



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

RE: 1024-049 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Wentworth Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City 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: 40.0 psf Floor Load: N/A psf

This package includes 29 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 | T35433066 | A01 | 11/1/24 | 23 | T35433088 | D03 | 11/1/24 |
| 2 | T35433067 | A02 | 11/1/24 | 24 | T35433089 | E01 | 11/1/24 |
| 3 | T35433068 | A03 | 11/1/24 | 25 | T35433090 | E02 | 11/1/24 |
| 4 | T35433069 | A04 | 11/1/24 | 26 | T35433091 | J01 | 11/1/24 |
| 5 | T35433070 | A05 | 11/1/24 | 27 | T35433092 | J02 | 11/1/24 |
| 6 | T35433071 | A06 | 11/1/24 | 28 | T35433093 | J03 | 11/1/24 |
| 7 | T35433072 | A07 | 11/1/24 | 29 | T35433094 | J04 | 11/1/24 |
| 8 | T35433073 | A08 | 11/1/24 | | | | |
| 9 | T35433074 | A09 | 11/1/24 | | | | |
| 10 | T35433075 | A10 | 11/1/24 | | | | |
| 11 | T35433076 | A11 | 11/1/24 | | | | |
| 12 | T35433077 | A12 | 11/1/24 | | | | |
| 13 | T35433078 | A13 | 11/1/24 | | | | |
| 14 | T35433079 | B01 | 11/1/24 | | | | |
| 15 | T35433080 | B02 | 11/1/24 | | | | |
| 16 | T35433081 | B03 | 11/1/24 | | | | |
| 17 | T35433082 | C01 | 11/1/24 | | | | |
| 18 | T35433083 | C02 | 11/1/24 | | | | |
| 19 | T35433084 | C03 | 11/1/24 | | | | |
| 20 | T35433085 | CJ01 | 11/1/24 | | | | |
| 21 | T35433086 | D01 | 11/1/24 | | | | |
| 22 | T35433087 | D02 | 11/1/24 | | | | |

REVIEWED FOR CODE COMPLIANCE

These plans have been reviewed for compliance with the current building codes. Performance of this review shall not alleviate the applicant from full responsibility to comply with all applicable requirements.

Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

Any deviation from this plan is not permitted
without prior written authorization.



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Velez, Joaquin

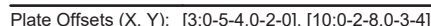
My license renewal date for the state of Florida is February 28, 2025.

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:

November 1, 2024

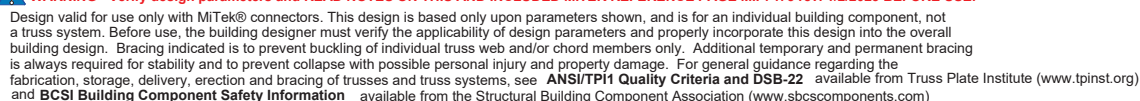
Page: 1

- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 9) Bearings are assumed to be: Joint 2 SP No.2 .
- 10) Refer to girder(s) for truss to truss connections.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
(0.148"x3.25") toe-nails per NDS guidelines.
- 12) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 223
lb down and 73 lb up at 7-0-0 on top chord, and 374 lb
down at 7-0-0 on bottom chord. The design/selection of
such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

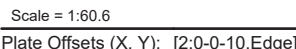
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-7=-60, 8-13=-20
Concentrated Loads (lb)
Vert: 3=-176 (B), 12=-374 (B), 11=-63 (B), 4=-125
(B), 16=-125 (B), 17=-125 (B), 18=-125 (B), 19=-125
(B), 20=-125 (B), 21=-125 (B), 22=-125 (B), 23=-125
(B), 24=-125 (B), 26=-125 (B), 27=-131 (B), 28=-63
(B), 29=-63 (B), 30=-63 (B), 31=-63 (B), 32=-63 (B),
33=-63 (B), 34=-63 (B), 35=-63 (B), 36=-63 (B),
37=-63 (B), 38=-63 (B)

November 1, 2024



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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:23 Page: 1
ID:Y7NFJMDfNI47TMfETHOvzUvRBAp-RfC?PsB70Hq3NSqPanL8w3uITXBGKWrcDoI7J4zJC?f



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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11, 5-9

REACTIONS (size) 2=0-5-8, 8= Mechanical
Max Horiz 2=122 (LC 11)
Max Uplift 2=-35 (LC 12)
Max Grav 2=1366 (LC 1), 8=1272 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2797/70, 3-4=-2432/94,
4-5=-2228/99, 5-7=-2034/91, 7-8=-1198/82
BOT CHORD 2-12=-200/2537, 9-12=-200/2759, 8-9=-40/82
WEBS 3-11=-365/50, 4-11=0/574, 5-11=-711/16,
5-10=0/306, 5-9=-811/40, 6-9=-474/110,
7-9=-63/2211, 3-12=0/139

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 2 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

These plans have been reviewed for compliance with the current building codes. Performance of this review shall not alleviate the applicant from full responsibility to comply with all applicable requirements.

Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

Any deviation from this plan is not permitted without prior written authorization.



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

November 1.2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

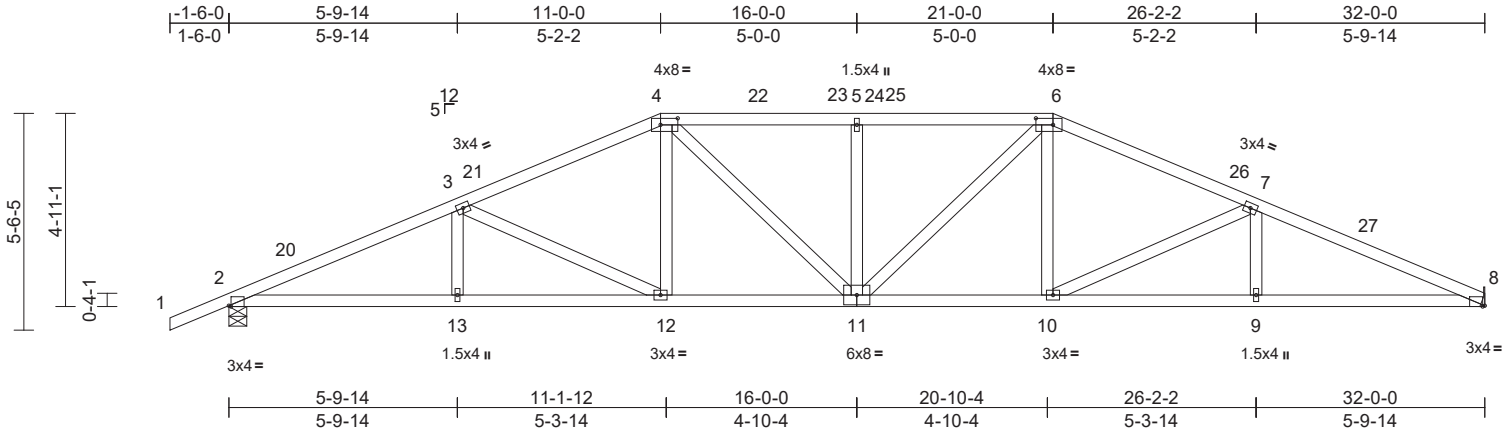
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A03 | Hip | 1 | 1 | T35433068 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:23
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Page: 1



