29 | T35083466 | V01 | 9/24/24 |
| 30 | T35083467 | V02 | 9/24/24 |
| 31 | T35083468 | V03 | 9/24/24 |
| 32 | T35083469 | V04 | 9/24/24 |
| 33 | T35083470 | V05 | 9/24/24 |
| 34 | T35083471 | V06 | 9/24/24 |

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | CJ01 | JACK-OPEN | 4 | 1 | T35083438 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:28 2024 Page 1
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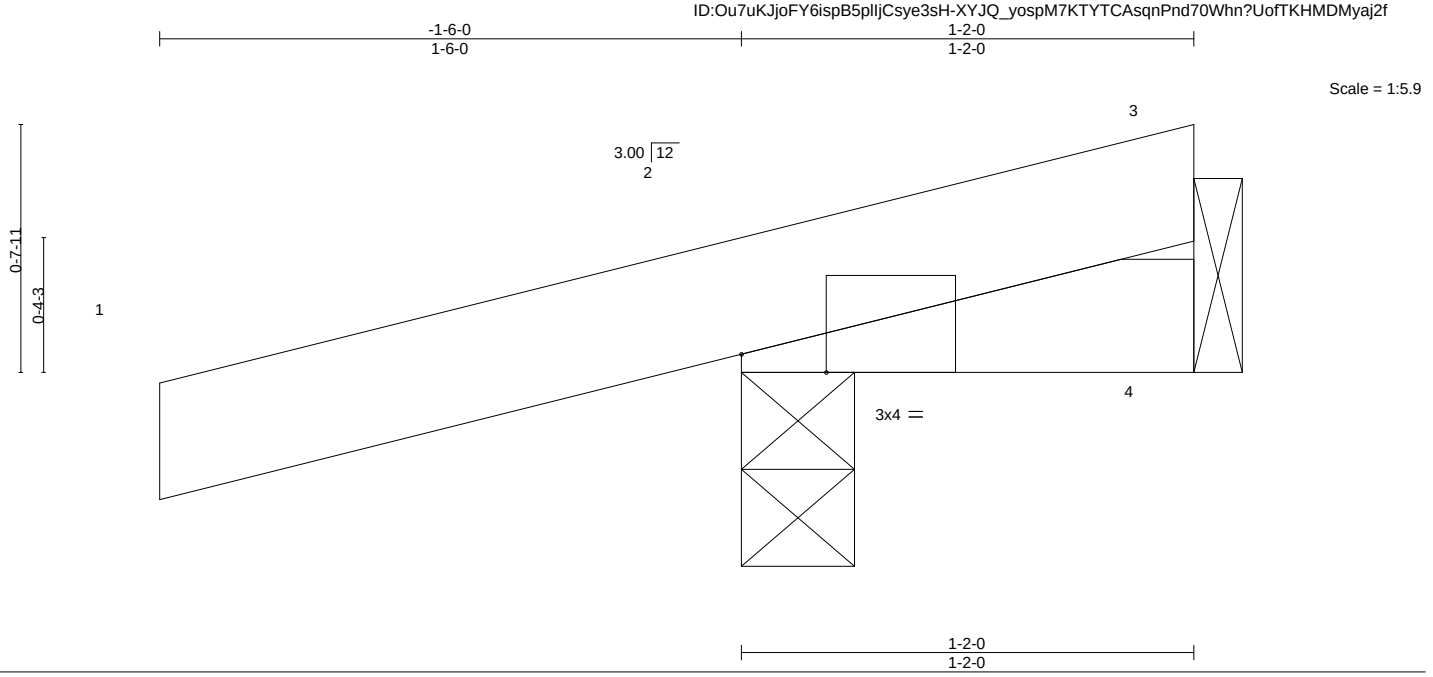


Plate Offsets (X,Y)-- [2:0-2-10,Edge]

| 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 | 0.17 | Vert(LL) | 0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.00 | 5 | >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 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 4=Mechanical
Max Horz 2=30(LC 8)
Max Uplift 2=-131(LC 8), 4=-16(LC 1)
Max Grav 2=176(LC 1), 4=21(LC 16)

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

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 131 lb uplift at joint 2 and 16 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:
September 24,2024



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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | CJ03 | Jack-Open | 4 | 1 | T35083439 |

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:29 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIIjCsye3sH-?ltoCIpUagFB5i2PkaL0y_9Imw0Vkx2oi_1wIoyaj2e

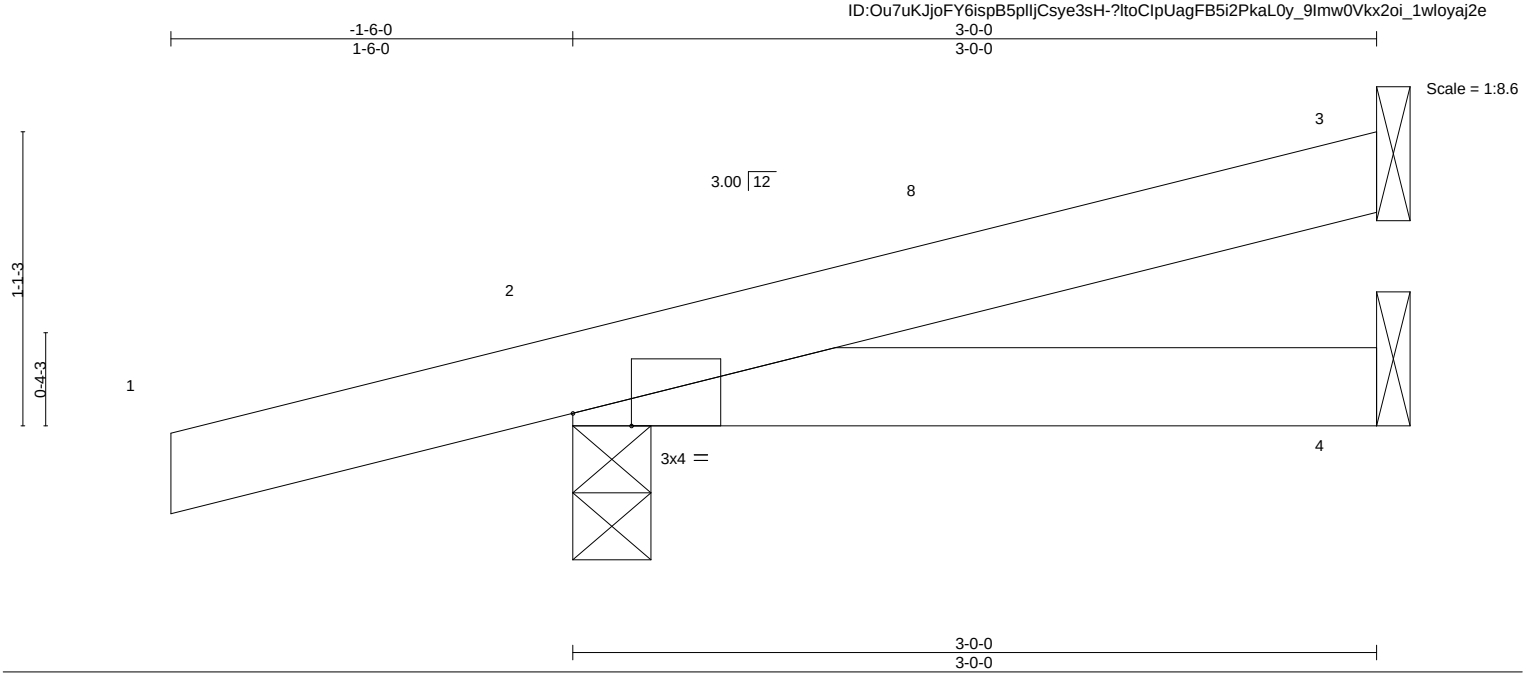


Plate Offsets (X,Y)-- [2:0-2-10,Edge]

| 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 | 0.17 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | -0.00 | 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: 11 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=0-3-8, 4=Mechanical
Max Horz 2=48(LC 8)
Max Uplift 3=-32(LC 8), 2=-140(LC 8), 4=-18(LC 9)
Max Grav 3=57(LC 1), 2=210(LC 1), 4=47(LC 3)

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

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 32 lb uplift at joint 3, 140 lb uplift at joint 2 and 18 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:
September 24,2024



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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | EJ01 | Jack-Open | 9 | 1 | T35083440 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:29 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIljCsye3sH-?ltoCIpUagFB5i2PkaL0y_9GHwz1kx2oi_1wloyaj2e

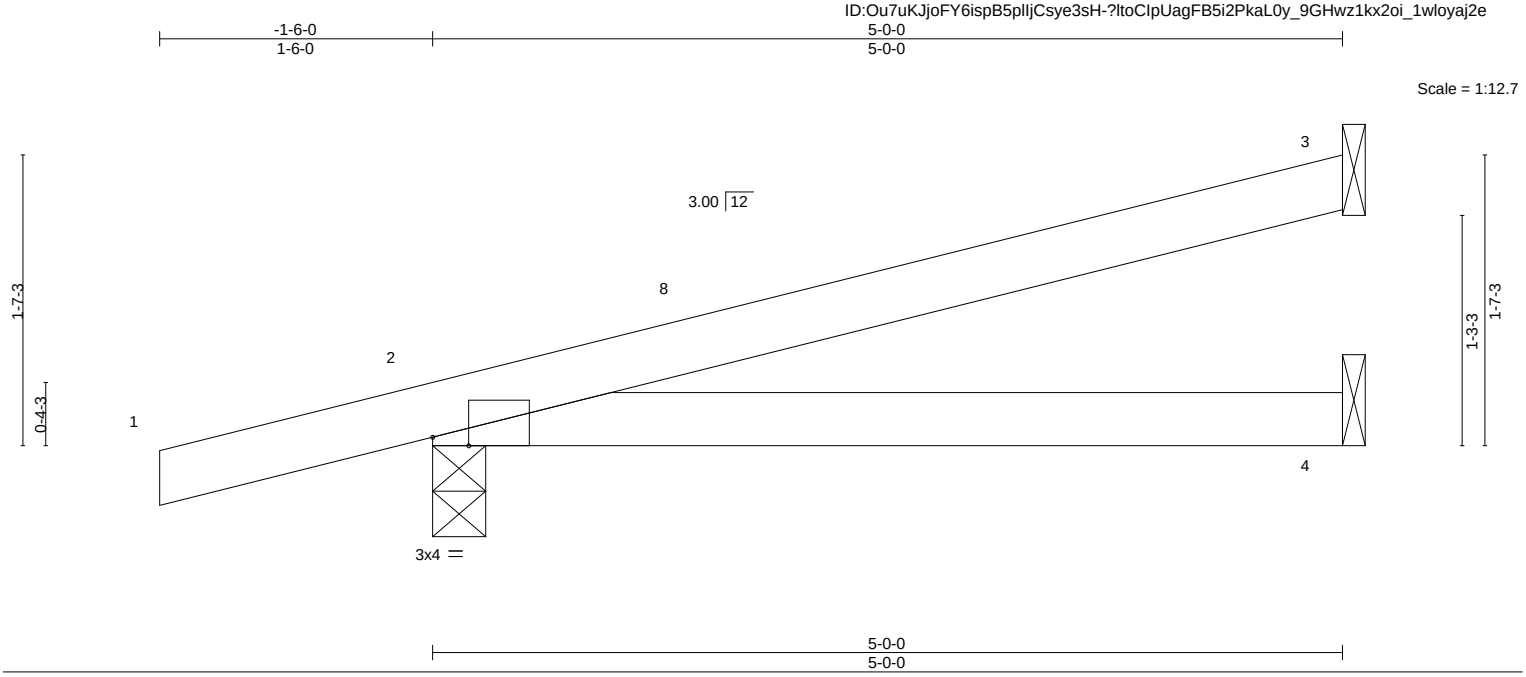


Plate Offsets (X,Y)-- [2:0-2-6,Edge]

| 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 | 0.26 | Vert(LL) | 0.05 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.22 | Vert(CT) | -0.05 | 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=0-3-8, 4=Mechanical
Max Horz 2=67(LC 8)
Max Uplift 3=-66(LC 8), 2=-174(LC 8), 4=-36(LC 8)
Max Grav 3=110(LC 1), 2=276(LC 1), 4=85(LC 3)

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

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 66 lb uplift at joint 3, 174 lb uplift at joint 2 and 36 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:
September 24,2024



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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083441 |
|---|---|---|---|---|---|
| 4223140 | 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. Mon Sep 23 15:02:30 2024 Page 1
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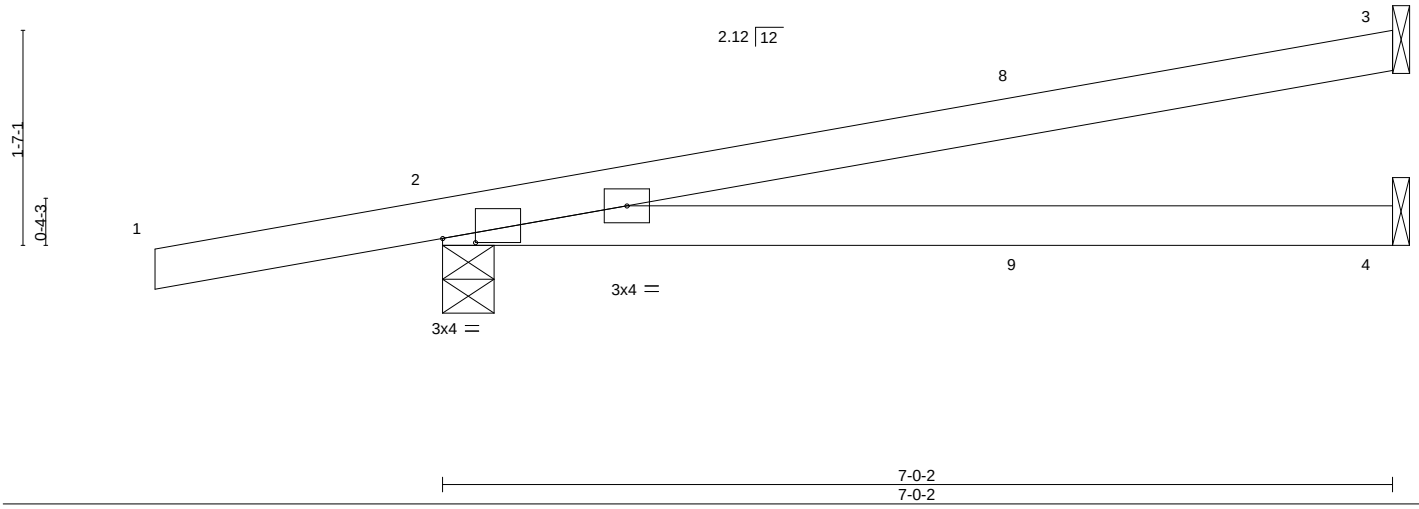
-2-1-7 / 2-1-7 | 7-0-2 / 7-0-2

Scale = 1:17.0




7-0-2 / 7-0-2

Plate Offsets (X,Y)-- [2:0-2-15,0-0-6]

| 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 | 0.64 | Vert(LL) | 0.16 | 4-7 | >532 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.21 | 4-7 | >400 | 180 | | |
| 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-MS | | | | | | | Weight: 24 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=0-4-9, 4=Mechanical
Max Horz 2=67(LC 25)
Max Uplift 3=-90(LC 4), 2=-255(LC 4), 4=-52(LC 4)
Max Grav 3=157(LC 1), 2=394(LC 1), 4=121(LC 3)

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

Review for Code Compliance
Universal Engineering Science
PX2707 10/24/2024
Universal License No.