Scale = 1:58.7

Plate Offsets (X, Y): [2:0-0-10,Edge], [4:0-5-4,0-2-0], [6:0-5-4,0-2-0], [8:0-0-10,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | -0.16 | 11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.33 | 10-11 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 162 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 8= Mechanical
Max Horiz 2=79 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=1372 (LC 1), 8=1278 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2785/112, 3-4=-2238/124,
4-5=-2238/141, 5-6=-2238/141,
6-7=-2243/125, 7-8=-2796/112

WEBS

2-13=-63/2521, 12-13=-63/2521,
10-12=-12/2021, 9-10=-61/2546,
8-9=-61/2546
3-13=0/222, 3-12=-571/54, 4-12=0/389,
6-11=-17/417, 6-10=0/391, 7-10=-594/59,
7-9=0/225, 5-11=-324/76, 4-11=-19/421

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-6,
Zone1 1-8-6 to 11-0-0, Zone2 11-0-0 to 15-6-5, Zone1
15-6-5 to 21-0-0, Zone2 21-0-0 to 25-6-5, Zone1 25-6-5
to 32-0-0 zone; cantilever left and right exposed ; 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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
2.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

These plans have been reviewed for compliance with the current building codes. Performance of this review shall not alleviate the applicant from full responsibility to comply with all applicable requirements.

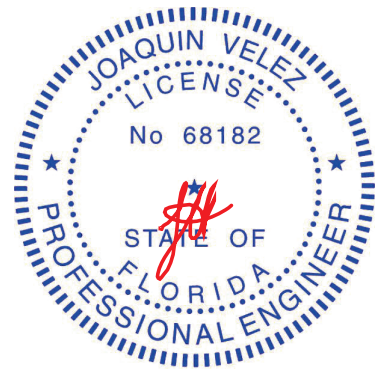
Scope of Review Performed
by: Timothy Hunt

02/02/2025 *Tim Hunt*

PX3903 • PEP690

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CT SOLUTIONS
OF FLORIDA, LLC
Inspections When You Need Them



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

November 1, 2024

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

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

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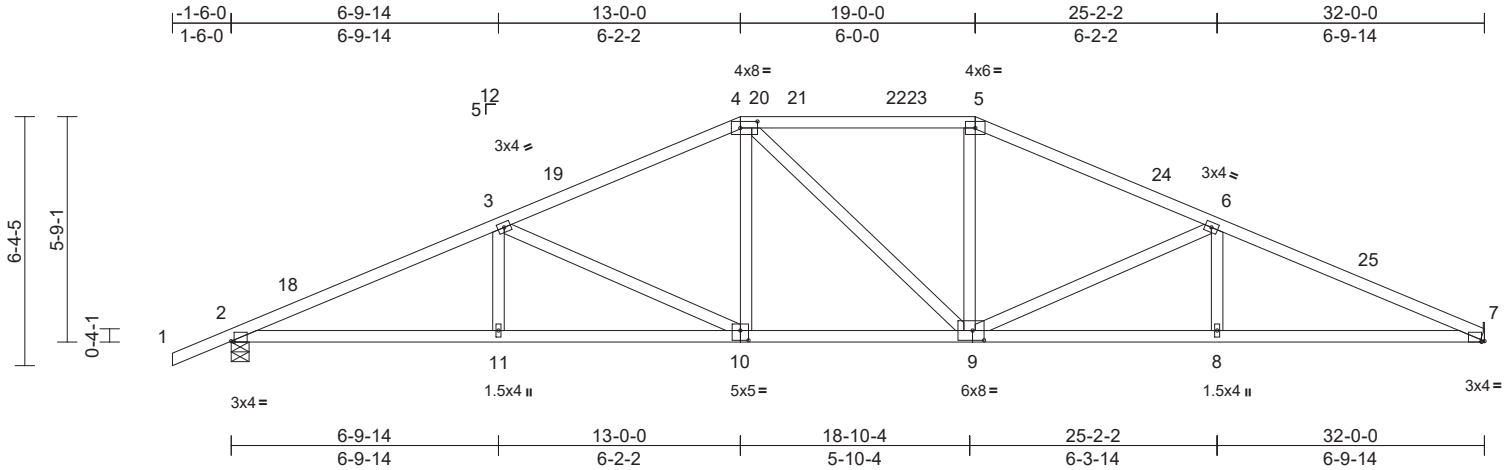
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A04 | Hip | 1 | 1 | T35433069 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:23
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Page: 1



Scale = 1:58.8

Plate Offsets (X, Y): [2:0-0-14,Edge], [4:0-5-4,0-2-0], [7:0-0-14,Edge], [9:0-3-8,0-3-0], [10:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.47 | Vert(LL) | -0.15 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.74 | Vert(CT) | -0.32 | 9-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.12 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | | |
| | | | | | | | | | | | Weight: 155 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 7= Mechanical
Max Horiz 2=92 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=1372 (LC 1), 7=1278 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2733/115, 3-4=-2066/132, 4-5=-1839/141, 5-6=-2065/130, 6-7=-2737/114
BOT CHORD 2-11=-59/2466, 8-11=-59/2486, 7-8=-56/2486
WEBS 3-11=0/267, 3-10=-697/60, 4-10=0/460, 4-9=-162/169, 5-9=0/461, 6-9=-720/64, 6-8=0/271

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-6, Zone1 1-8-6 to 13-0-0, Zone2 13-0-0 to 17-6-5, Zone1 17-6-5 to 19-0-0, Zone2 19-0-0 to 23-6-5, Zone1 23-6-5 to 32-0-0 zone; cantilever left and right exposed ; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

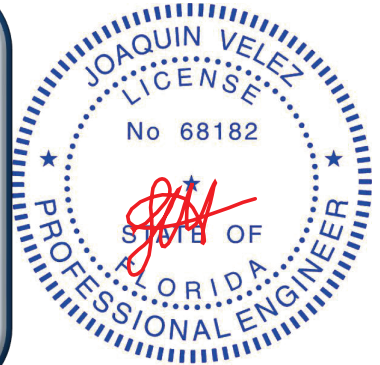
These plans have been reviewed for compliance with the current building codes. Performance of this review shall not alleviate the applicant from full responsibility to comply with all applicable requirements.

Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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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:

November 1,2024

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

MiTek®

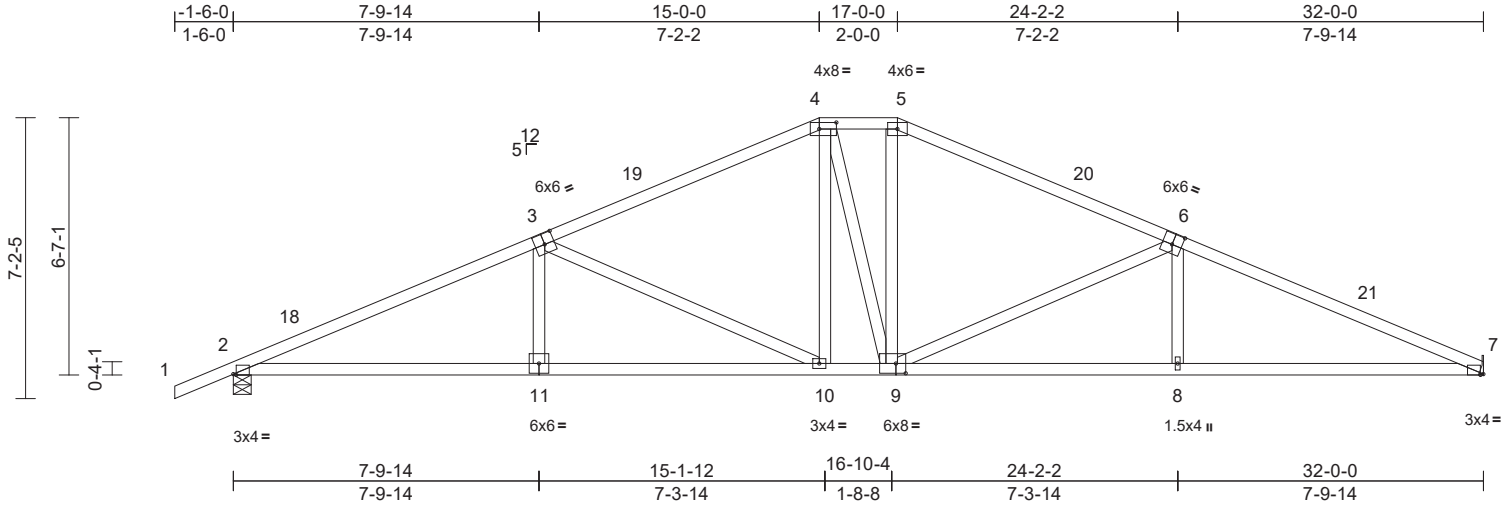
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A05 | Hip | 1 | 1 | T35433070 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
ID:c0nwSVpfrJz?mfl7rw9Q4fyRBAa-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:59

Plate Offsets (X, Y): [2:0-0-14,Edge], [3:0-3-0,0-3-4], [4:0-5-4,0-2-0], [6:0-3-0,0-3-4], [7:0-0-14,Edge], [9:0-3-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | -0.15 | 10 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.82 | Vert(CT) | -0.33 | 10-11 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.96 | Horz(CT) | 0.12 | 7 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 161 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 7= Mechanical
Max Horiz 2=105 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=1372 (LC 1), 7=1278 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-4=-2660/121, 4-5=-1641/133, 5-7=-2674/123
BOT CHORD 2-10=-38/2406, 8-10=-35/2416, 7-8=-32/2421
WEBS 3-11=0/326, 3-10=-853/69, 4-10=0/437, 4-9=-179/184, 5-9=0/442, 6-9=-862/73, 6-8=0/325

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-8-6, Zone1 1-8-6 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2 17-0-0 to 21-6-5, Zone1 21-6-5 to 32-0-0 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

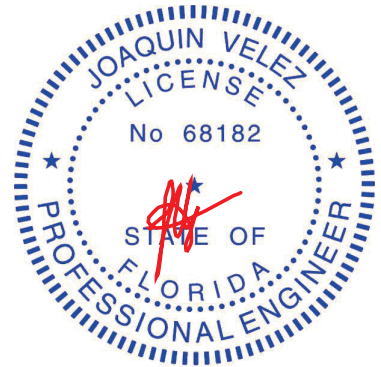
These plans have been reviewed for compliance with the current building codes. Performance of this review shall not alleviate the applicant from full responsibility to comply with all applicable requirements.

Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

Any deviation from this plan is not permitted
without prior written authorization.



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

November 1, 2024

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

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

MiTek®

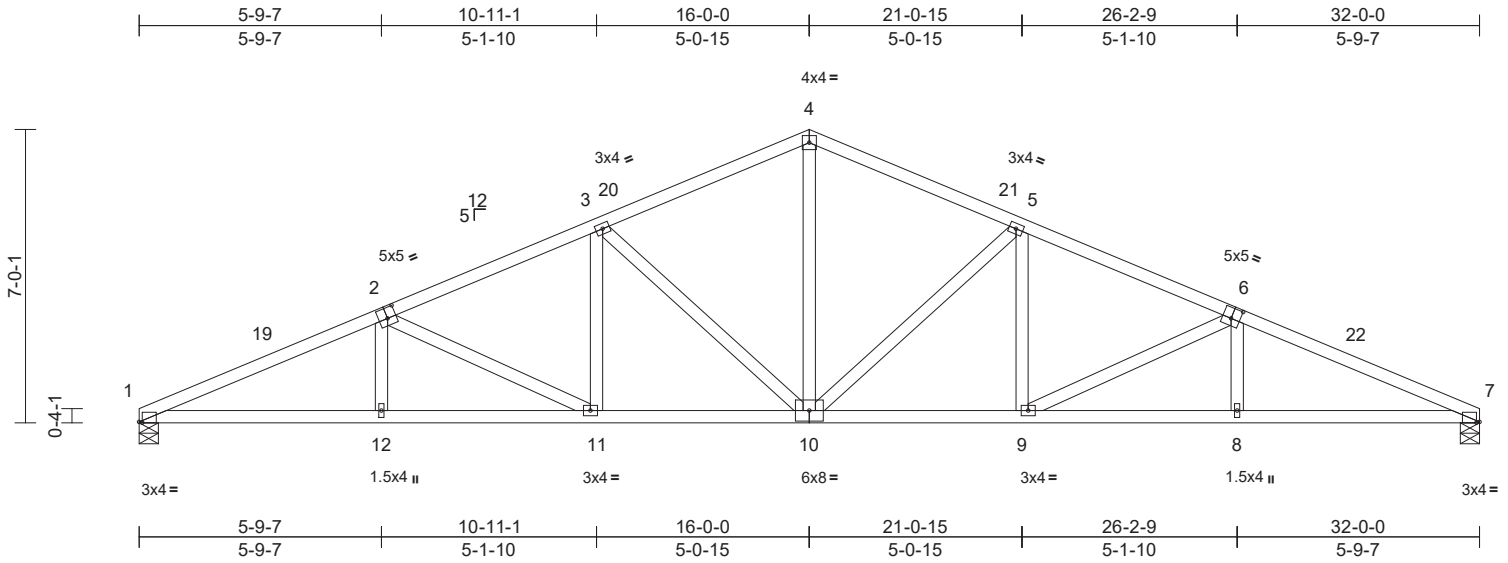
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | A06 | Common | 4 | 1 | T35433071 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
ID:FKVSzbyB0?UICVDQYRNEZByRBAO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55
Plate Offsets (X, Y): [1:0-0-14,Edge], [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [7:0-0-14,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | -0.15 | 10-11 | >999 | 240 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.32 | 10-11 | >999 | 180 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.12 | 7 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 163 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

REACTIONS

(size) 1=0-5-8, 7=0-5-8
Max Horiz 1=-104 (LC 10)
Max Grav 1=1280 (LC 1), 7=1280 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2797/143, 3-4=-1740/158,
4-5=-1740/158, 5-7=-2797/143
BOT CHORD 1-12=-73/2545, 11-12=-75/2540,
9-11=-30/2042, 8-9=-74/2540, 7-8=-72/2545
WEBS 4-10=-20/995, 3-10=-673/71, 2-12=0/222,
2-11=-561/69, 3-11=0/384, 5-10=-673/71,
5-9=0/384, 6-9=-561/69, 6-8=0/222

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-2-6,
Zone1 3-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1
20-6-5 to 32-0-0 zone; cantilever left and right exposed ;
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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2 .
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

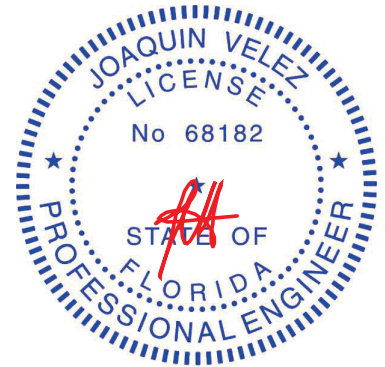
These plans have been reviewed for compliance with the
current building codes. Performance of this review shall
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Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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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:

November 1, 2024

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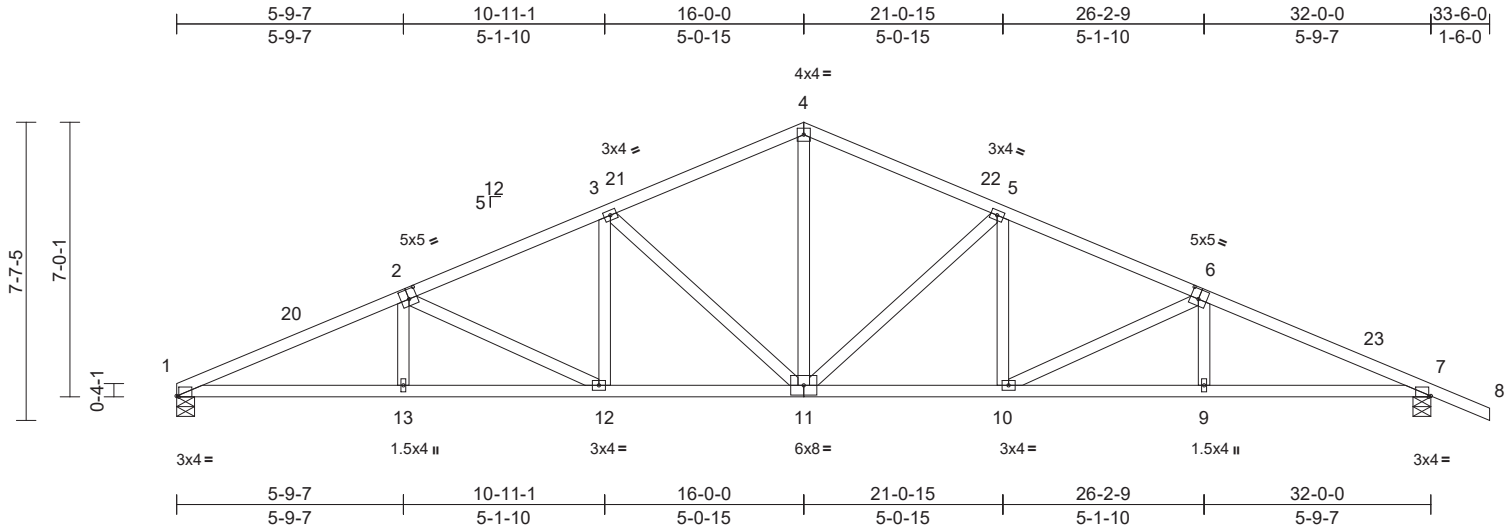
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | A07 | Common | 3 | 1 | T35433072 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:58.8

Plate Offsets (X, Y): [1:0-0-10,Edge], [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [7:0-0-10,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | -0.15 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.32 | 11-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.12 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 166 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 1=0-5-8, 7=0-5-8
Max Horiz 1=-112 (LC 10)
Max Uplift 7=-36 (LC 12)
Max Grav 1=1278 (LC 1), 7=1372 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2792/142, 3-4=-1734/157,
4-5=-1734/148, 5-7=-2780/135, 7-8=0/35
BOT CHORD 1-13=-60/2540, 12-13=-62/2535,
10-12=-16/2037, 9-10=-42/2511,
7-9=-40/2515
WEBS 4-11=-19/991, 3-11=-673/71, 2-13=0/222,
2-12=-561/69, 3-12=0/384, 5-11=-668/70,
5-10=0/381, 6-10=-538/30, 6-9=0/219

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-2-6,
Zone1 3-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1
20-6-5 to 33-6-0 zone; cantilever left and right exposed ;
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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
7.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

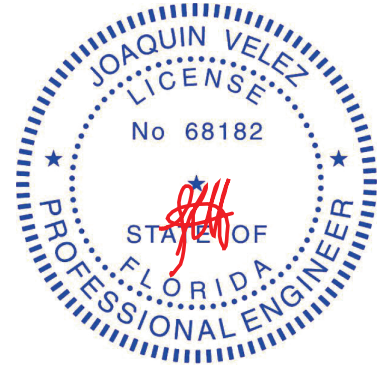
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Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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Date:

November 1,2024

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MiTek®

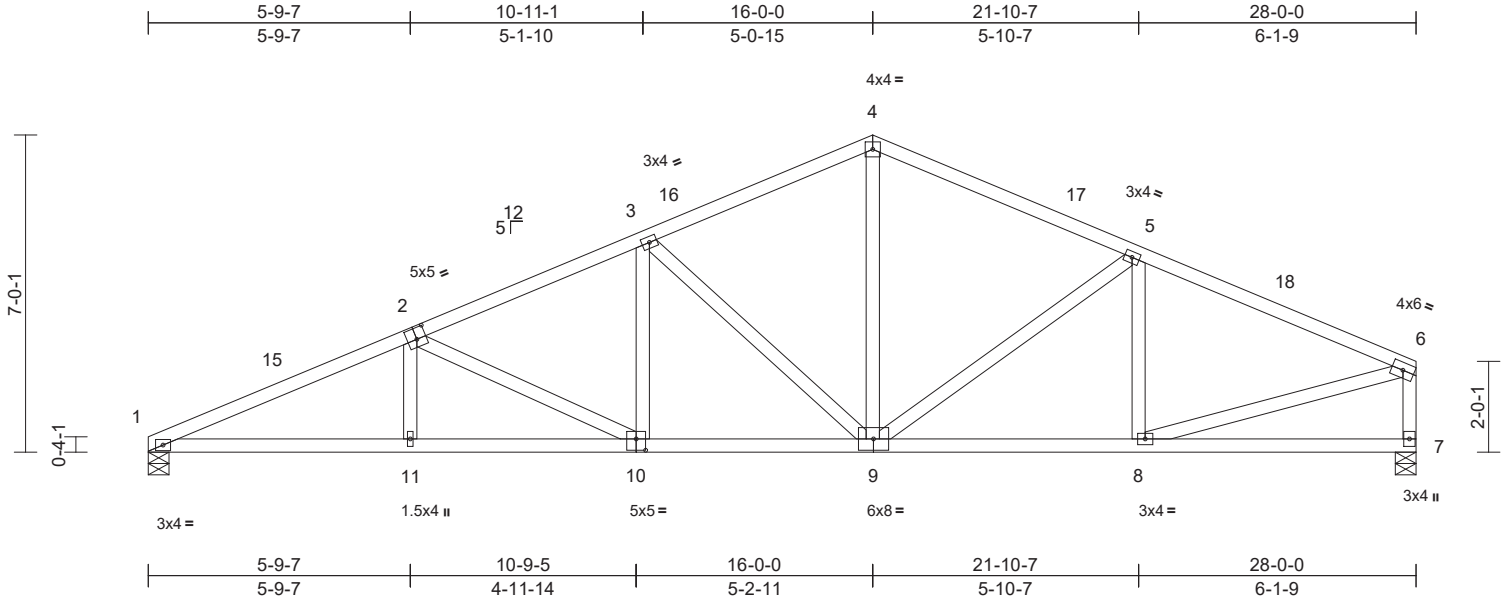
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | A08 | Common | 3 | 1 | T35433073 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
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Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | -0.09 | 10 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.61 | Vert(CT) | -0.19 | 10-11 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.06 | 7 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 151 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