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 90 lb uplift at joint 3, 255 lb uplift at joint 2 and 52 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 41 lb up at 4-4-0, and 22 lb down and 41 lb up at 4-4-0 on top chord, and 49 lb down and 22 lb up at 1-6-1, 49 lb down and 22 lb up at 1-6-1, and 18 lb down and 26 lb up at 4-4-0, and 18 lb down and 26 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=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=-0(F=-0, B=-0) 9=-13(F=-7, B=-7)

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | PB01 | Piggyback | 16 | 1 | T35083442 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:30 2024 Page 1
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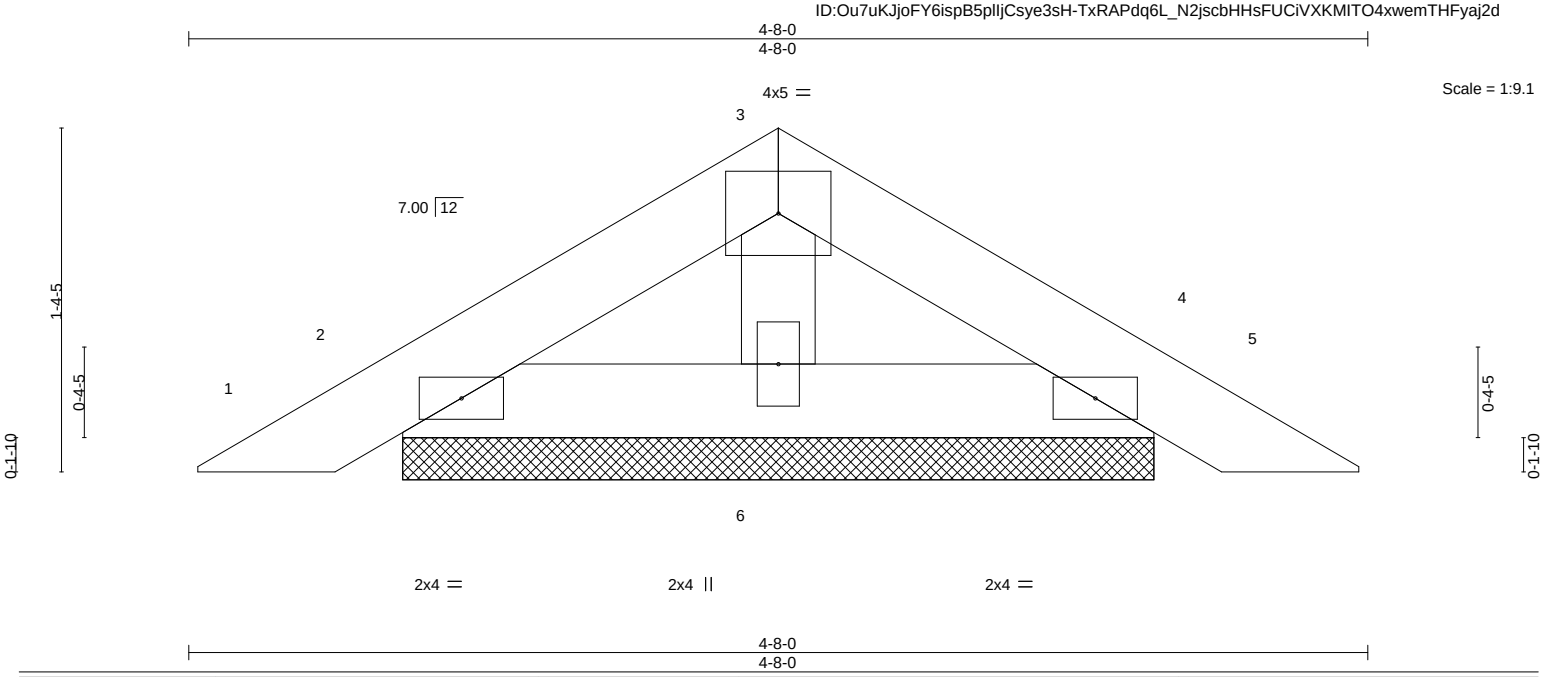


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.04 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.02 | Vert(CT) | 0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 13 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 4-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=2-11-11, 4=2-11-11, 6=2-11-11
Max Horz 2=29(LC 11)
Max Uplift 2=-37(LC 12), 4=-41(LC 13), 6=-9(LC 12)
Max Grav 2=91(LC 1), 4=91(LC 1), 6=97(LC 1)

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

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Universal Engineering Science

PX2707 10/24/2024
Certificate of Authorization No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
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) Gable requires continuous bottom chord bearing.
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 37 lb uplift at joint 2, 41 lb uplift at joint 4 and 9 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | PB01G | PIGGYBACK | 2 | 1 | T35083443 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:30 2024 Page 1
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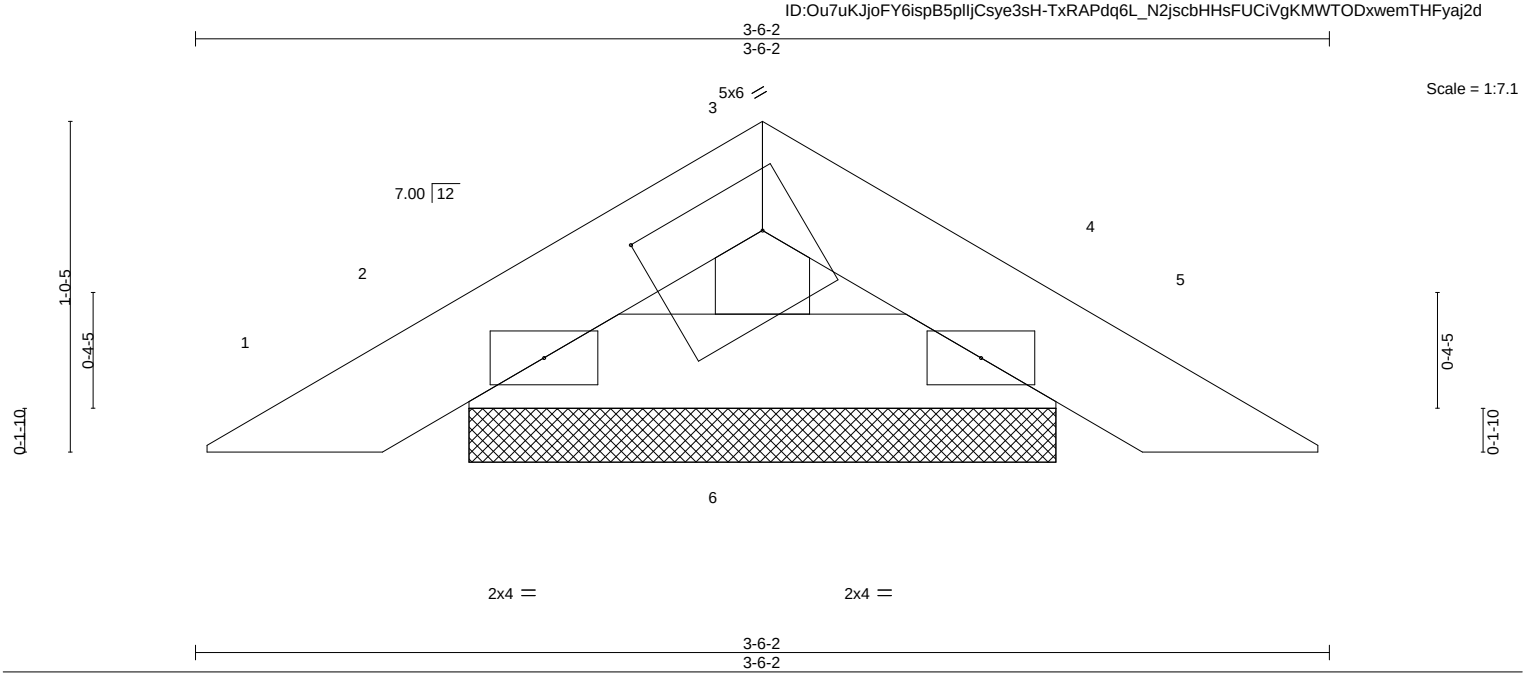


Plate Offsets (X,Y)-- [3:0-4-8,0-2-0]

| 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 | 0.03 | Vert(LL) | -0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.01 | Vert(CT) | -0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 9 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 3-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=1-9-13, 4=1-9-13, 6=1-9-13
Max Horz 2=-21(LC 10)
Max Uplift 2=-31(LC 12), 4=-34(LC 13), 6=-1(LC 12)
Max Grav 2=71(LC 1), 4=71(LC 1), 6=53(LC 3)

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

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PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Enclosed; 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
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) Gable requires continuous bottom chord bearing.
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 31 lb uplift at joint 2, 34 lb uplift at joint 4 and 1 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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September 24,2024



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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083444 |
|---|---|---|---|---|---|
| 4223140 | T01 | Common | 3 | 1 | Job Reference (optional) |

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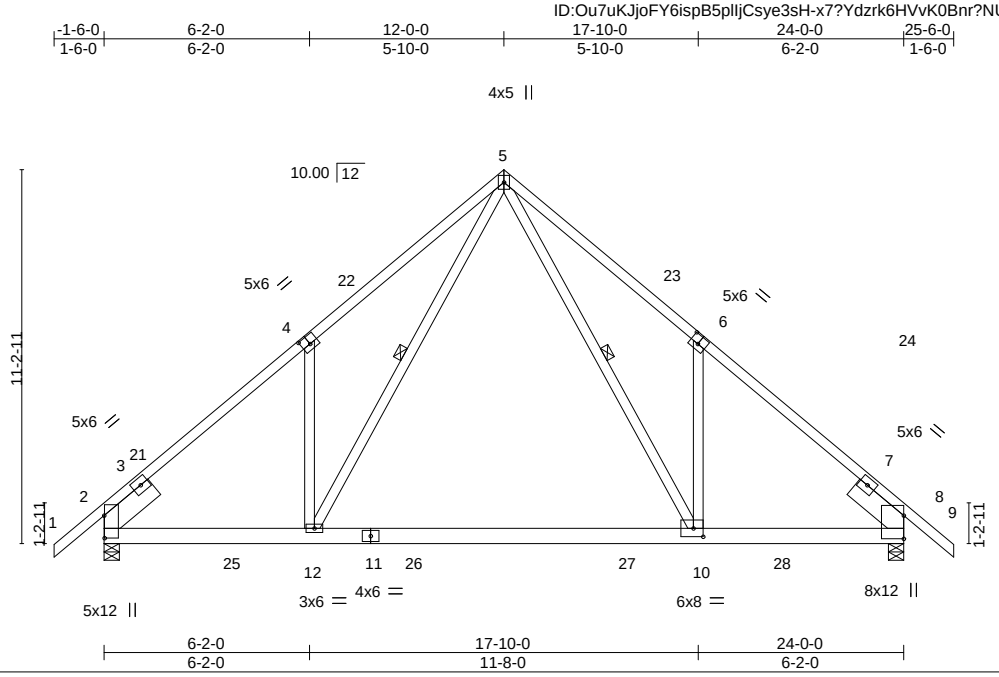


Plate Offsets (X,Y)-- [2:0-8-2,0-0-2], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [10:0-3-8,0-3-0]

| 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 | 0.78 | Vert(LL) | -0.35 | 10-12 | >831 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.92 | Vert(CT) | -0.65 | 10-12 | >446 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.41 | Horz(CT) | 0.05 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 173 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* 1-4,6-9: 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 *Except* 8-11: 2x6 SP M 26 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-4-9 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-10, 5-12 |

**REACTIONS.** (size) 2=0-5-8, 8=0-5-8
Max Horz 2=-278(LC 10)
Max Uplift 2=-352(LC 12), 8=-352(LC 13)
Max Grav 2=1491(LC 19), 8=1491(LC 20)

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

| | |
|---|---|
| TOP CHORD | 2-4=-1808/432, 4-5=-1836/667, 5-6=-1879/672, 6-8=-1846/437 |
| BOT CHORD | 2-12=-352/1474, 10-12=-117/906, 8-10=-238/1376 |
| WEBS | 5-10=-493/1257, 6-10=-294/341, 5-12=-485/1188, 4-12=-287/341 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 352 lb uplift at joint 2 and 352 lb uplift at joint 8.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

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Chesterfield, MO 63017
Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083445 |
|---|---|---|---|---|---|
| 4223140 | T01G | Common Structural Gable | 1 | 1 | Job Reference (optional) |

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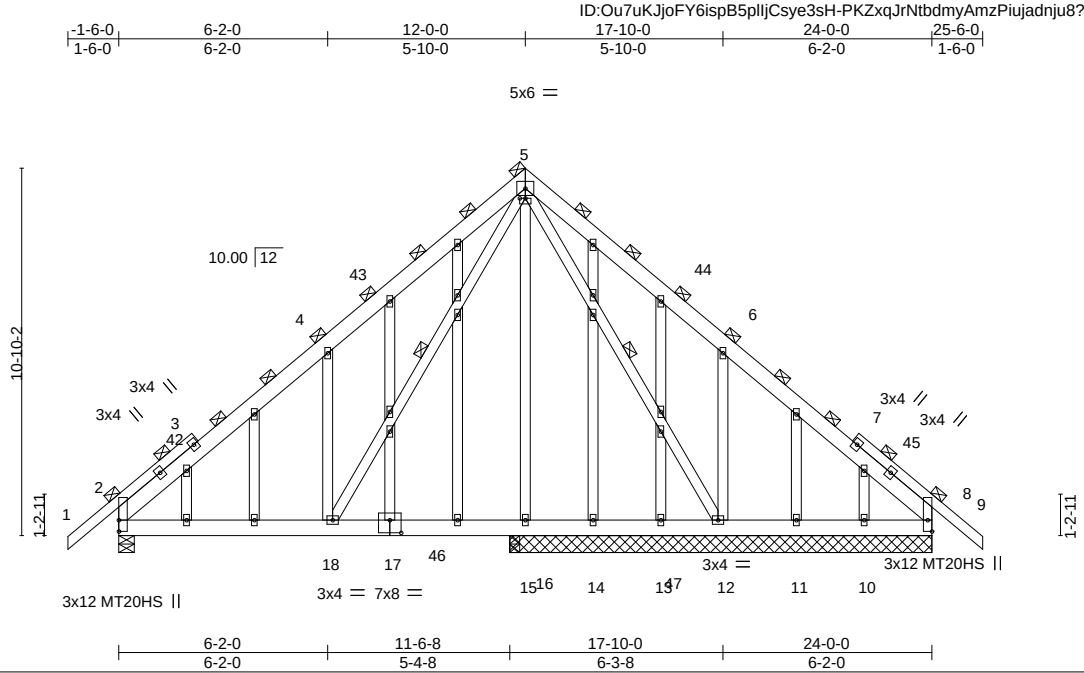


Plate Offsets (X,Y)-- [5:0-2-0,0-0-0], [8:Edge,0-1-8], [17:0-4-0,0-4-8]

| 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 | 0.49 | Vert(LL) | -0.02 | 18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.20 | Vert(CT) | -0.03 | 18-36 | >999 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.30 | Horz(CT) | 0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 266 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2 *Except* 1-3,7-9: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-12, 5-18

**REACTIONS.** All bearings 12-5-8 except (jt=length) 2=0-5-8, 16=0-3-8.
(lb) - Max Horz 2=-266(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8, 16 except 2=-192(LC 12), 12=-313(LC 13), 15=-624(LC 19), 10=-109(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 8, 15, 14, 13, 11, 10, 8 except 2=729(LC 19), 12=720(LC 1), 16=841(LC 19)

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**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-643/163, 4-5=-761/436
BOT CHORD 2-18=-178/629, 16-18=-73/308, 15-16=-73/308, 14-15=-73/308, 13-14=-73/308, 12-13=-73/308
WEBS 5-12=-439/94, 6-12=-409/374, 5-18=-387/668, 4-18=-415/378

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 16, 8 except (jt=lb) 2=192, 12=313, 15=624, 10=109.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083446 |
|---|---|---|---|---|---|
| 4223140 | T01GG | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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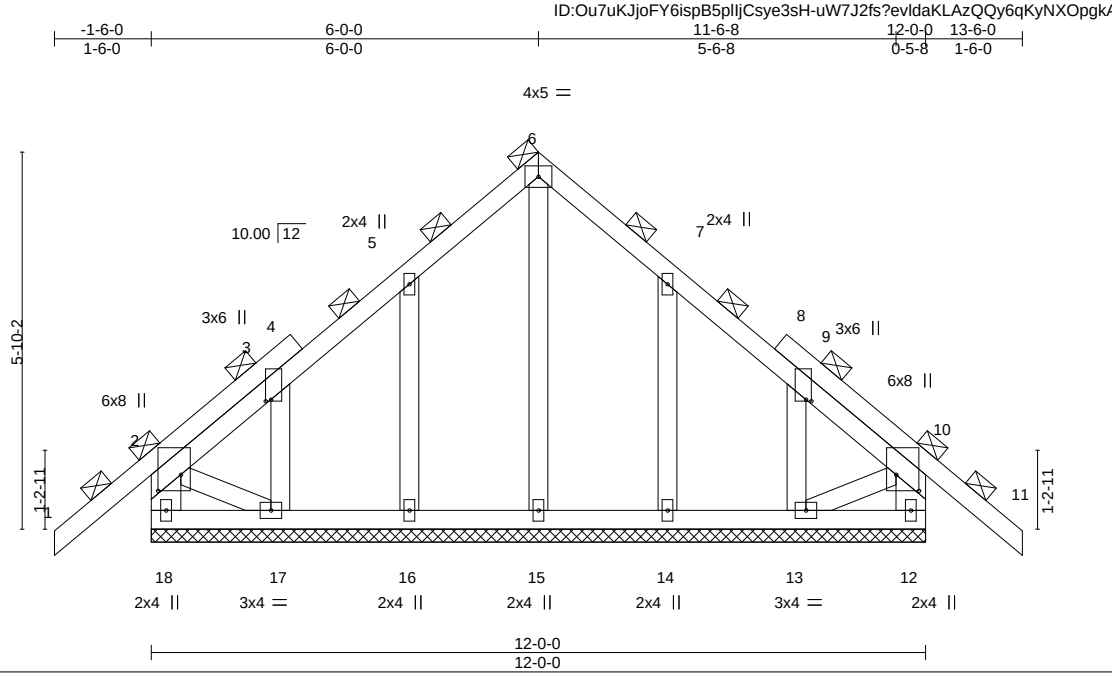


Plate Offsets (X,Y)-- [2:0-3-0,0-4-4], [3:0-0-5,0-1-0], [9:0-0-5,0-1-0], [10:0-3-0,0-4-4]

| 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 | 0.25 | Vert(LL) | -0.01 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.02 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 88 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
2-17,10-13: 2x4 SP No.3
OTHERS 2x4 SP No.3

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

**REACTIONS.** All bearings 12-0-0.
(lb) - Max Horz 18=177(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=-103(LC 12), 17=-135(LC 12), 14=-103(LC 13), 13=-129(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

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

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**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 16=103, 17=135, 14=103, 13=129.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083447 |
|---|---|---|---|---|---|
| 4223140 | T02 | Common | 9 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:33 2024 Page 1
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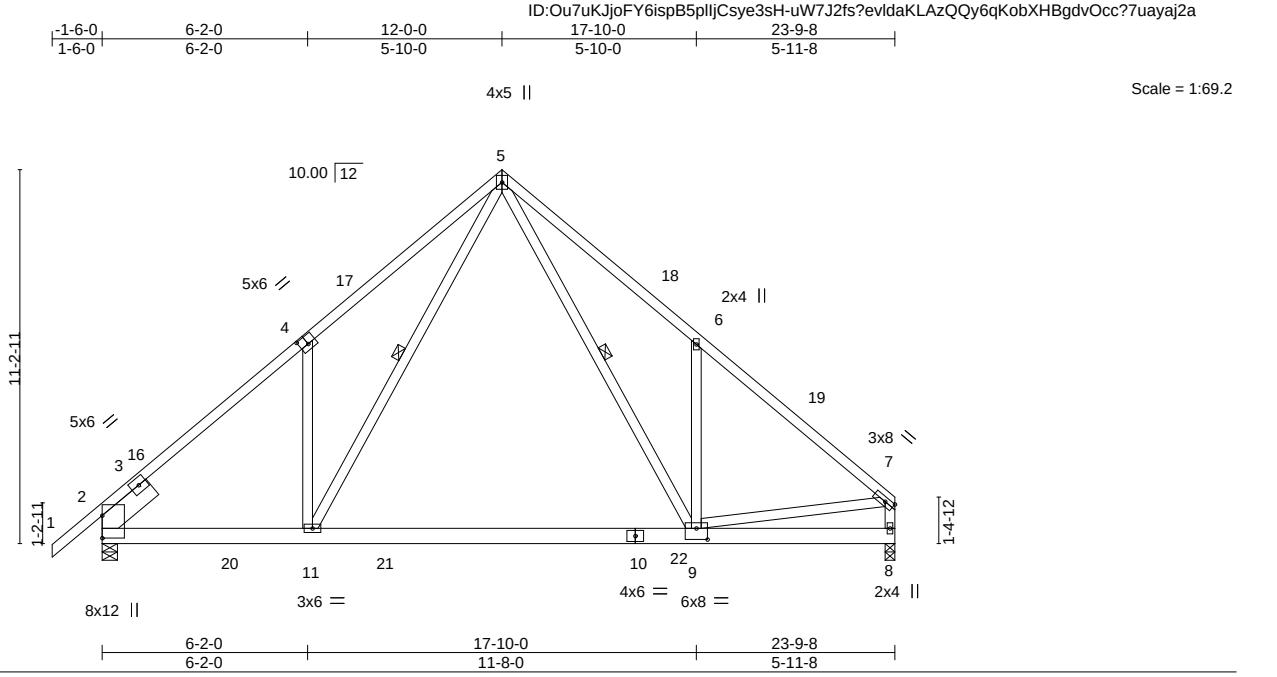


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [9:0-4-0,0-4-0]

| 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 | 0.88 | Vert(LL) | -0.29 | 9-11 | >981 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.54 | 9-11 | >527 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.46 | Horz(CT) | -0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 173 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-9-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-11, 5-9

**REACTIONS.** (size) 2=0-5-8, 8=0-3-8
Max Horz 2=267(LC 9)
Max Uplift 2=-347(LC 12), 8=-310(LC 13)
Max Grav 2=1464(LC 19), 8=1370(LC 20)

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**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1783/429, 4-5=-1822/663, 5-6=-1821/659, 6-7=-1759/413, 7-8=-1432/344
BOT CHORD 2-11=-376/1443, 9-11=-140/867
WEBS 4-11=-307/342, 5-11=-488/1203, 5-9=-480/1202, 6-9=-392/372, 7-9=-230/1317

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-7-12 zone; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 2=347, 8=310.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 5-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024



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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083448 |
|---|---|---|---|---|---|
| 4223140 | T03 | Common | 7 | 1 | Job Reference (optional) |

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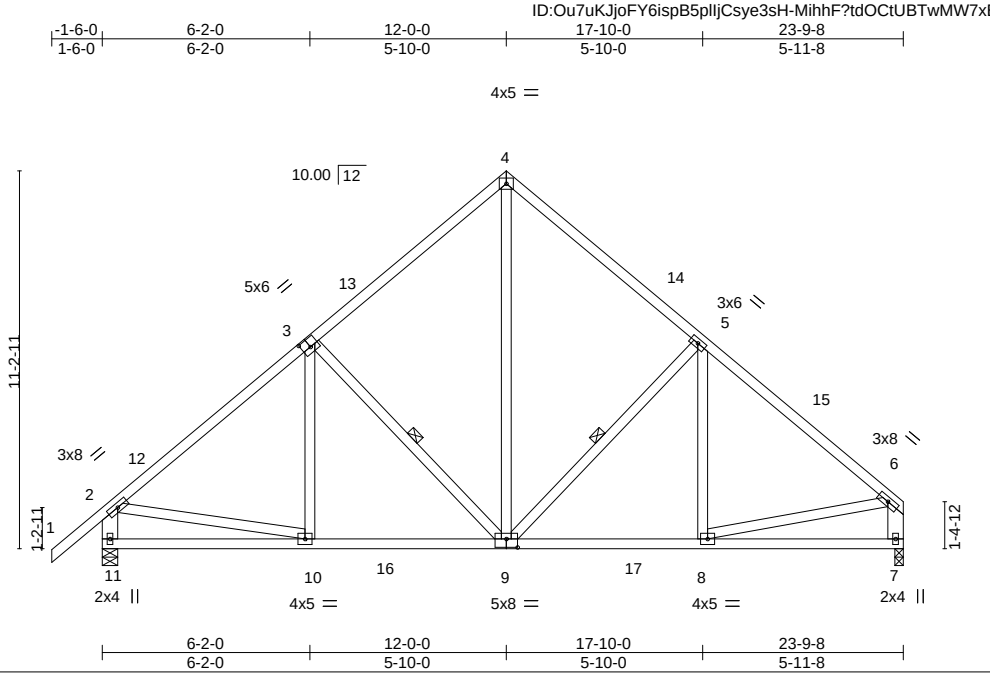


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [9:0-4-0,0-3-0]

| 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 | 0.37 | Vert(LL) | -0.04 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.38 | Vert(CT) | -0.08 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 163 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-11,6-7: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-6-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-9, 5-9

**REACTIONS.** (size) 11=0-5-8, 7=0-3-0
Max Horz 11=287(LC 9)
Max Uplift 11=-236(LC 12), 7=-192(LC 13)
Max Grav 11=1065(LC 19), 7=972(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1074/242, 3-4=-815/295, 4-5=-815/295, 5-6=-1049/233, 2-11=-971/258, 6-7=-881/206
BOT CHORD 10-11=-294/340, 9-10=-235/908, 8-9=-119/767
WEBS 3-9=-409/257, 4-9=-221/659, 5-9=-393/257, 2-10=-48/697, 6-8=-95/701

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**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-6-12 zone; end vertical left 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 100 lb uplift at joint(s) except (jt=lb) 11=236, 7=192.

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Chesterfield, MO 63017
Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083449 |
|---|---|---|---|---|---|
| 4223140 | T04 | Roof Special | 6 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:34 2024 Page 1
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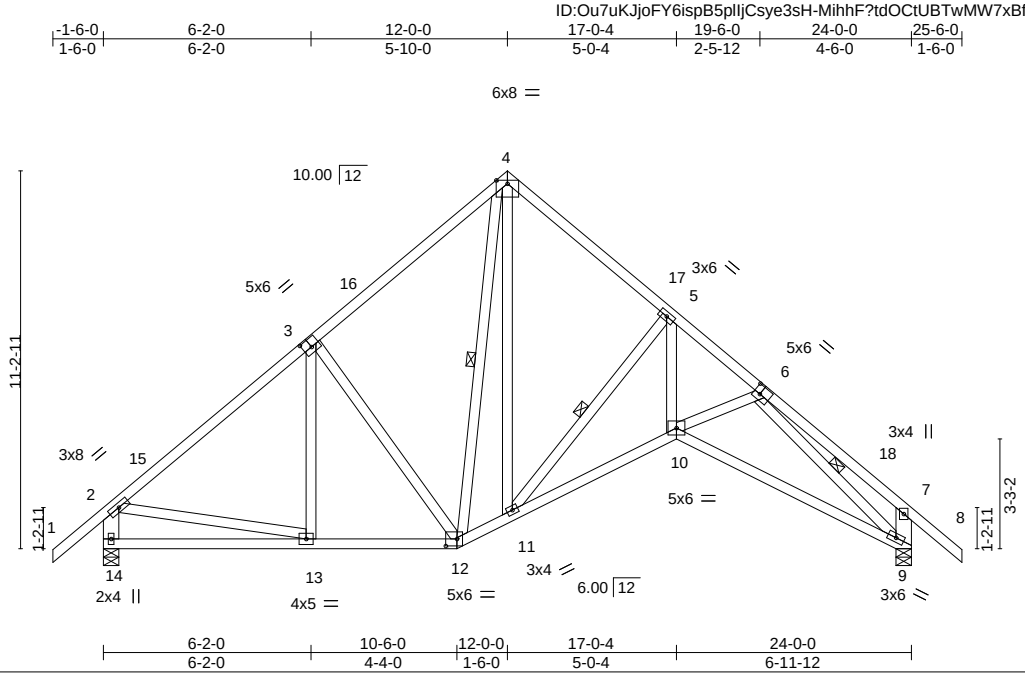


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-2-4,0-3-0], [12:0-4-0,0-2-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.36 | Vert(LL) | -0.09 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.20 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.45 | Horz(CT) | 0.13 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 183 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-14,7-9: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-12, 5-11, 6-9

**REACTIONS.** (size) 14=0-5-8, 9=0-5-8
Max Horz 14=320(LC 11)
Max Uplift 14=-238(LC 12), 9=-238(LC 13)
Max Grav 14=964(LC 1), 9=964(LC 1)

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**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-967/244, 3-4=-775/310, 4-5=-747/302, 5-6=-1614/346, 6-7=-285/173, 2-14=-906/259, 7-9=-365/217
BOT CHORD 13-14=-298/378, 12-13=-188/768, 11-12=-65/653, 10-11=-131/1336, 9-10=-175/1265
WEBS 3-12=-329/258, 4-11=-88/577, 5-11=-1063/235, 5-10=-109/1192, 2-13=-50/575, 6-9=-1472/224

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=238, 9=238.

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Chesterfield, MO 63017
Date:
September 24,2024



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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083450 |
|---|---|---|---|---|---|
| 4223140 | T04G | GABLE | 1 | 1 | Job Reference (optional) |

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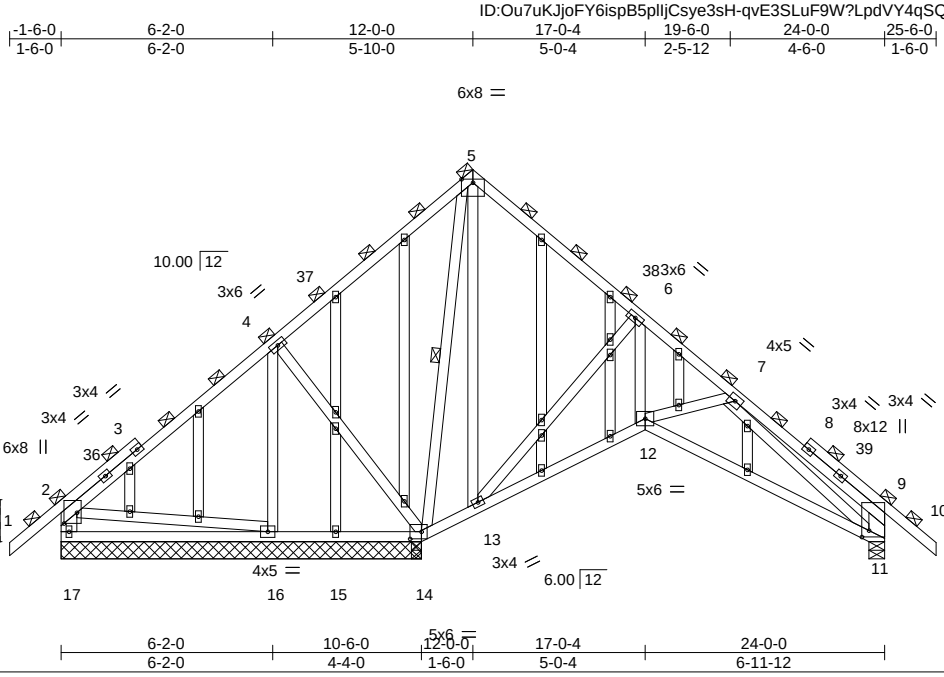


Plate Offsets (X,Y)-- [2:0-3-12,Edge], [9:0-2-4,0-2-8], [14:0-4-0,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES GRIP |
|---|---|---|---|---|---|
| TCLL 20.0 | | Plate Grip DOL 1.25 | TC 0.39 | Vert(LL) -0.08 11-12 >999 240 | MT20 244/190 |
| TCDL 7.0 | | Lumber DOL 1.25 | BC 0.41 | Vert(CT) -0.16 11-12 >999 180 | |
| BCLL 0.0 | * | Rep Stress Incr YES | WB 0.49 | Horz(CT) 0.04 11 n/a n/a | |
| BCDL 10.0 | | Code FBC2023/TPI2014 | Matrix-MS | | Weight: 236 lb FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 *Except* 2-17,9-11: 2x6 SP No.2 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (6-0-0 max.), except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-14 |

**REACTIONS.** All bearings 10-6-0 except (jt=length) 11=0-5-8.
(lb) - Max Horz 17=303(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 15 except 14=-176(LC 12), 16=-137(LC 12), 11=-156(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 15 except 17=266(LC 25), 14=1116(LC 1), 11=1116(LC 1), 16=284(LC 25), 11=427(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-4=-91/292, 4-5=-10/401, 6-7=-289/62, 7-9=-272/164, 9-11=-352/210 |
| BOT CHORD | 16-17=-294/359, 13-14=-240/283, 12-13=-28/277, 11-12=0/352 |
| WEBS | 5-14=-820/0, 5-13=-31/286, 6-13=-469/138, 6-12=0/414, 2-16=-324/258 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 15 except (jt=lb) 14=176, 16=137, 11=156.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083451 |
|---|---|---|---|---|---|
| 4223140 | T05 | Roof Special | 2 | 1 | Job Reference (optional) |

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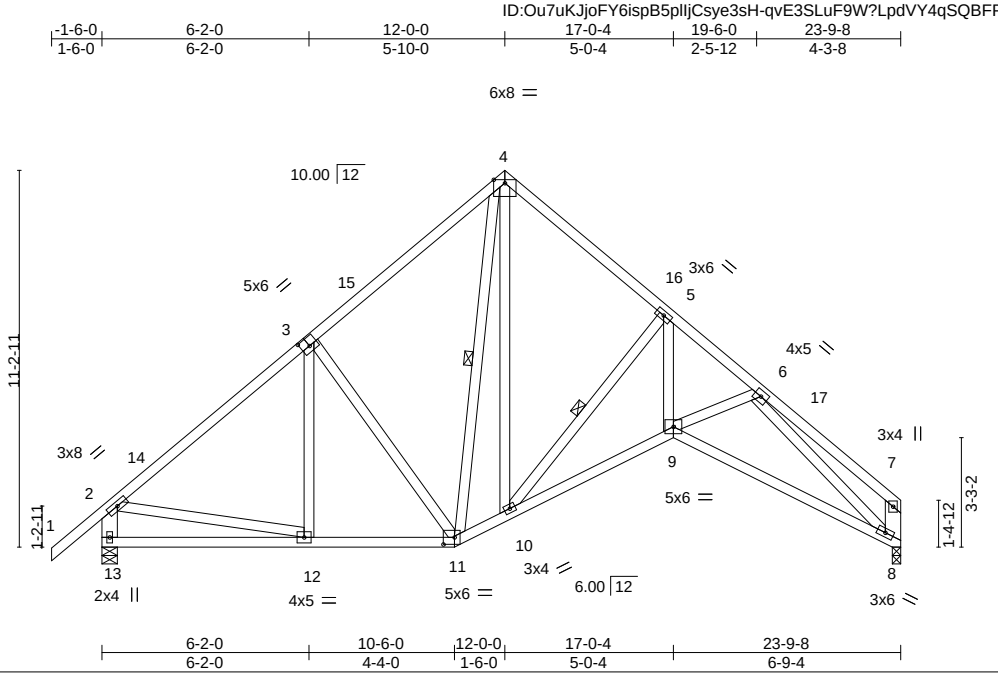


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [11:0-4-0,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.36 | Vert(LL) | -0.08 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.52 | Vert(CT) | -0.18 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.13 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 179 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-13,7-8: 2x6 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 5-10

**REACTIONS.** (size) 13=0-5-8, 8=0-3-0
Max Horz 13=287(LC 9)
Max Uplift 13=-236(LC 12), 8=-192(LC 13)
Max Grav 13=960(LC 1), 8=860(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-962/243, 3-4=-769/309, 4-5=-740/304, 5-6=-1600/394, 2-13=-902/258
BOT CHORD 12-13=-294/342, 11-12=-235/737, 10-11=-68/615, 9-10=-224/1313, 8-9=-256/1235
WEBS 3-11=-330/258, 4-10=-108/567, 5-10=-1038/280, 5-9=-180/1166, 2-12=-50/571, 6-8=-1471/315

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**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-6-12 zone; end vertical left 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.
6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=236, 8=192.