REACTIONS (size) 1=0-5-8, 7=0-5-8
Max Horiz 1=126 (LC 11)
Max Grav 1=1114 (LC 1), 7=1114 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2377/125, 3-4=-1311/142, 4-5=-1327/138, 5-6=-1459/100, 6-7=-1053/111
BOT CHORD 1-11=-118/2158, 8-11=-120/2153, 7-8=-35/92
WEBS 4-9=-5/652, 6-8=-37/1246, 3-9=-670/70, 2-11=0/221, 2-10=-559/68, 3-10=0/384, 5-9=-254/56, 5-8=-236/88

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 16-0-0, Zone2 16-0-0 to 20-2-15, Zone1 20-2-15 to 27-10-4 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

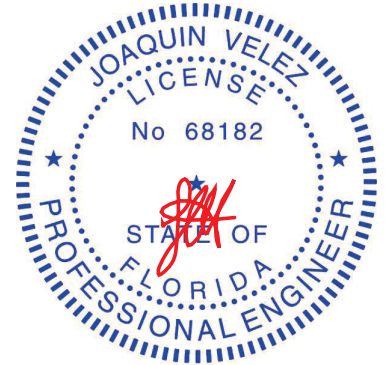
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by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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Date:

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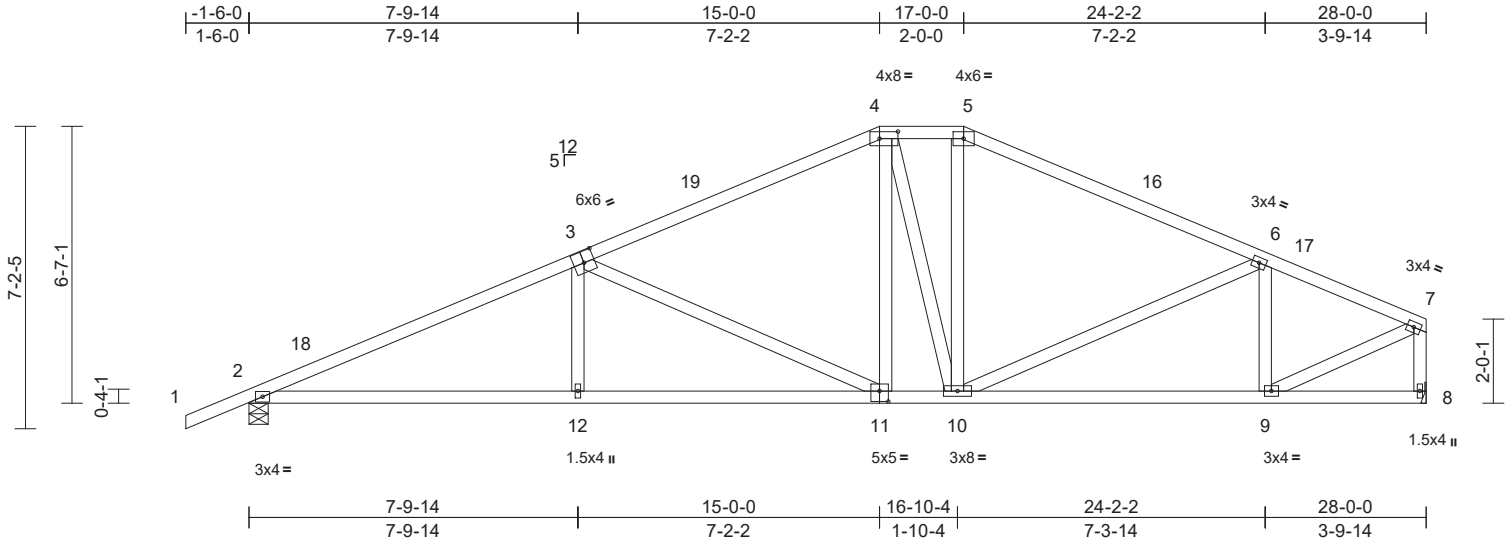
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A09 | Hip | 1 | 1 | T35433074 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
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Page: 1



Scale = 1:54.8

Plate Offsets (X, Y): [3:0-3-0,0-3-4], [4:0-5-4,0-2-0], [11:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | -0.11 | 12-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.72 | Vert(CT) | -0.25 | 12-15 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.07 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 156 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-5-8, 8= Mechanical

Max Horiz 2=128 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=1207 (LC 1), 8=1112 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-1207/122, 5-6=-1390/104,
6-7=-1271/70, 7-8=-1088/52, 1-2=0/35,
2-4=-2237/108
BOT CHORD 2-12=-98/2017, 10-12=-101/2012,
9-10=-61/1162, 8-9=-21/30
WEBS 3-12=0/327, 3-11=-850/68, 4-11=0/421,
4-10=-269/75, 5-10=0/305, 6-10=-63/165,
6-9=-430/99, 7-9=-44/1274

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0,
Zone1 1-6-0 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2
17-0-0 to 21-2-15, Zone1 21-2-15 to 27-10-4 zone;
cantilever left and right exposed ; 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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
2.
- This truss design requires that a minimum of 7/16"
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chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

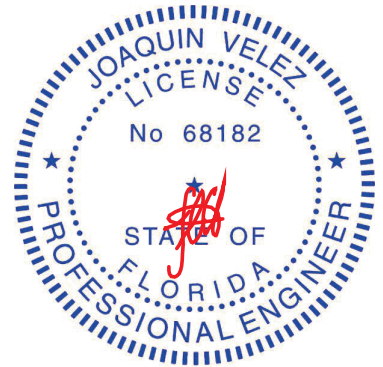
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current building codes. Performance of this review shall
not alleviate the applicant from full responsibility to
comply with all applicable requirements.

Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

Any deviation from this plan is not permitted
without prior written authorization.