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Date:
September 24,2024




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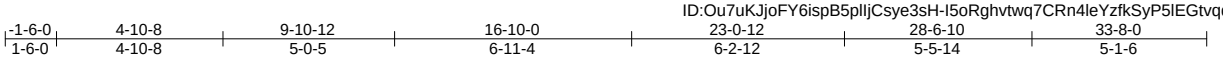
| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083452 |
|---|---|---|---|---|---|
| 4223140 | T06 | Common | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:36 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIljCsye3sH-I5oRghvtwq7CRn4leYzfkSyP5lEGtvqqJaEnVuyaj2X

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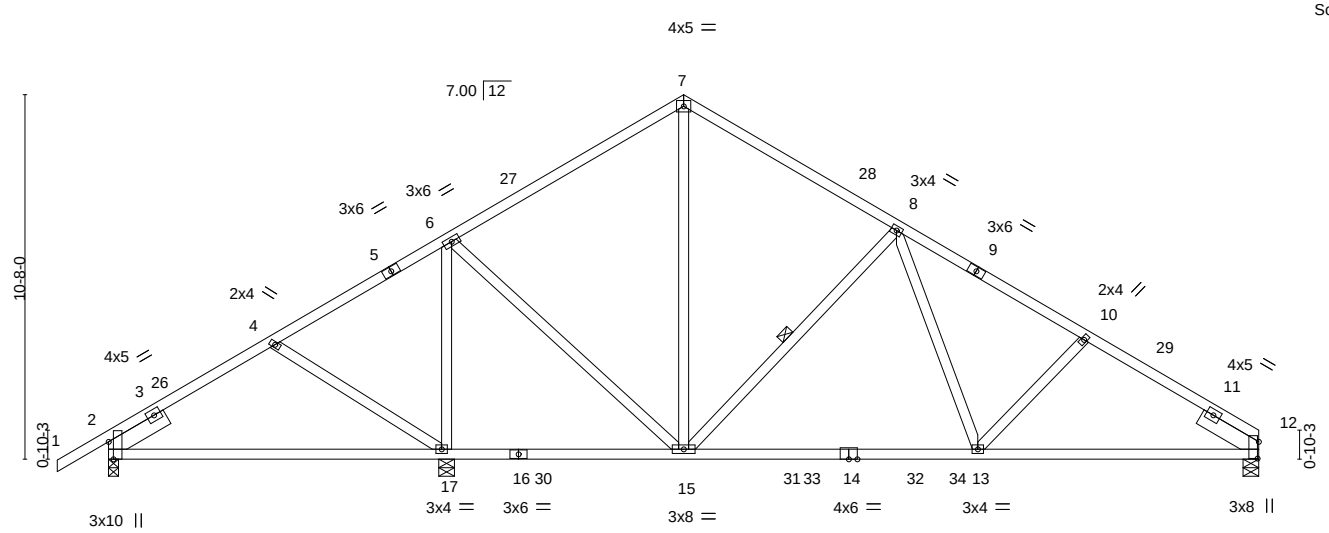


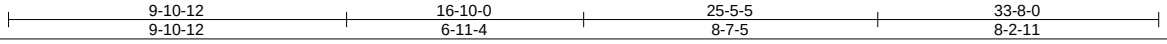


Plate Offsets (X,Y)-- [2:0-6-2,Edge], [12:0-5-14,0-0-7]

| 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) | 0.18 | 17-20 | >653 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.75 | Vert(CT) | -0.16 | 17-20 | >750 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.83 | Horz(CT) | 0.03 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 196 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**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, Except:
6-0-0 oc bracing: 15-17.
WEBS 1 Row at midpt 8-15

**REACTIONS.** (size) 2=0-3-8, 17=0-5-8, 12=0-5-8
Max Horz 2=257(LC 9)
Max Uplift 2=-143(LC 9), 17=-361(LC 12), 12=-230(LC 13)
Max Grav 2=459(LC 27), 17=1510(LC 19), 12=1010(LC 20)

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Examiner-License No.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-776/450, 6-7=-648/249, 7-8=-612/253, 8-10=-1257/327, 10-12=-1380/343
BOT CHORD 2-17=-311/307, 13-15=-103/844, 12-13=-223/1129
WEBS 4-17=-294/183, 6-17=-1095/308, 6-15=-124/770, 7-15=-104/336, 8-15=-674/307, 8-13=-82/496

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-6, Zone1 1-10-6 to 16-10-0, Zone2 16-10-0 to 21-7-2, Zone1 21-7-2 to 33-8-0 zone; end vertical left and right exposed; porch left 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 100 lb uplift at joint(s) except (jt=lb) 2=143, 17=361, 12=230.

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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:
September 24,2024



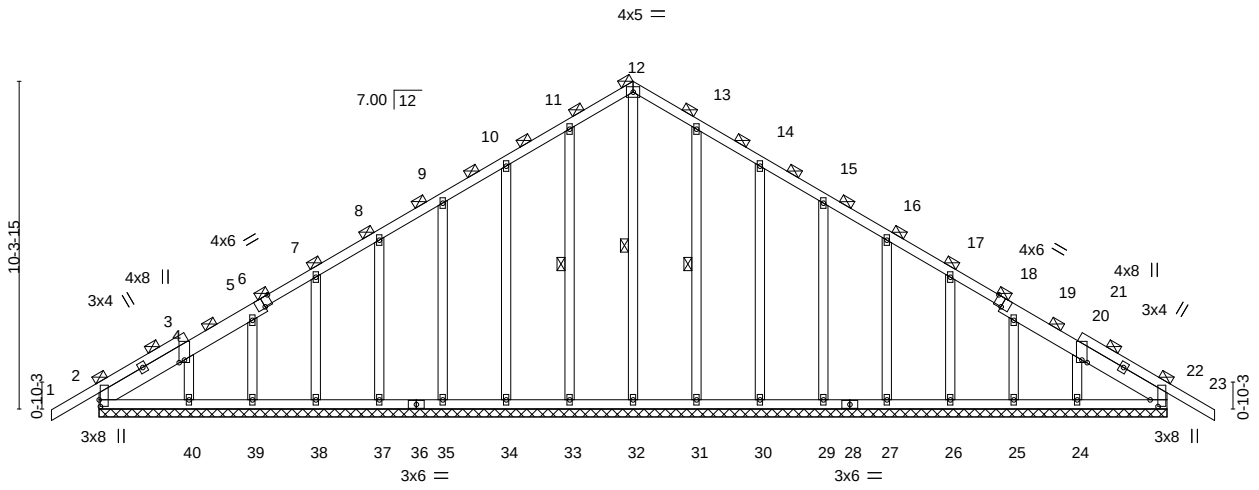

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083453 |
|---|---|---|---|---|---|
| 4223140 | T06G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:37 2024 Page 1
ID:Ou7uKJjoFY6ispB5plIjCsye3sH-mHMqt1vVh7F23xfxCFUuHgUfK9lTcWzzXEzL1Lyaj2W

-1-6-0 16-10-0 33-8-0
1-6-0 16-10-0 16-10-0

Scale = 1:72.6




33-8-0
33-8-0

Plate Offsets (X,Y)-- [2:0-2-8,0-0-7], [3:0-1-0,0-2-0], [6:0-3-0,Edge], [18:0-3-0,Edge], [21:0-1-0,0-2-0], [22:0-2-8,0-2-15]

| 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 | 0.13 | Vert(LL) | -0.00 | 23 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL 1.25 | BC | 0.05 | Vert(CT) | -0.01 | 23 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB | 0.13 | Horz(CT) | 0.01 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 253 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* 2-6,18-22: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-32, 11-33, 13-31

**REACTIONS.** All bearings 33-8-0.
(lb) - Max Horz 2=-256(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 31, 30, 29, 27, 26, 25, 24, 22 except 40=-102(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 37, 38, 39, 40, 31, 30, 29, 25, 24, 22

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

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Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 35, 37, 38, 39, 31, 30, 29, 27, 26, 25, 24, 22 except (jt=lb) 40=102.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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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:
September 24,2024



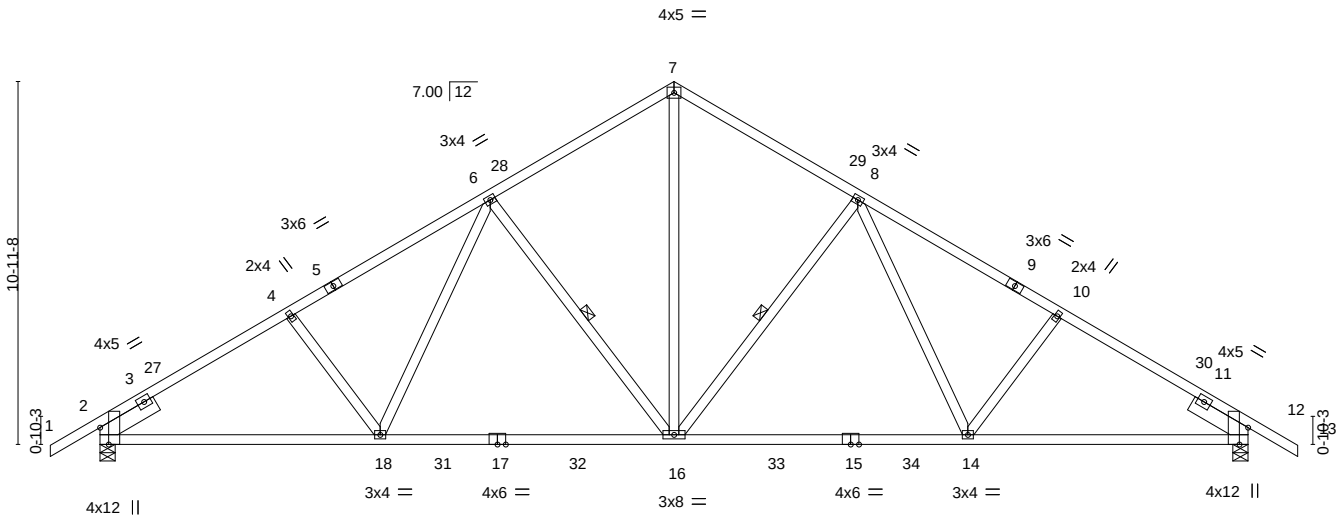

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083454 |
|---|---|---|---|---|---|
| 4223140 | T07 | Common | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:38 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIljCsye3sH-ETwC5Nw8SRNvg5E7lz?7pt1eKYsDLrF7mujuZnyaj2V

| -1-6-0 | 5-9-3 | 11-9-6 | 17-4-0 | 22-10-10 | 28-10-13 | 34-8-0 | 36-2-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-9-3 | 6-0-4 | 5-6-10 | 5-6-10 | 6-0-4 | 5-9-3 | 1-6-0 |

Scale = 1:69.6




| 8-5-9 | 17-4-0 | 26-2-8 | 34-8-0 |
|---|---|---|---|
| 8-5-9 | 8-10-7 | 8-10-8 | 8-5-9 |

Plate Offsets (X,Y)-- [2:0-6-2,Edge], [12:0-6-2,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 | 0.94 | Vert(LL) | -0.29 | 16-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.47 | 16-18 | >890 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 205 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
15-17: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 8-16, 6-16

**REACTIONS.** (size) 2=0-5-8, 12=0-5-8
Max Horz 2=-271(LC 10)
Max Uplift 2=-358(LC 12), 12=-358(LC 13)
Max Grav 2=1577(LC 19), 12=1577(LC 20)

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PX2707 10/24/2024
Examiner-License No.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2203/489, 4-6=-2077/495, 6-7=-1521/417, 7-8=-1521/417, 8-10=-2077/495, 10-12=-2203/489
BOT CHORD 2-18=-492/2010, 16-18=-333/1710, 14-16=-220/1585, 12-14=-309/1807
WEBS 7-16=-294/1238, 8-16=-626/309, 8-14=-111/478, 6-16=-626/309, 6-18=-111/478

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-11-10, Zone1 1-11-10 to 17-4-0, Zone2 17-4-0 to 22-2-13, Zone1 22-2-13 to 36-2-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 100 lb uplift at joint(s) except (jt=lb) 2=358, 12=358.

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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:
September 24,2024




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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083455 |
|---|---|---|---|---|---|
| 4223140 | T08 | Common | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:38 2024 Page 1
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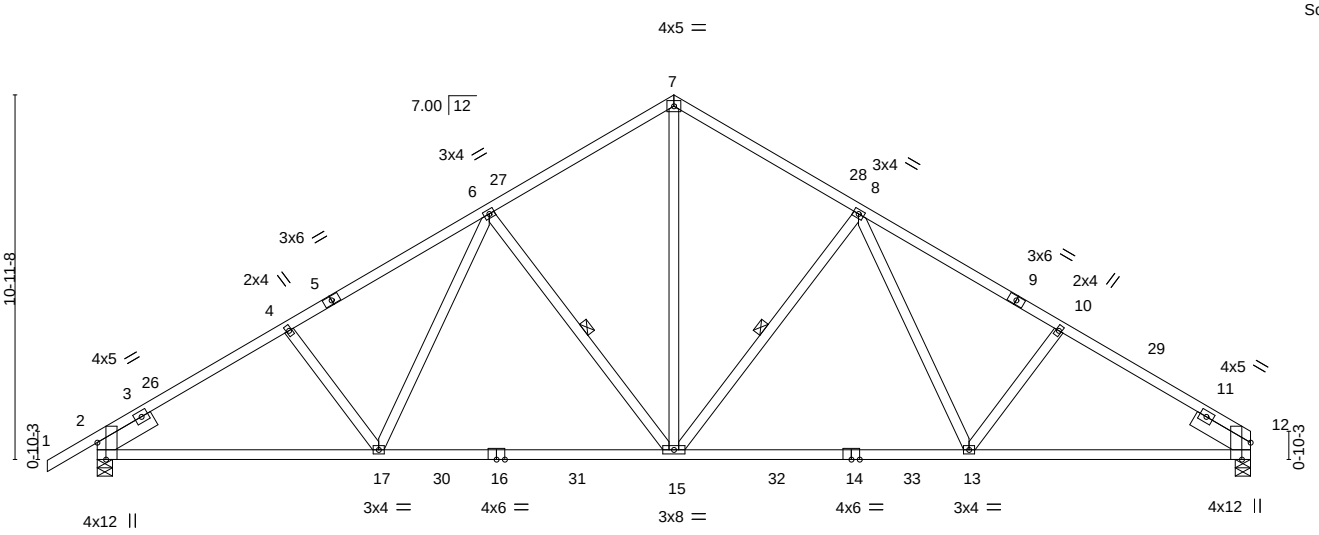
| -1-6-0 | 5-9-3 | 11-9-6 | 17-4-0 | 22-10-10 | 28-10-13 | 34-8-0 |
|---|---|---|---|---|---|---|
| 1-6-0 | 5-9-3 | 6-0-4 | 5-6-10 | 5-6-10 | 6-0-4 | 5-9-3 |

Scale = 1:69.3




| 8-5-9 | 17-4-0 | 26-2-8 | 34-8-0 |
|---|---|---|---|
| 8-5-9 | 8-10-7 | 8-10-8 | 8-5-9 |

Plate Offsets (X,Y)-- [2:0-6-2,Edge], [12:0-6-2,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 | 0.95 | Vert(LL) | -0.29 | 15-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.47 | 15-17 | >891 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.11 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 202 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-16: 2x4 SP No.1
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 8-15, 6-15

**REACTIONS.** (size) 2=0-5-8, 12=0-5-8
Max Horz 2=264(LC 11)
Max Uplift 2=-358(LC 12), 12=-320(LC 13)
Max Grav 2=1578(LC 19), 12=1500(LC 20)

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PX2707 10/24/2024
Examiner-License No.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2205/489, 4-6=-2079/496, 6-7=-1524/419, 7-8=-1523/418, 8-10=-2089/501, 10-12=-2215/494
BOT CHORD 2-17=-507/2001, 15-17=-348/1701, 13-15=-235/1577, 12-13=-344/1826
WEBS 7-15=-295/1241, 8-15=-630/311, 8-13=-115/489, 6-15=-626/309, 6-17=-111/478

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-11-10, Zone1 1-11-10 to 17-4-0, Zone2 17-4-0 to 22-2-13, Zone1 22-2-13 to 34-8-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 100 lb uplift at joint(s) except (jt=lb) 2=358, 12=320.