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

November 1,2024

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

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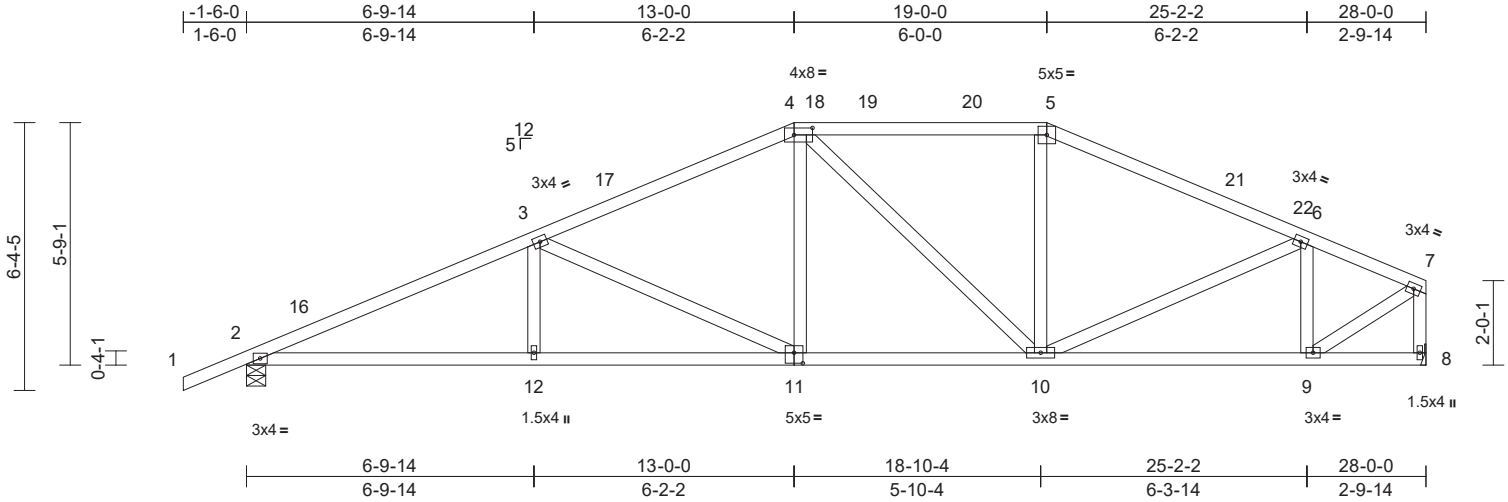
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A10 | Hip | 1 | 1 | T35433075 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
ID:cqMC9xQer_PmOViwL8aOePyRB9n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.7

Plate Offsets (X, Y): [4:0-5-4,0-2-0], [11:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.40 | Vert(LL) | -0.09 | 12-15 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.63 | Vert(CT) | -0.19 | 12-15 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.58 | Horz(CT) | 0.07 | 8 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 149 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-5-8, 8= Mechanical
Max Horiz 2=116 (LC 11)
Max Uplift 2=-36 (LC 12)
Max Grav 2=1207 (LC 1), 8=1112 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-2298/93, 3-4=-1639/111,
4-5=-1273/121, 5-6=-1446/107,
6-7=-1094/70, 7-8=-1096/52

BOT CHORD 2-12=-118/2078, 10-12=-118/2078,
9-10=-63/1000, 8-9=-21/30

WEBS 3-12=0/271, 3-11=-704/58, 4-11=0/456,
4-10=-326/20, 5-10=0/275, 6-10=0/364,
6-9=-555/95, 7-9=-51/1187

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1
17-2-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1
23-2-15 to 27-10-4 zone; cantilever left and right
exposed ; 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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
2.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

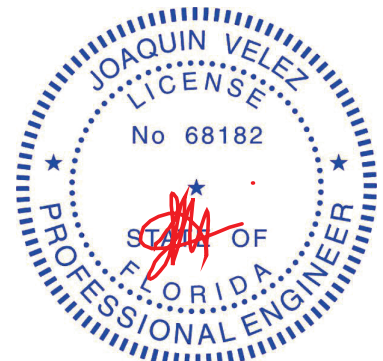
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current building codes. Performance of this review shall
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Scope of Review Performed
by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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without prior written authorization.



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

November 1, 2024

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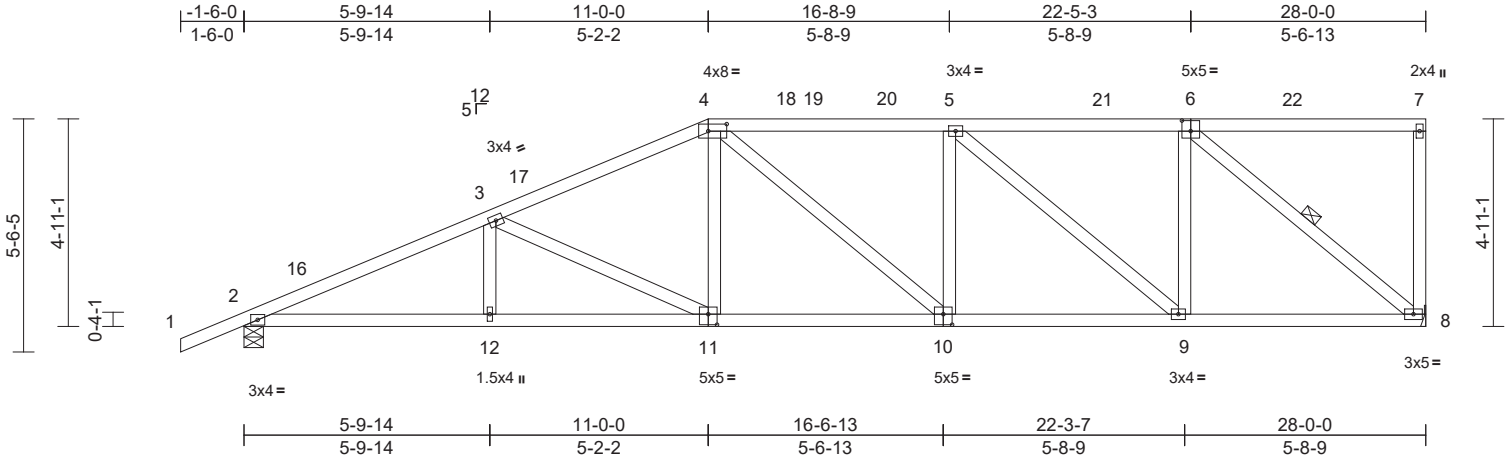
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | A11 | Half Hip | 1 | 1 | T35433076 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:24
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Page: 1



Scale = 1:54.6

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.31 | Vert(LL) | -0.09 | 11 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.20 | 10-11 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | 0.08 | 8 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 155 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8

REACTIONS

(size) 2=0-5-8, 8= Mechanical
Max Horiz 2=147 (LC 11)
Max Uplift 2=-35 (LC 12)
Max Grav 2=1207 (LC 1), 8=1112 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2364/66, 3-4=-1825/95, 4-5=-1650/106, 5-7=-1112/91, 7-8=-143/36
BOT CHORD 2-12=-206/2133, 9-12=-206/2133, 8-9=-94/1094
WEBS 3-12=0/218, 3-11=-562/53, 4-11=0/398, 6-8=-1410/60, 5-10=0/212, 4-10=-15/175, 5-9=-696/47, 6-9=0/570

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 27-10-4 zone; cantilever left and right exposed ; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

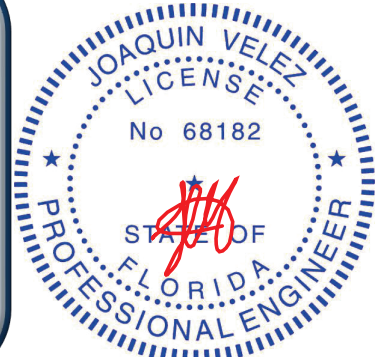
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Scope of Review Performed by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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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:

November 1,2024

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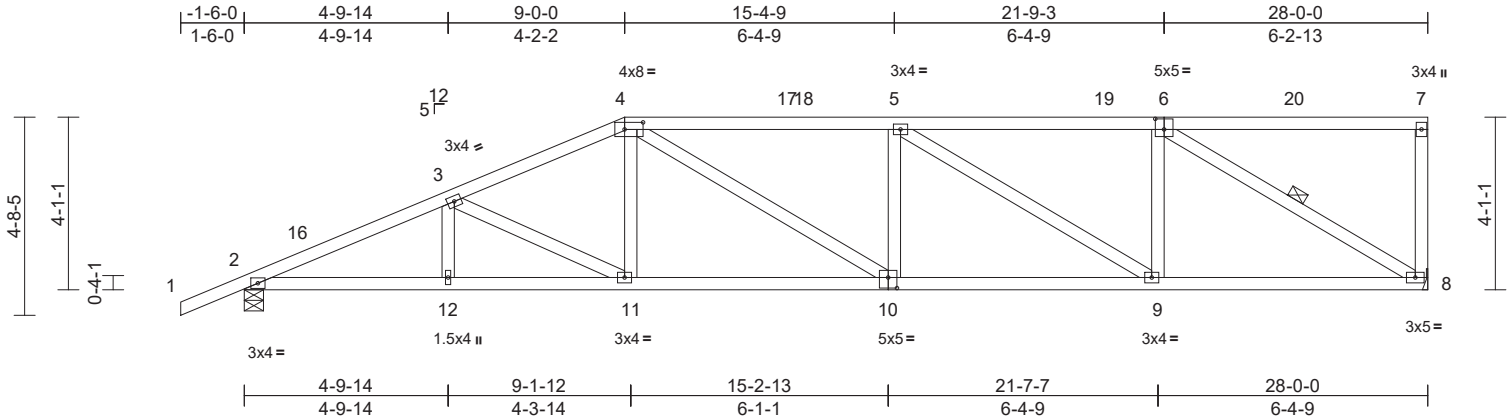
| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | A12 | Half Hip | 1 | 1 | T35433077 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:25

Page: 1

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Scale = 1:54.5

Plate Offsets (X, Y): [4:0-5-4,0-2-0], [6:0-2-8,0-3-0], [10:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.38 | Vert(LL) | -0.11 | 10-11 | >999 | 240 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.25 | 10-11 | >999 | 180 | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.64 | Horz(CT) | 0.09 | 8 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 148 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8

REACTIONS

(size) 2=0-5-8, 8= Mechanical
Max Horiz 2=122 (LC 11)
Max Uplift 2=-35 (LC 12)
Max Grav 2=1207 (LC 1), 8=1112 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2403/60, 3-4=-2006/88, 4-5=-2079/100, 5-7=-1479/82, 7-8=-164/43
BOT CHORD 2-12=-187/2176, 11-12=-187/2176, 9-11=-144/2081, 8-9=-89/1460
WEBS 3-11=-405/45, 4-11=0/351, 6-8=-1678/57, 5-10=-93/138, 4-10=-12/419, 5-9=-704/42, 6-9=0/537, 3-12=0/161

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 27-10-4 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

REVIEWED FOR CODE COMPLIANCE

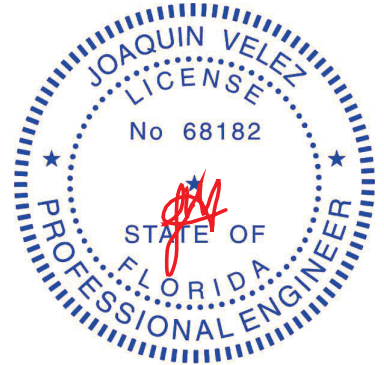
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by: Timothy Hunt

02/02/2025

PX3903 • PEP690

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 1,2024

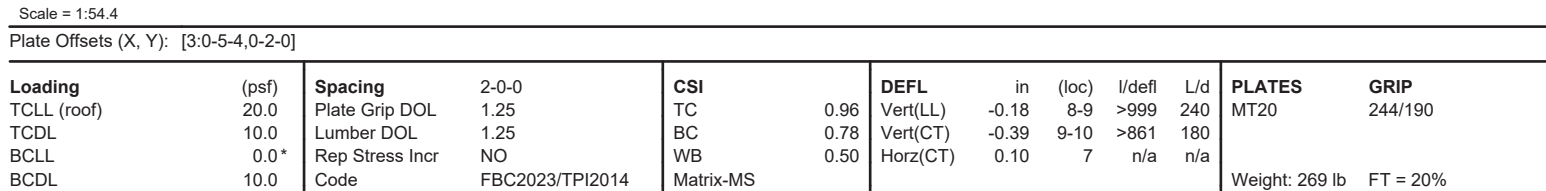
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MiTek®

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

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:25 Page: 1
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NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=28ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
 - 5) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
 - 9) Bearings are assumed to be: Joint 2 SP No.2 .
 - 10) Refer to girder(s) for truss to truss connections.
 - 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d
(0.148"x3.25") toe-nails per NDS guidelines.
 - 12) Hanger(s) or other connection device(s) shall be
provided sufficient to support concentrated load(s) 223
lb down and 73 lb up at 7-0-0 on top chord, and 374 lb
down at 7-0-0 on bottom chord. The design/selection of
such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 7-11=-20
Concentrated Loads (lb)
Vert: 3=-176 (F), 10=-374 (F), 5=-125 (F), 8=-63 (F),
14=-125 (F), 15=-125 (F), 16=-125 (F), 18=-125 (F),
19=-125 (F), 20=-125 (F), 22=-125 (F), 23=-125 (F),
24=-131 (F), 25=-63 (F), 26=-63 (F), 27=-63 (F),
28=-63 (F), 29=-63 (F), 30=-63 (F), 31=-63 (F),
32=-63 (F), 33=-65 (F)



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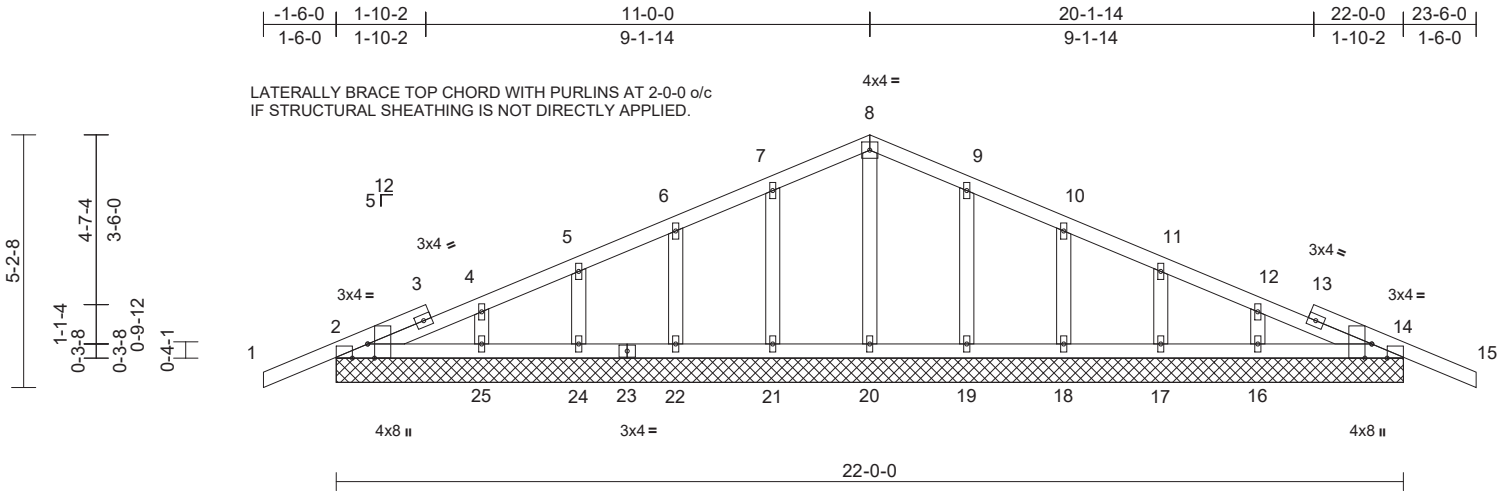
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Chesterfield, MO 63017
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| | | | | | |
|--------------------------|-------|------------------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | B01 | Common Supported Gable | 1 | 1 | T35433079 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:25
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Page: 1