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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:
September 24,2024



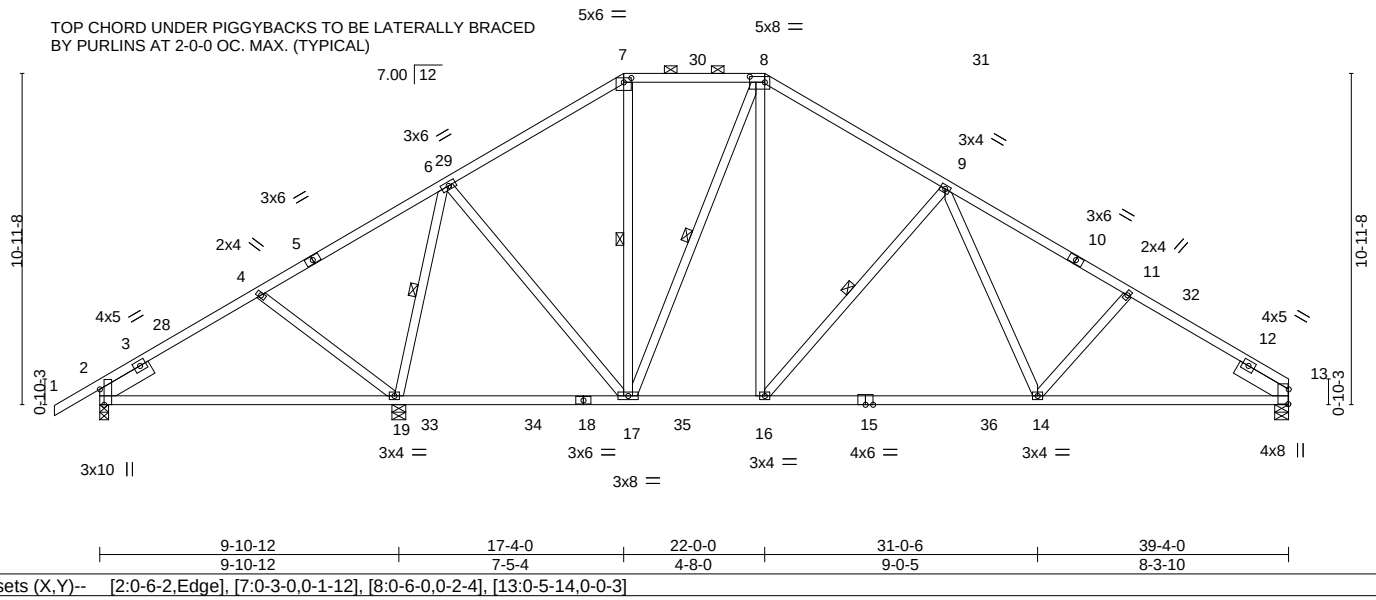

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083456 |
|---|---|---|---|---|---|
| 4223140 | T09 | Piggyback Base | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:39 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIljCsye3sH-igUalixmDlVmIFpKJgXMM5atpyDW4MkG?YSS6Dyaj2U

| 1-6-0 | 5-4-0 | 11-4-6 | 17-4-0 | 22-0-0 | 27-11-10 | 34-0-0 | 39-4-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-4-0 | 6-0-6 | 5-11-10 | 4-8-0 | 5-11-10 | 6-0-6 | 5-4-0 |

Scale = 1:76.2




| 9-10-12 | 17-4-0 | 22-0-0 | 31-0-6 | 39-4-0 |
|---|---|---|---|---|
| 9-10-12 | 7-5-4 | 4-8-0 | 9-0-5 | 8-3-10 |

Plate Offsets (X,Y)-- [2:0-6-2,Edge], [7:0-3-0,0-1-12], [8:0-6-0,0-2-4], [13:0-5-14,0-0-3]

| 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 | 0.64 | Vert(LL) | 0.18 | 19-22 | >640 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.91 | Vert(CT) | -0.50 | 14-16 | >710 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.06 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 249 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8 |

**REACTIONS.** (size) 2=0-3-8, 19=0-5-8, 13=0-5-8
Max Horz 2=265(LC 9)
Max Uplift 2=-156(LC 9), 19=-428(LC 12), 13=-290(LC 13)
Max Grav 2=412(LC 27), 19=1784(LC 19), 13=1233(LC 20)

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

| | |
|---|---|
| TOP CHORD | 2-4=-712/451, 4-6=-88/311, 6-7=-775/300, 7-8=-607/298, 8-9=-1008/333, 9-11=-1650/439, 11-13=-1769/447 |
| BOT CHORD | 2-19=-333/245, 17-19=-216/270, 16-17=-70/813, 14-16=-163/1166, 13-14=-309/1452 |
| WEBS | 4-19=-349/232, 6-19=-1298/344, 6-17=-111/761, 8-17=-620/193, 8-16=-197/830, 9-16=-679/315, 9-14=-94/524 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-3-3 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-19. |
| WEBS | 1 Row at midpt 6-19, 7-17, 8-17, 9-16 |

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**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 17-4-0, Zone3 17-4-0 to 22-0-0, Zone2 22-0-0 to 27-6-12, Zone1 27-6-12 to 39-4-0 zone; end vertical left and right exposed; porch left 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) 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 100 lb uplift at joint(s) except (jt=lb) 2=156, 19=428, 13=290.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:
September 24,2024



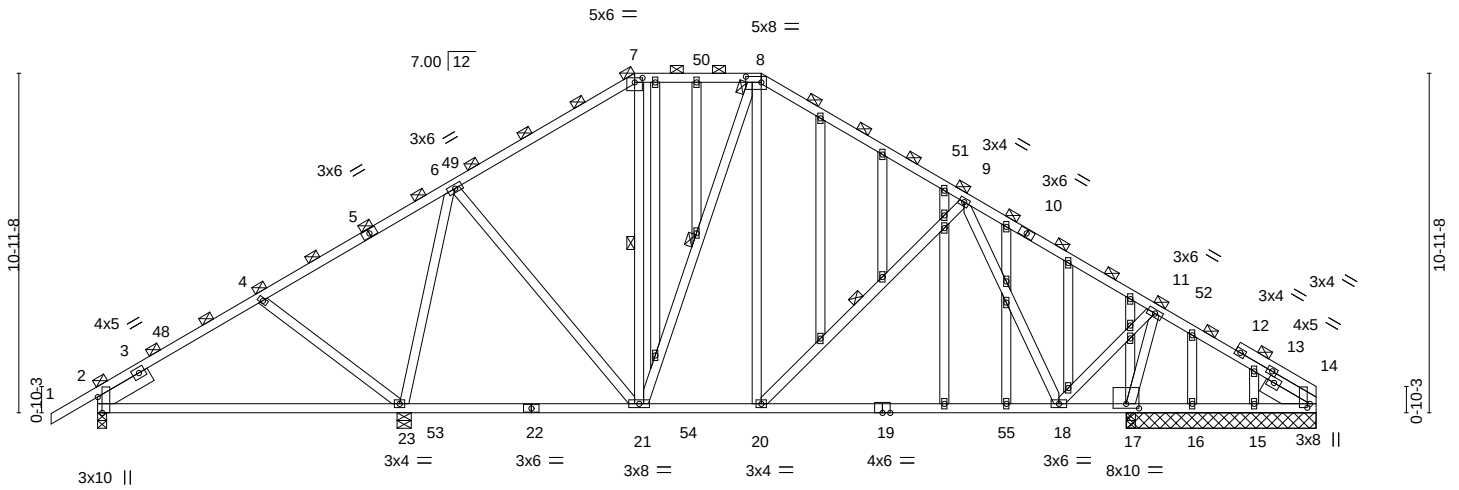

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083457 |
|---|---|---|---|---|---|
| 4223140 | T09G | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:40 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIIjCsye3sH-As2yW2yO_2ddwONWtO2buI65RMZMphkQDCC?egyaj2T

| 1-6-0 | 5-4-0 | 11-4-6 | 17-4-0 | 21-5-1 | 27-11-10 | 34-0-0 | 39-4-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-4-0 | 6-0-6 | 5-11-10 | 4-1-1 | 6-6-9 | 6-0-6 | 5-4-0 |

Scale = 1:74.4




| 9-10-12 | 17-4-0 | 21-5-1 | 31-0-6 | 33-2-8 | 39-4-0 |
|---|---|---|---|---|---|
| 9-10-12 | 7-5-4 | 4-1-1 | 9-7-5 | 2-2-2 | 6-1-8 |

Plate Offsets (X,Y)-- [2:0-6-2,Edge], [7:0-3-0,0-1-12], [8:0-6-0,0-2-4], [14:0-1-8,0-1-0], [17:0-5-0,0-1-12]

| 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 | 0.46 | Vert(LL) | 0.18 | 23-46 | >650 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.94 | Vert(CT) | -0.49 | 18-20 | >579 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.90 | Horz(CT) | 0.02 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 330 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 |
| SLIDER | Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-7-5 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (6-0-0 max.). |
| BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS | 1 Row at midpt 7-21, 8-21, 9-20 |

**REACTIONS.** All bearings 6-1-8 except (jt=length) 2=0-3-8, 23=0-5-8.
(lb) - Max Horz 2=272(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15 except 2=-149(LC 9), 23=-359(LC 12), 17=-300(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16 except 2=529(LC 27), 23=1354(LC 20), 17=1173(LC 20), 17=1029(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-4=-706/449, 4-6=-260/243, 6-7=-687/288, 7-8=-530/285, 8-9=-781/288, 9-11=-614/192 |
| BOT CHORD | 2-23=-325/436, 21-23=-211/400, 20-21=-83/633, 18-20=-63/630, 17-18=-278/81 |
| WEBS | 4-23=-325/227, 6-23=-879/278, 6-21=-29/409, 8-21=-316/119, 8-20=-95/416, 9-18=-444/138, 11-18=-82/1058, 11-17=-1319/279 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 17-4-0, Zone3 17-4-0 to 21-5-1, Zone2 21-5-1 to 26-11-13, Zone1 26-11-13 to 38-9-5 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15 except (jt=lb) 2=149, 23=359, 17=300.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:
September 24,2024




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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083458 |
|---|---|---|---|---|---|
| 4223140 | T10 | Piggyback Base | 11 | 1 | Job Reference (optional) |

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ID:Ou7uKJjoFY6ispB5plIjCsye3sH-f2cKjOy0lMlUXYyiR5ZqRWfEam3GY8QZSsxYA6yaj2S

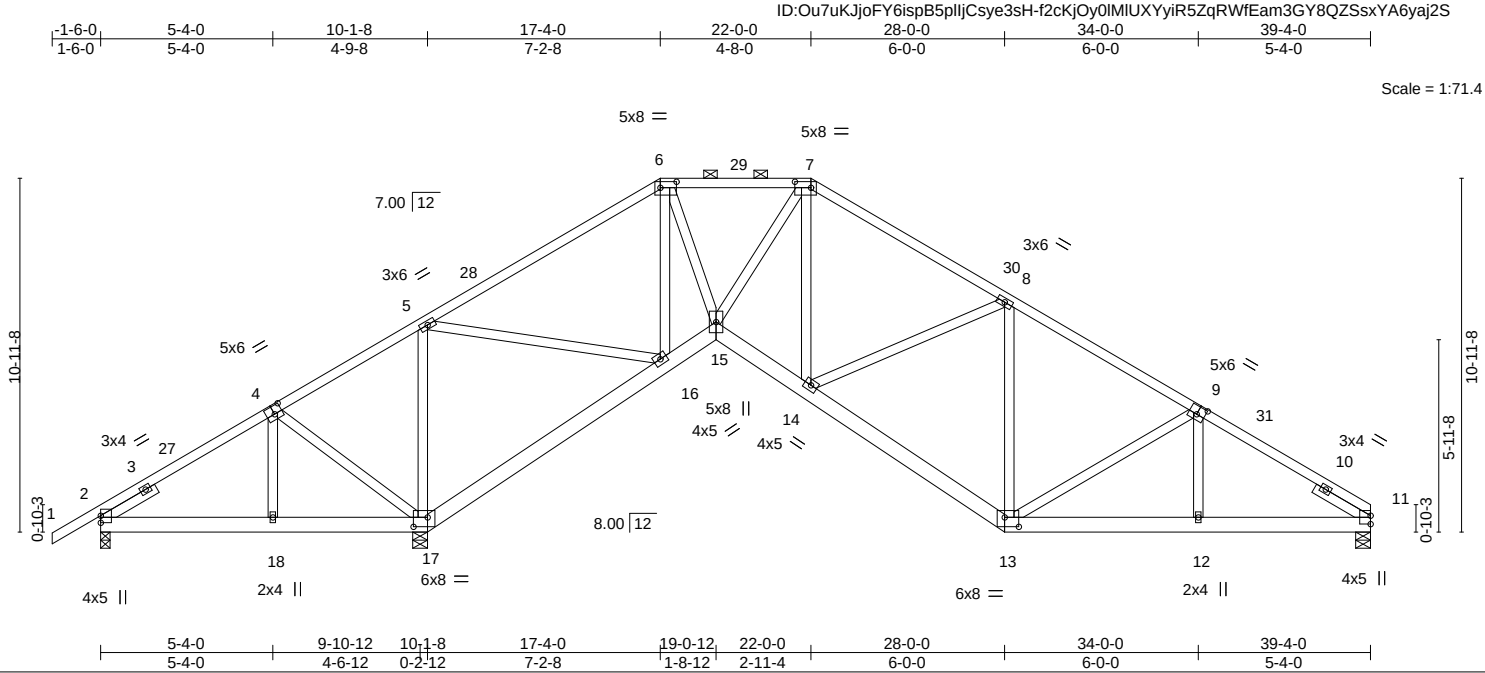


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [6:0-6-0,0-2-4], [7:0-6-0,0-2-4], [9:0-3-0,0-3-0], [13:0-5-4,0-3-8], [17:0-5-4,0-3-8]

| 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 | 0.62 | Vert(LL) | -0.05 | 14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.32 | Vert(CT) | -0.11 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.93 | Horz(CT) | 0.08 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 275 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| SLIDER | Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-11-6 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |

**REACTIONS.** (size) 2=0-3-8, 17=0-5-8, 11=0-5-8
Max Horz 2=265(LC 9)
Max Uplift 2=-222(LC 26), 17=-472(LC 12), 11=-293(LC 13)
Max Grav 2=132(LC 25), 17=2082(LC 1), 11=918(LC 1)

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Examiner-License No.

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

| | |
|---|---|
| TOP CHORD | 2-4=-214/559, 4-5=-105/890, 5-6=-644/177, 6-7=-719/221, 7-8=-962/297, 8-9=-1041/401, 9-11=-1321/443 |
| BOT CHORD | 2-18=-472/175, 17-18=-472/175, 16-17=-917/292, 15-16=-150/532, 14-15=-40/898, 13-14=-194/1039, 12-13=-307/1098, 11-12=-308/1098 |
| WEBS | 4-18=-135/257, 4-17=-397/227, 5-17=-1261/356, 5-16=-77/1211, 6-16=-783/110, 6-15=-41/787, 7-15=-220/260, 7-14=-219/337, 8-14=-214/261, 8-13=-275/56, 9-13=-334/177 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 17-4-0, Zone3 17-4-0 to 22-0-0, Zone2 22-0-0 to 27-6-12, Zone1 27-6-12 to 39-4-0 zone; end vertical left and right exposed; porch left 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) 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 100 lb uplift at joint(s) except (jt=lb) 2=222, 17=472, 11=293.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:
September 24,2024




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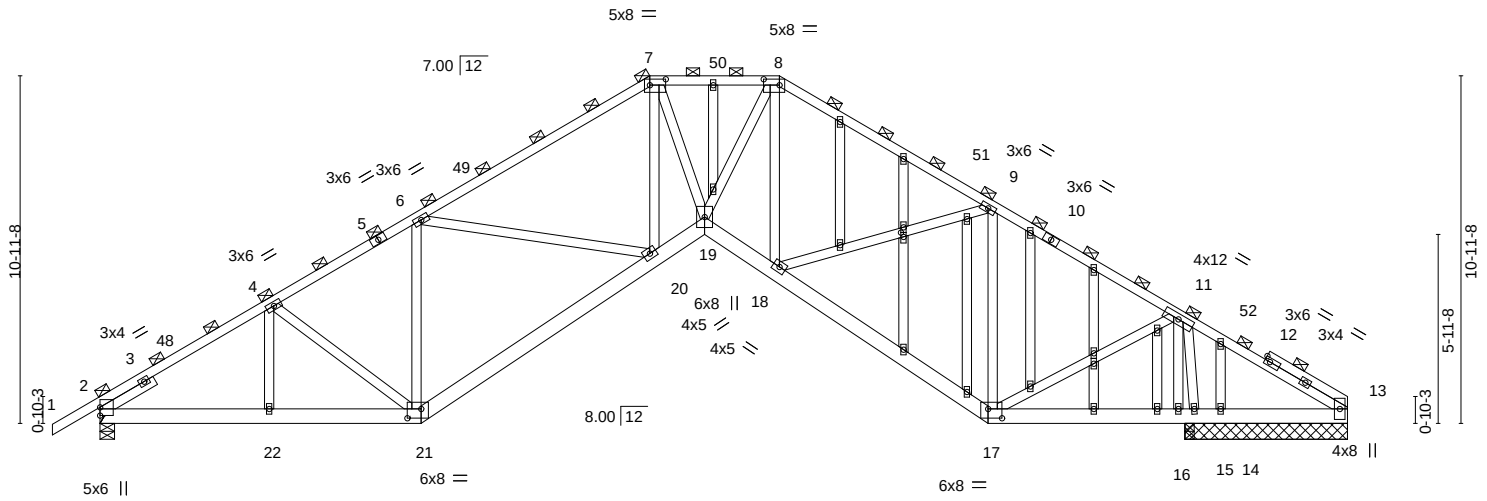
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083459 |
|---|---|---|---|---|---|
| 4223140 | T10G | GABLE I I | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:42 2024 Page 1
ID:Ou7uKJjoFY6ispB5plIjCsye3sH-7FAjxkzeWguL9iXu_p43_jCMBALgHciihWh6jYyaj2R

| 1-6-0 | 5-4-0 | 10-1-8 | 17-4-0 | 21-5-1 | 28-0-0 | 34-0-0 | 39-4-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-4-0 | 4-9-8 | 7-2-8 | 4-1-1 | 6-6-15 | 6-0-0 | 5-4-0 |

Scale = 1:72.6




| 5-4-0 | 10-1-8 | 17-4-0 | 19-0-12 | 21-5-1 | 28-0-0 | 34-0-0 | 34-6-0 | 39-4-0 |
|---|---|---|---|---|---|---|---|---|
| 5-4-0 | 4-9-8 | 7-2-8 | 1-8-12 | 2-4-5 | 6-6-15 | 6-0-0 | 0-6-0 | 4-10-0 |

Plate Offsets (X,Y)-- [7:0-6-0,0-2-4], [8:0-6-0,0-2-4], [17:0-5-4,0-3-8], [21:0-5-4,0-3-8], [35:0-1-10,0-1-0]

| 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 | 0.82 | Vert(LL) | -0.12 | 19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.23 | 19 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.17 | 15 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 328 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 *Except* |
| | 5-7,8-10: 2x4 SP No.1 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |
| SLIDER | Left 2x4 SP No.3 1-11-8 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (3-3-3 max.). |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |

**REACTIONS.** All bearings 5-1-8 except (jt=length) 2=0-5-8.
(lb) - Max Horz 2=265(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-354(LC 12), 13=-381(LC 1), 14=-294(LC 1), 15=-469(LC 12), 13=-381(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 13, 14 except 2=1275(LC 1), 15=2392(LC 1), 15=2392(LC 1)

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Universal Engineering Science

Examiner-License No. PX2707 10/24/2024

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

| | |
|---|---|
| TOP CHORD | 2-4=-1748/469, 4-6=-1583/461, 6-7=-2080/523, 7-8=-1986/532, 8-9=-1761/429, 9-11=-870/304, 11-13=-219/1012 |
| BOT CHORD | 2-22=-492/1465, 21-22=-492/1465, 20-21=-486/1647, 19-20=-362/1969, 18-19=-212/1659, 17-18=-108/845, 16-17=-632/178, 15-16=-632/178, 14-15=-817/214, 13-14=-817/214 |
| WEBS | 6-21=-669/228, 6-20=-8/404, 7-19=-49/819, 8-19=-302/1241, 8-18=-531/175, 9-18=-161/800, 9-17=-1047/232, 11-17=-297/1499, 11-16=-707/196, 11-15=-1170/258 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-5-3, Zone1 2-5-3 to 17-4-0, Zone3 17-4-0 to 21-5-1, Zone2 21-5-1 to 26-11-13, Zone1 26-11-13 to 39-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 2, 381 lb uplift at joint 13, 294 lb uplift at joint 14, 469 lb uplift at joint 15 and 381 lb uplift at joint 13.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083460 |
|---|---|---|---|---|---|
| 4223140 | T11 | Half Hip Girder | 1 | 1 | Job Reference (optional) |

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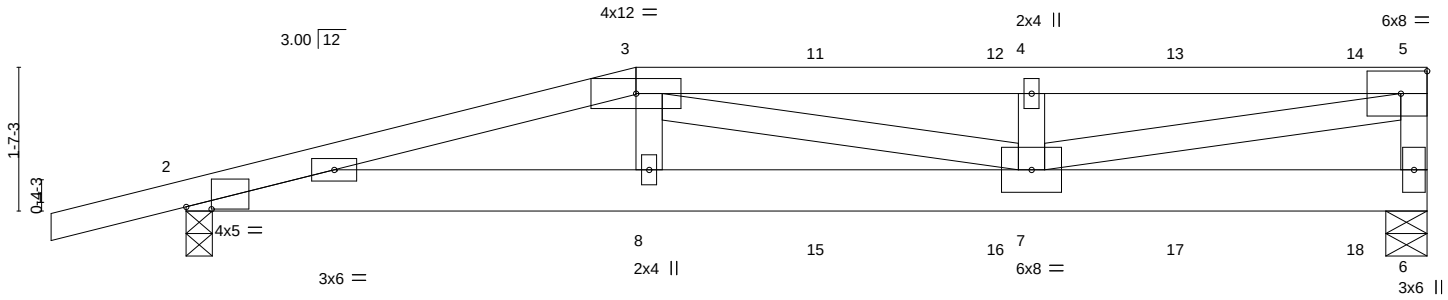
ID:Ou7uKJjoFY6ispB5plIjCsye3sH-bRj584_GHz0Cns65YWbIWxkcWZg305IswAQfF?yaj2Q

-1-6-0 | 5-0-0 | 9-4-12 | 13-9-8
1-6-0 | 5-0-0 | 4-4-12 | 4-4-12

Scale = 1:25.6




5-0-0 | 9-4-12 | 13-9-8
5-0-0 | 4-4-12 | 4-4-12

Plate Offsets (X,Y)-- [2:0-3-6,0-0-5]

| 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 | 0.47 | Vert(LL) | 0.14 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.18 | 7-8 | >921 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 71 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 3-8-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-1 oc bracing.

**REACTIONS.** (size) 6=0-5-8, 2=0-3-8
Max Horz 2=68(LC 25)
Max Uplift 6=-521(LC 4), 2=-486(LC 4)
Max Grav 6=859(LC 1), 2=792(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2175/1291, 3-4=-1956/1185, 4-5=-1956/1185, 5-6=-711/430
BOT CHORD 2-8=-1267/2096, 7-8=-1287/2129
WEBS 3-8=-167/347, 4-7=-382/226, 5-7=-1143/1886

Review for Code Compliance
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PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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 521 lb uplift at joint 6 and 486 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 71 lb up at 5-0-0, 56 lb down and 71 lb up at 7-0-12, 56 lb down and 65 lb up at 9-0-12, and 56 lb down and 71 lb up at 11-0-12, and 68 lb down and 70 lb up at 13-0-12 on top chord, and 130 lb down and 129 lb up at 5-0-0, 45 lb down and 53 lb up at 7-0-12, 45 lb down and 53 lb up at 9-0-12, and 45 lb down and 53 lb up at 11-0-12, and 53 lb down and 53 lb up at 13-0-12 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: 1-3=-54, 3-5=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-56(B) 8=-102(B) 11=-56(B) 12=-56(B) 13=-56(B) 14=-68(B) 15=-40(B) 16=-40(B) 17=-40(B) 18=-44(B)

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:
September 24,2024



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

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | T12 | Half Hip Girder | 1 | 1 | T35083461 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:43 2024 Page 1
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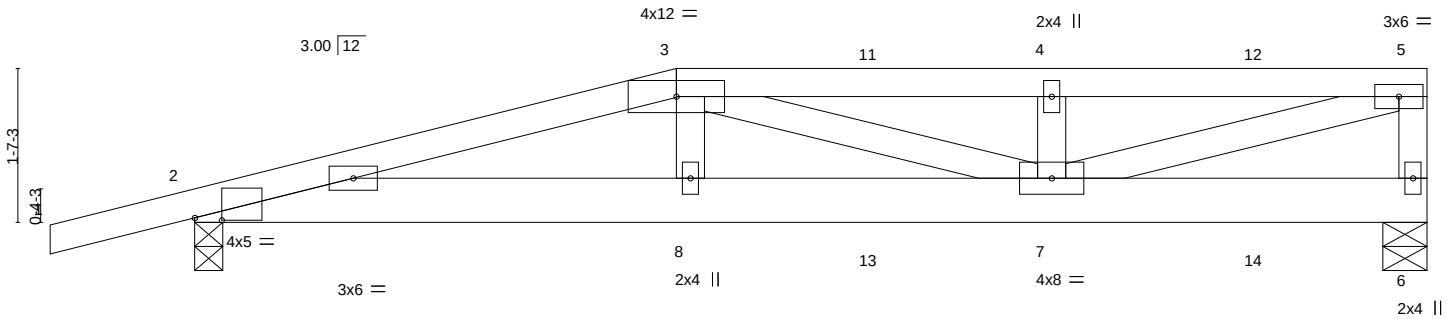


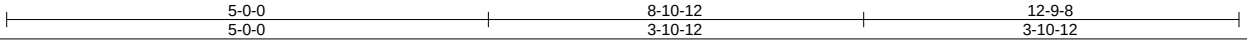


Plate Offsets (X,Y)-- [2:0-3-6,0-0-5]

| 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 | 0.34 | Vert(LL) | 0.11 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.13 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.61 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 66 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 4-0-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-6 oc bracing.

**REACTIONS.** (size) 6=0-5-8, 2=0-3-8
Max Horz 2=68(LC 4)
Max Uplift 6=-443(LC 4), 2=-450(LC 4)
Max Grav 6=733(LC 1), 2=732(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1917/1135, 3-4=-1620/982, 4-5=-1620/982, 5-6=-624/376
BOT CHORD 2-8=-1116/1845, 7-8=-1135/1877
WEBS 3-8=-159/331, 3-7=-269/160, 4-7=-336/198, 5-7=-965/1592

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Universal Engineering Science
PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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 443 lb uplift at joint 6 and 450 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 75 lb down and 71 lb up at 5-0-0, 56 lb down and 71 lb up at 7-0-12, and 56 lb down and 65 lb up at 9-0-12, and 56 lb down and 71 lb up at 11-0-12 on top chord, and 130 lb down and 129 lb up at 5-0-0, 45 lb down and 53 lb up at 7-0-12, and 45 lb down and 53 lb up at 9-0-12, and 45 lb down and 53 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: 1-3=-54, 3-5=-54, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-56(F) 8=-102(F) 4=-56(F) 7=-40(F) 11=-56(F) 12=-56(F) 13=-40(F) 14=-40(F)

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Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083462 |
|---|---|---|---|---|---|
| 4223140 | T13 | Half Hip | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:44 2024 Page 1
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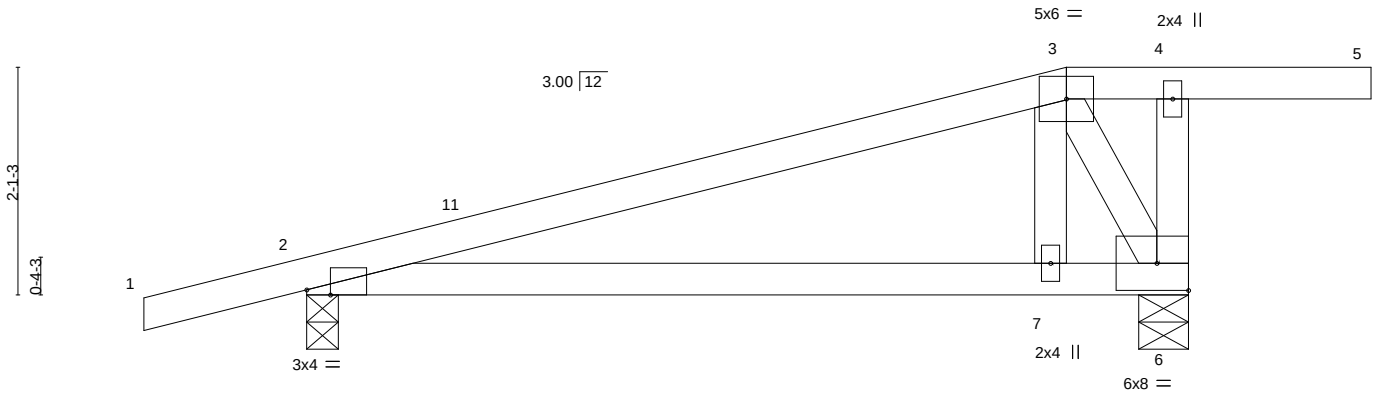


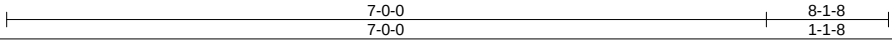


Plate Offsets (X,Y)-- [2:0-2-10,Edge]

| 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 | 0.44 | Vert(LL) | 0.09 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.43 | Vert(CT) | -0.12 | 7-10 | >802 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 36 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-5-8
Max Horz 2=87(LC 8)
Max Uplift 2=-230(LC 8), 6=-219(LC 9)
Max Grav 2=379(LC 25), 6=398(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-309/173
BOT CHORD 2-7=-200/271, 6-7=-181/250
WEBS 3-7=-244/331, 3-6=-552/426

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Universal Engineering Science
PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 7-0-0, Zone3 7-0-0 to 9-9-11 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
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 230 lb uplift at joint 2 and 219 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
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083463 |
|---|---|---|---|---|---|
| 4223140 | T14 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:44 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIIjCsye3sH-3dHTLQ?u2H83O0hH6D6X38Horz2xlhQ?8qACnRyaj2P

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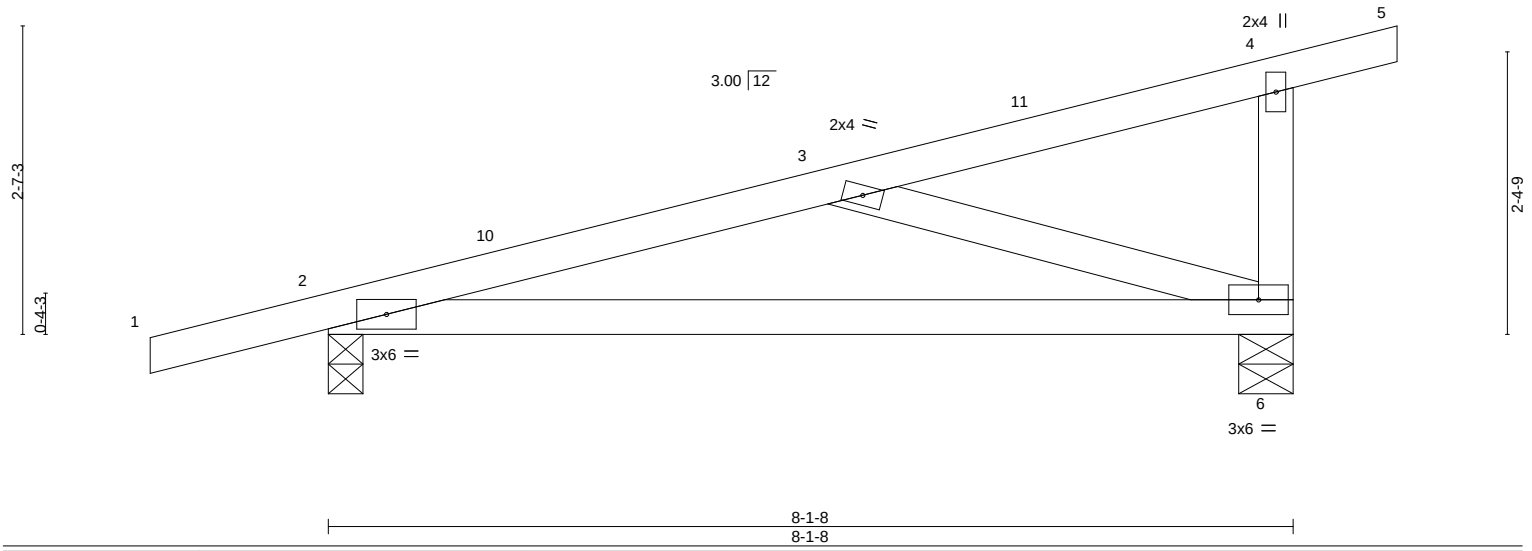


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.43 | Vert(LL) | 0.09 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.17 | 6-9 | >576 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 36 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-2-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-5-8
Max Horz 2=105(LC 8)
Max Uplift 2=-227(LC 8), 6=-203(LC 8)
Max Grav 2=380(LC 1), 6=346(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-518/369
BOT CHORD 2-6=-474/499
WEBS 3-6=-485/456

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Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2 and 203 lb uplift at joint 6.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:
September 24,2024




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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083464 |
|---|---|---|---|---|---|
| 4223140 | T15 | Monopitch | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:45 2024 Page 1
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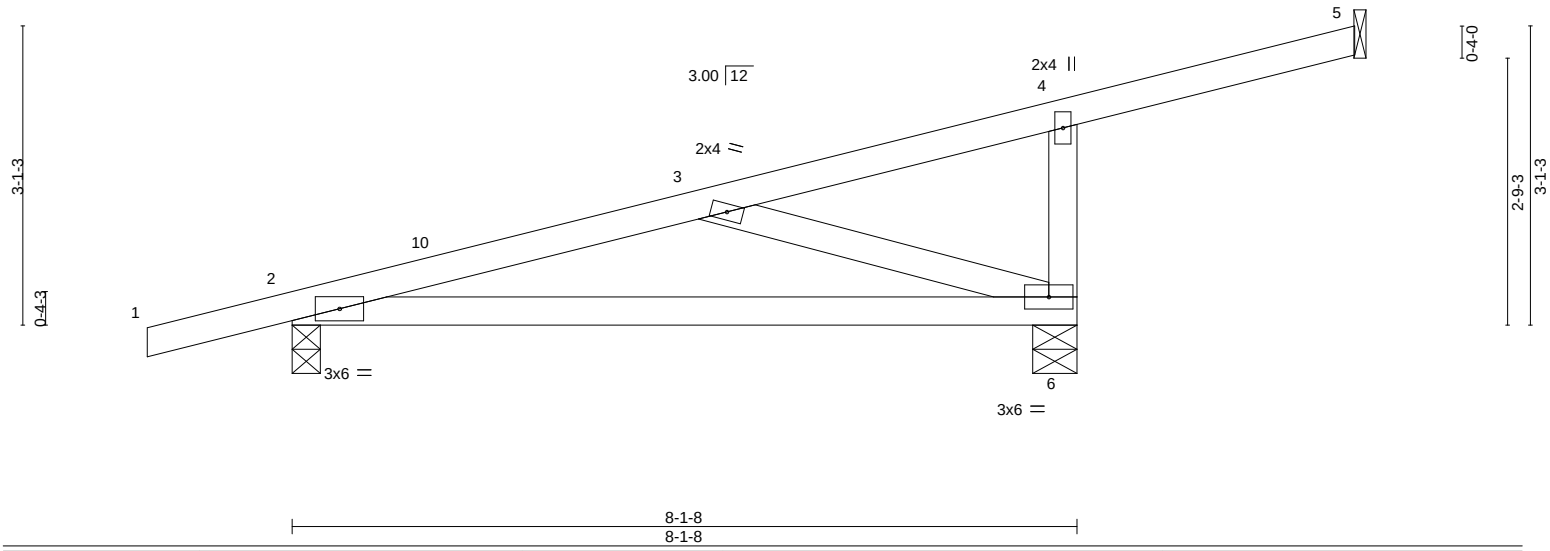
1-6-0 4-6-0 3-7-8 2-10-8

Scale: 1/2"=1'




8-1-8
8-1-8

| 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 | 0.43 | Vert(LL) | 0.09 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.17 | 6-9 | >577 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 40 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-7-7 oc bracing.

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=0-5-8
Max Horz 2=125(LC 8)
Max Uplift 5=-36(LC 8), 2=-219(LC 8), 6=-239(LC 8)
Max Grav 5=59(LC 1), 2=376(LC 1), 6=397(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-497/319
BOT CHORD 2-6=-423/479
WEBS 3-6=-473/415

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Universal Engineering Science

Examiner-License No. PX2707 10/24/2024

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 10-11-4 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 36 lb uplift at joint 5, 219 lb uplift at joint 2 and 239 lb uplift at joint 6.

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Date:
September 24,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | T16 | Monopitch | 4 | 1 | T35083465 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:45 2024 Page 1
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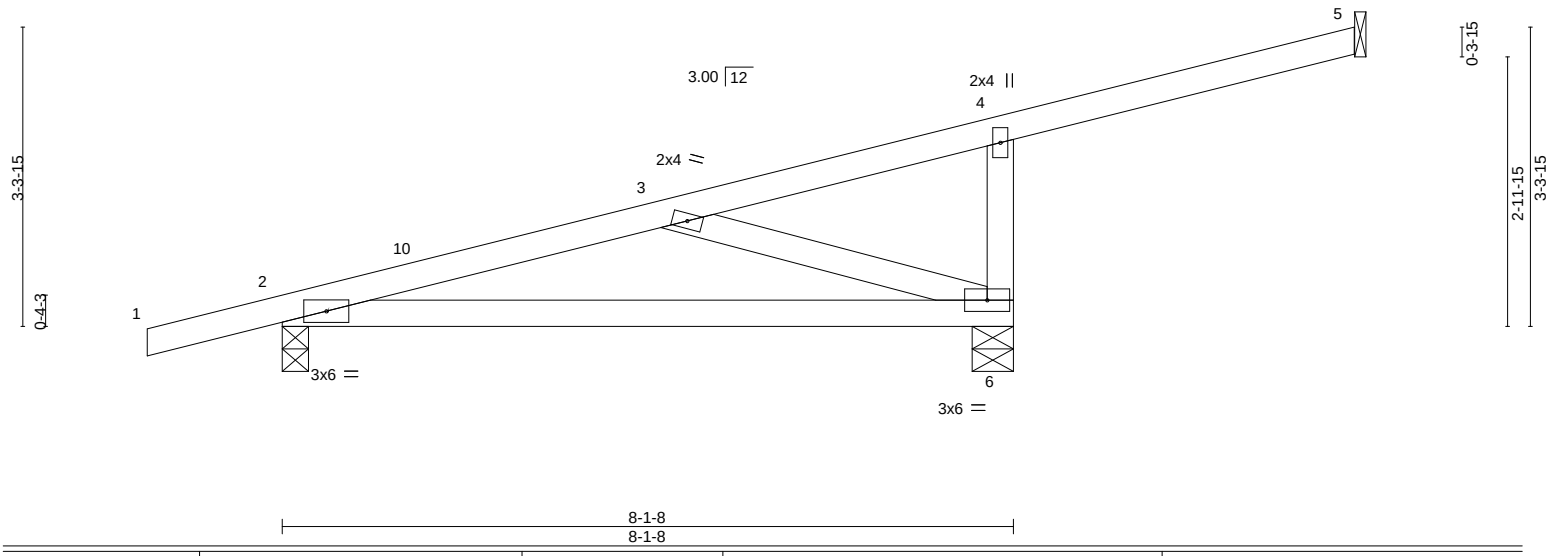


8-1-8
8-1-8

| 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 | 0.43 | Vert(LL) | 0.09 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.17 | 6-9 | >576 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 41 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-0 oc bracing.

**REACTIONS.** (size) 5=Mechanical, 2=0-3-8, 6=0-5-8
Max Horz 2=134(LC 8)
Max Uplift 5=-49(LC 8), 2=-214(LC 8), 6=-258(LC 8)
Max Grav 5=81(LC 1), 2=372(LC 1), 6=427(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-481/294
BOT CHORD 2-6=-410/462
WEBS 3-6=-463/407

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Examiner-License No. PX2707 10/24/2024

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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 11-10-3 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 49 lb uplift at joint 5, 214 lb uplift at joint 2 and 258 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.

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Chesterfield, MO 63017
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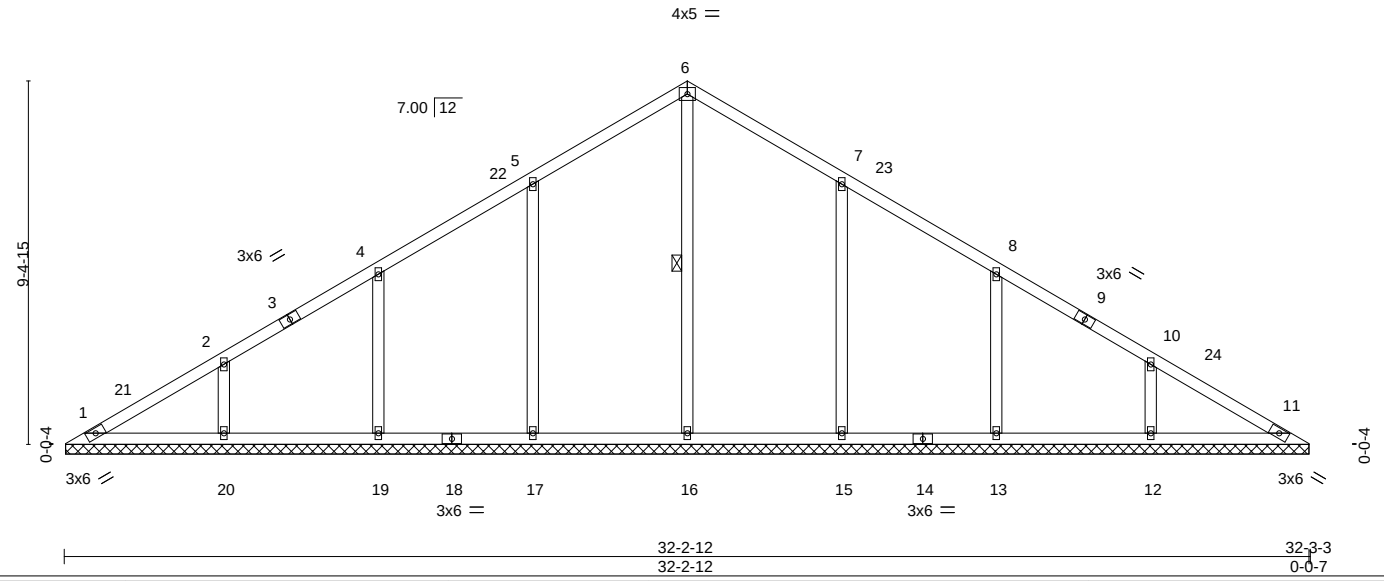
| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | V01 | Valley | 1 | 1 | T35083466 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:46 2024 Page 1
ID:Ou7uKJjoFY6ispB5plIjCsye3sH-?0PDm609auOneJrgDe9?8ZMCQnokDarIc8fJsJyaj2N

16-1-10 32-3-3
16-1-10 16-1-10

Scale = 1:59.7




| 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 | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | 0.01 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 152 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

**REACTIONS.** All bearings 32-2-5.
(lb) - Max Horz 1=225(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 17=-162(LC 12), 19=-144(LC 12), 20=-160(LC 12), 15=-162(LC 13), 13=-145(LC 13), 12=-159(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=386(LC 22), 17=455(LC 19), 19=392(LC 19), 20=393(LC 19), 15=455(LC 20), 13=392(LC 20), 12=392(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-17=-250/186

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PX2707 10/24/2024
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**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-9-2, Zone1 3-9-2 to 16-1-10, Zone2 16-1-10 to 20-8-4, Zone1 20-8-4 to 31-8-11 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1 except (jt=lb) 17=162, 19=144, 20=160, 15=162, 13=145, 12=159.

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Chesterfield, MO 63017
Date:
September 24,2024




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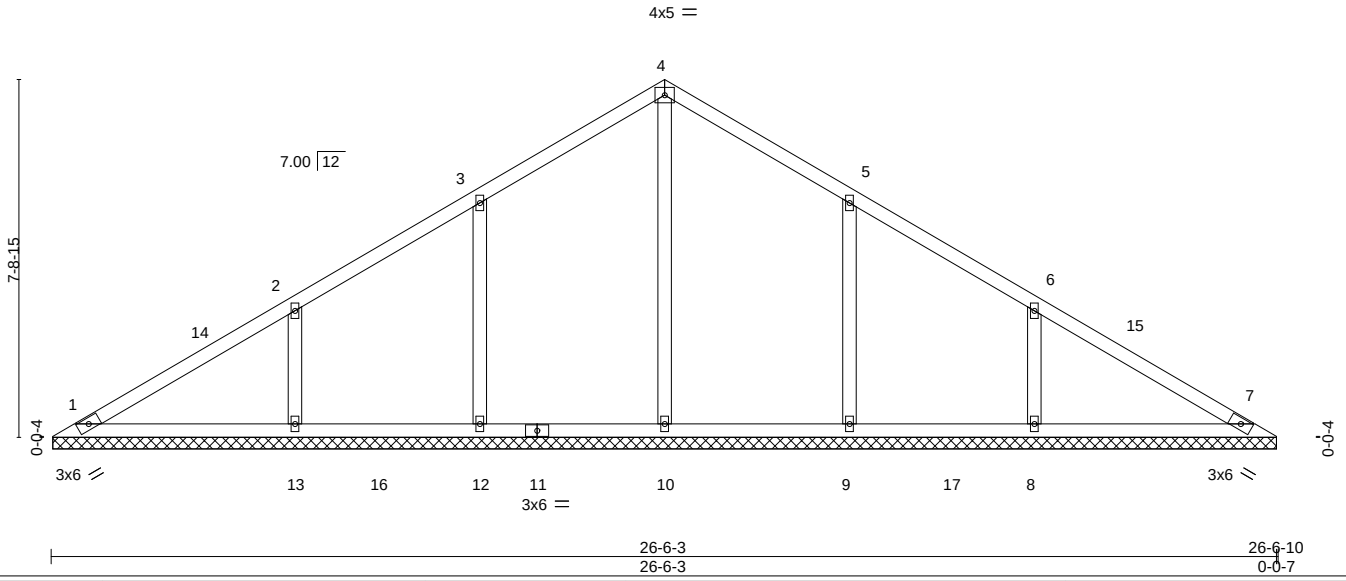
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | V02 | Valley | 1 | 1 | T35083467 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:46 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIljCsye3sH-?0PDm609auOneJrgDe9?8ZMBPnodDbOIc8fJsJyaj2N

13-3-5 26-6-10
13-3-5 13-3-5

Scale = 1:49.9




26-6-3 26-6-10
26-6-3 0-0-7

| 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 | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.18 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.18 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 116 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 26-5-12.
(lb) - Max Horz 1=-184(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-150(LC 12), 13=-187(LC 12), 9=-149(LC 13), 8=-188(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=378(LC 22), 12=415(LC 19), 13=475(LC 19), 9=414(LC 20), 8=476(LC 20)

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PX2707 10/24/2024
Examiner-License No.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-13=-285/208, 6-8=-285/208

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 13-3-5, Zone2 13-3-5 to 17-3-5, Zone1 17-3-5 to 26-0-2 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=150, 13=187, 9=149, 8=188.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024




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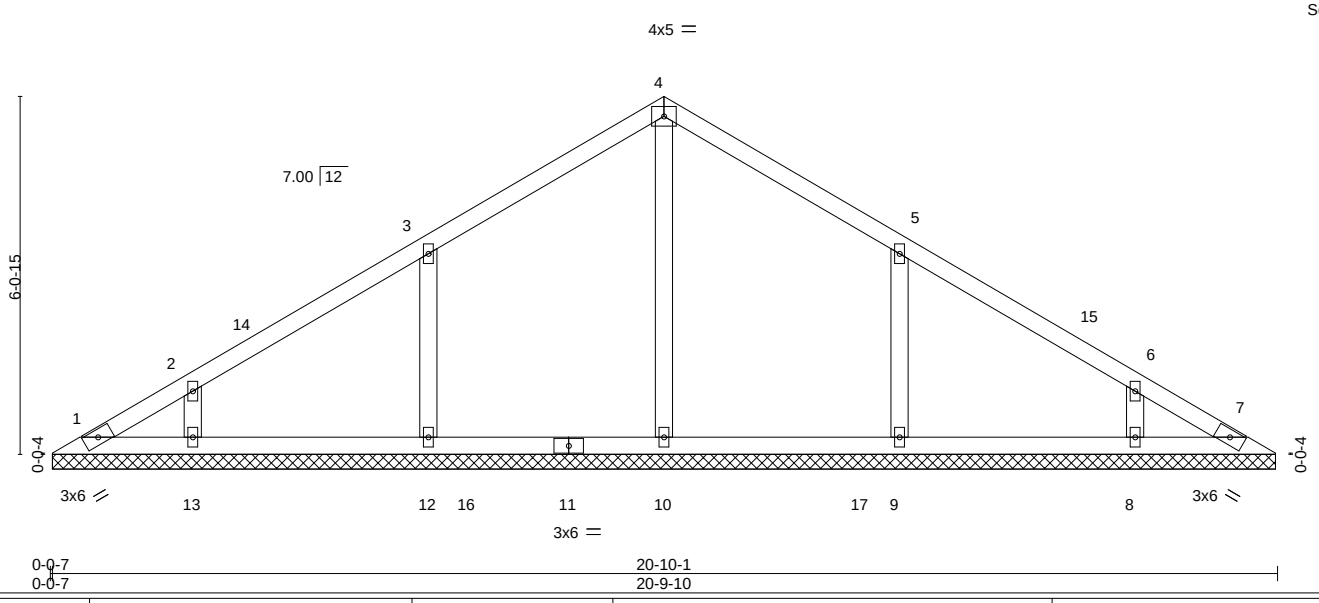
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. T35083468 |
|---|---|---|---|---|---|
| 4223140 | V03 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:47 2024 Page 1
ID:Ou7uKJjoFY6ispB5plljCsye3sH-TCzc_S1nLCWeFTQsnMgEhnvM1B8_y3sSrnOtOmyaj2M

10-5-0 20-10-1
10-5-0 10-5-0

Scale = 1:39.1




0-0-7 20-10-1
0-0-7 20-9-10

| 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 | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.00 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 85 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 20-9-3.
(lb) - Max Horz 1=-142(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-167(LC 12), 13=-122(LC 12), 9=-167(LC 13), 8=-122(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=358(LC 19), 12=422(LC 19), 13=304(LC 19), 9=421(LC 20), 8=304(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-12=-257/192, 5-9=-257/192

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Examiner-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 10-5-0, Zone2 10-5-0 to 14-5-0, Zone1 14-5-0 to 20-3-9 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=167, 13=122, 9=167, 8=122.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:
September 24,2024




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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | V04 | Valley | 1 | 1 | T35083469 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:47 2024 Page 1
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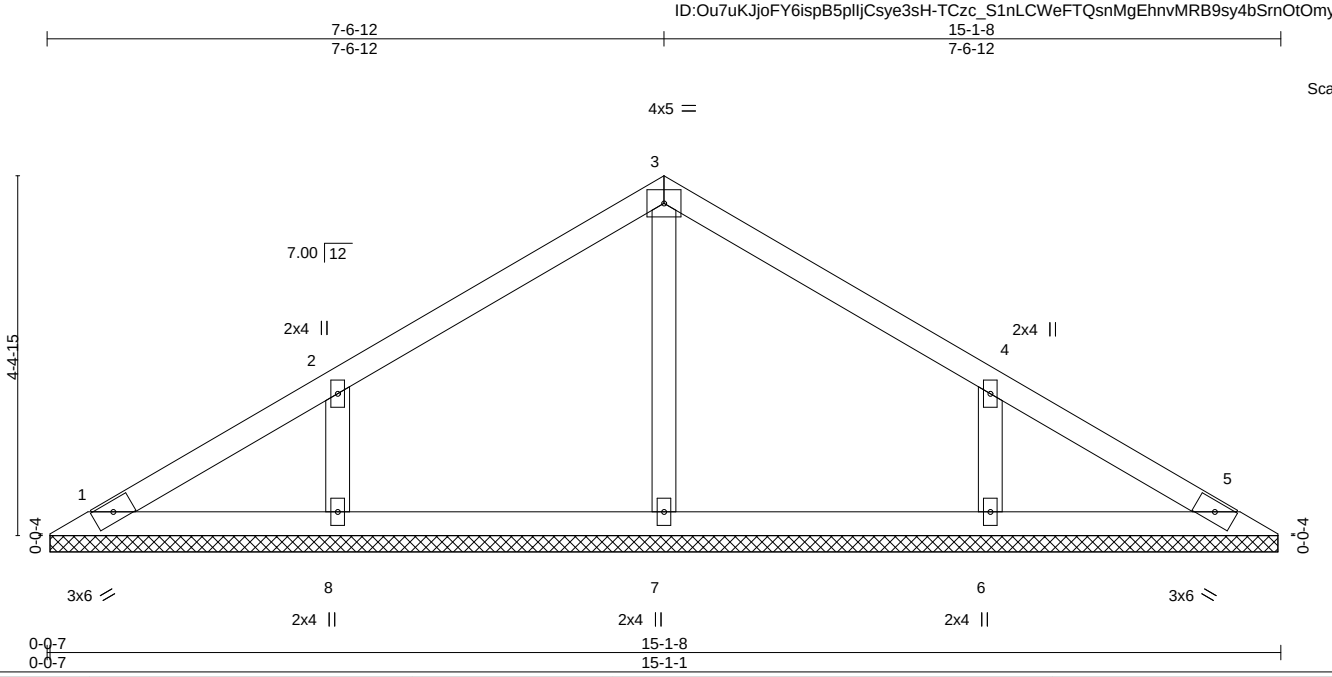


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.15 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 57 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 15-0-10.
(lb) - Max Horz 1=101(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-160(LC 12), 6=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=322(LC 19), 6=322(LC 20)

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

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Certificate of Authorization No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-12, Zone1 3-6-12 to 7-6-12, Zone2 7-6-12 to 11-6-12, Zone1 11-6-12 to 14-7-0 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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=160, 6=160.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
September 24,2024




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Chesterfield, MO 63017
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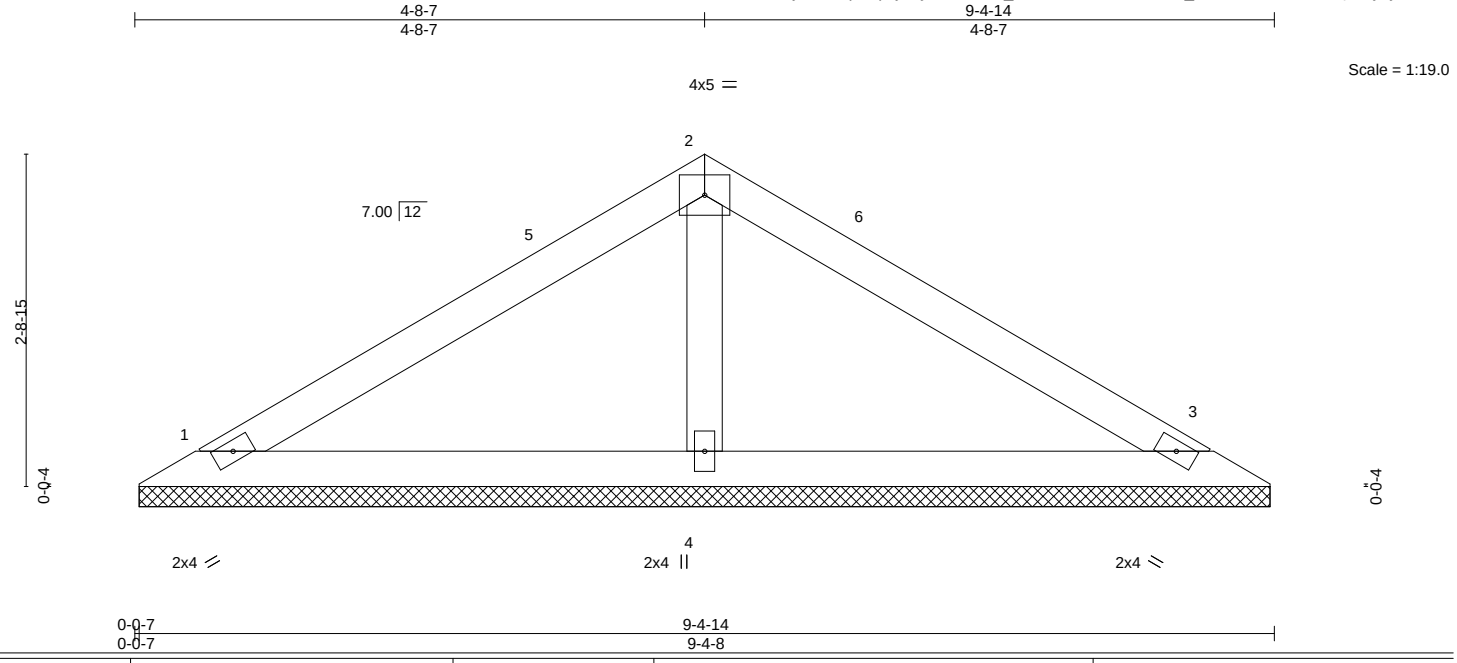
| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | V05 | Valley | 1 | 1 | T35083470 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:48 2024 Page 1
ID:Ou7uKJjoFY6ispB5pIIjCsye3sH-xPX_Bn2P5WeVtd?2L3BTD_SWOaTChX4b3R8QwCyaj2L




| 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 | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 31 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=9-4-1, 3=9-4-1, 4=9-4-1
Max Horz 1=-60(LC 8)
Max Uplift 1=-48(LC 12), 3=-56(LC 13), 4=-59(LC 12)
Max Grav 1=145(LC 1), 3=145(LC 1), 4=326(LC 1)

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

Review for Code Compliance
Universal Engineering Science

PX2707 10/24/2024
Engineer-License No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 4-8-7, Zone3 4-8-7 to 8-10-7 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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1, 3, 4.

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Chesterfield, MO 63017
Date:
September 24,2024




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | AMIRA BLDRS. - KLINE RES. |
|---|---|---|---|---|---|
| 4223140 | V06 | Valley | 1 | 1 | T35083471 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Mon Sep 23 15:02:48 2024 Page 1
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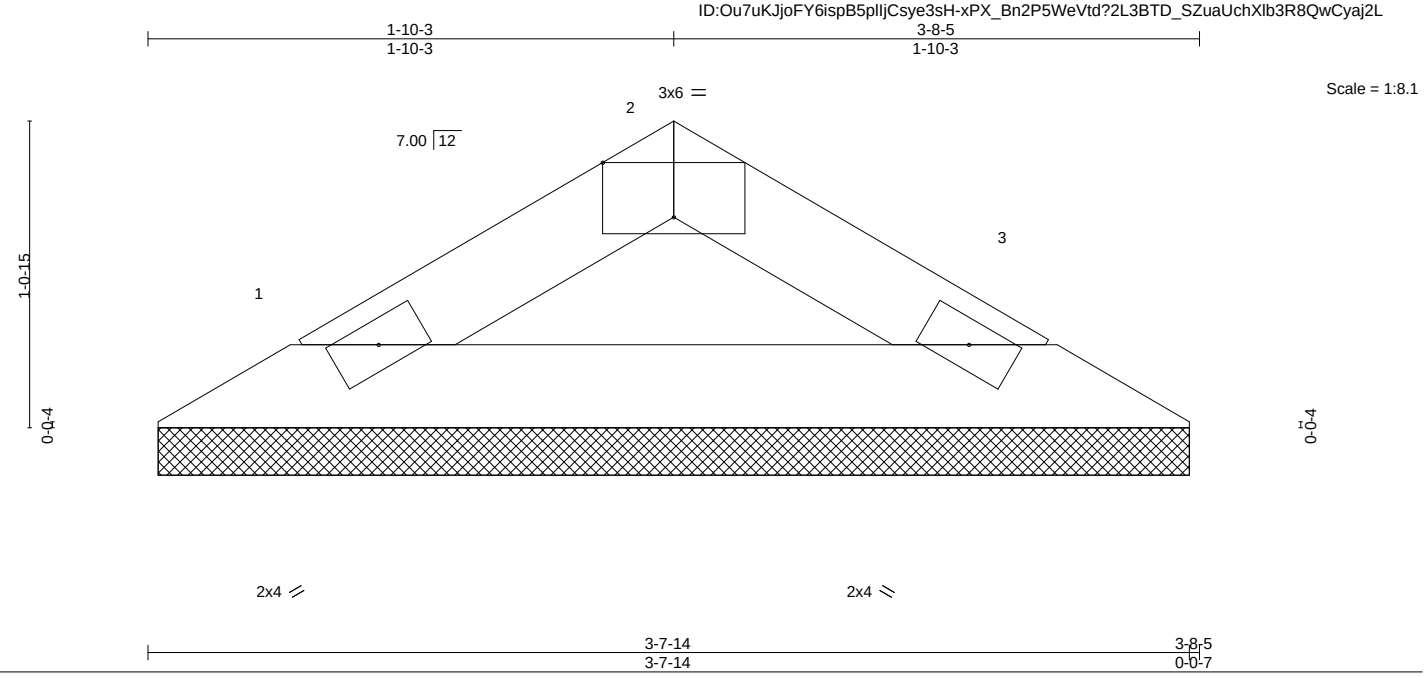


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.04 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-P | | | | | | | Weight: 10 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 3-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-7-8, 3=3-7-8
Max Horz 1=-19(LC 10)
Max Uplift 1=-24(LC 12), 3=-24(LC 13)
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.

Review for Code Compliance
Universal Engineering Science

Joaquin Velez PE No.68182 PX2707 10/24/2024
MiTek Inc. DBA MiTek USA FL Cert 6634 Certificate of Authorization No.

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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
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) Gable requires continuous bottom chord bearing.
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 100 lb uplift at joint(s) 1, 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:
September 24,2024




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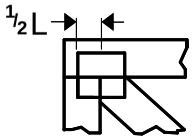
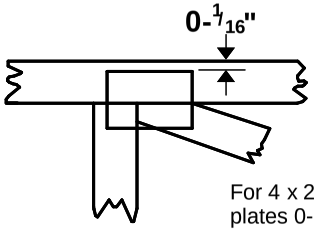
# Symbols

## PLATE LOCATION AND ORIENTATION




Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.




For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

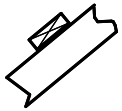
* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

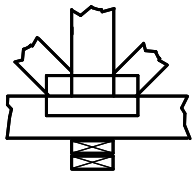
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

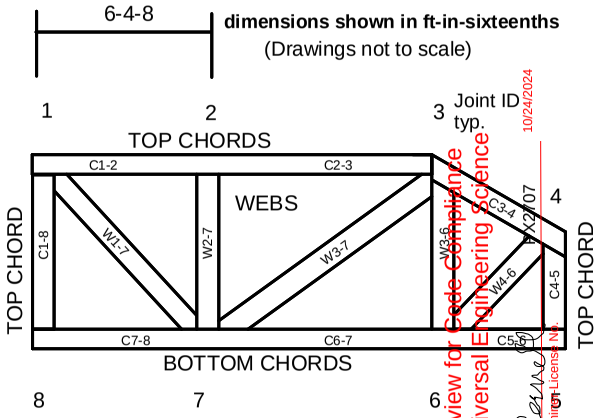


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System




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

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



# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

# Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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



MiTek®



# 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.