Scale = 1:47.5

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [14:0-3-8,Edge], [14:0-3-13,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | n/a | - | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.04 | Vert(CT) | n/a | - | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 29 | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 107 lb FT = 20% | | | | | | | | | | | |

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)
2=22-0-0, 14=22-0-0, 16=22-0-0,
17=22-0-0, 18=22-0-0, 19=22-0-0,
20=22-0-0, 21=22-0-0, 22=22-0-0,
24=22-0-0, 25=22-0-0, 26=22-0-0,
29=22-0-0
Max Horiz 2=69 (LC 11), 26=69 (LC 11)
Max Uplift 2=47 (LC 12), 14=47 (LC 12),
17=14 (LC 12), 18=7 (LC 12),
19=7 (LC 12), 21=7 (LC 12),
22=7 (LC 12), 24=14 (LC 12),
26=47 (LC 12), 29=47 (LC 12)
Max Grav 2=220 (LC 1), 14=220 (LC 1),
16=201 (LC 1), 17=149 (LC 24),
18=162 (LC 1), 19=167 (LC 24),
20=149 (LC 1), 21=167 (LC 23),
22=162 (LC 1), 24=149 (LC 23),
25=201 (LC 1), 26=220 (LC 1),
29=220 (LC 1)

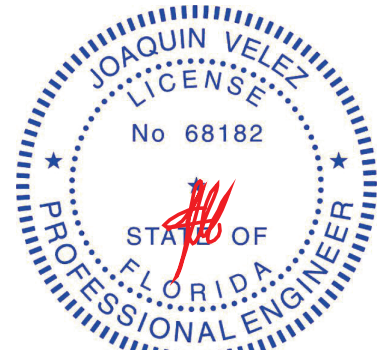
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-4=43/54, 4-5=53/45,
5-6=45/59, 6-7=41/95, 7-8=56/131,
8-9=56/131, 9-10=41/95, 10-11=28/59,
11-12=30/22, 12-14=33/30, 14-15=0/35
BOT CHORD 2-25=26/72, 24-25=26/72, 22-24=26/72,
21-22=26/72, 20-21=26/72, 19-20=26/72,
18-19=26/72, 17-18=26/72, 16-17=26/72,
14-16=26/72

WEBS
8-20=109/0, 7-21=127/69, 6-22=120/70,
5-24=116/73, 4-25=139/64, 9-19=127/69,
10-18=120/70, 11-17=116/73,
12-16=139/64

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 2, 47 lb uplift at joint 14, 7 lb uplift at joint 21, 7 lb uplift at joint 22, 14 lb uplift at joint 24, 7 lb uplift at joint 19, 7 lb uplift at joint 18, 14 lb uplift at joint 17, 47 lb uplift at joint 2 and 47 lb uplift at joint 14.

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

LOAD CASE(S) Standard



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

November 1,2024

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

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

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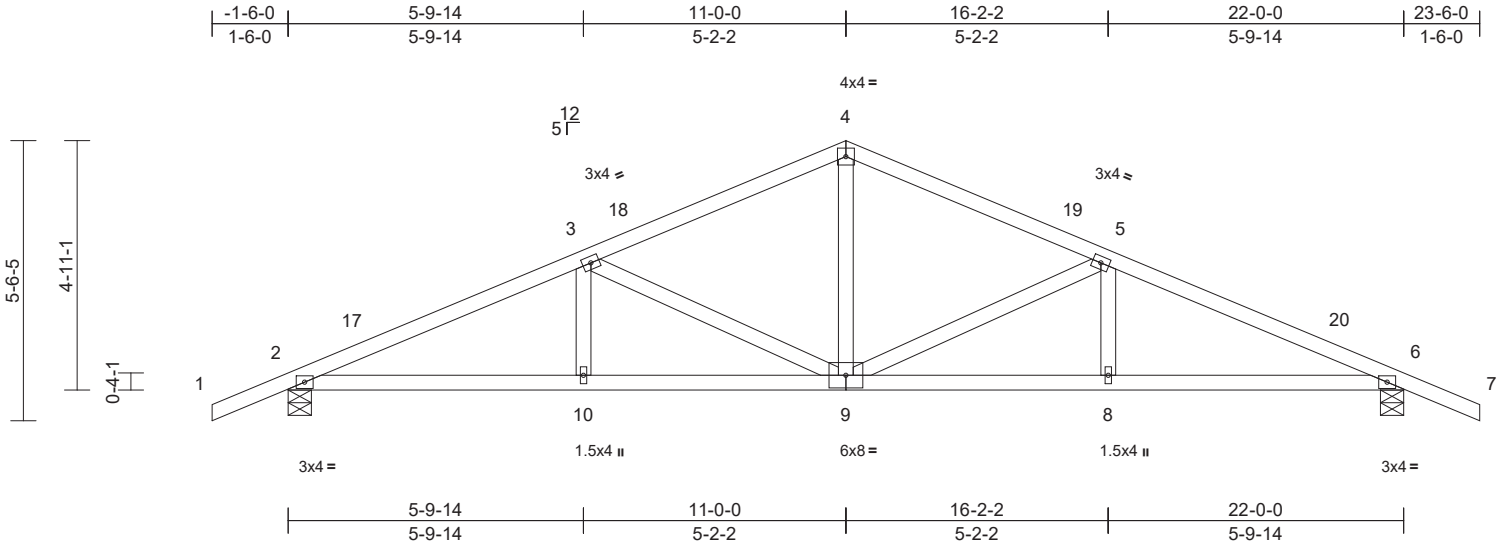
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | B02 | Common | 7 | 1 | T35433080 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:25
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Page: 1



Scale = 1:45.4

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | -0.07 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.47 | Vert(CT) | -0.14 | 9-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.05 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 102 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size)

2=0-5-8, 6=0-5-8
Max Horiz 2=-74 (LC 10)
Max Uplift 2=-36 (LC 12), 6=-36 (LC 12)
Max Grav 2=970 (LC 1), 6=970 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

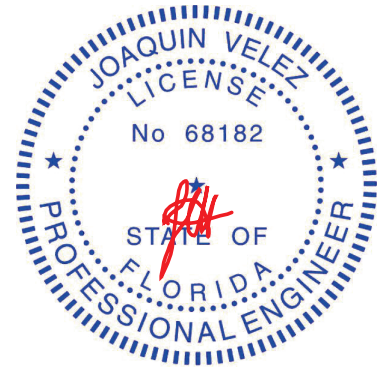
TOP CHORD 1-2=0/35, 2-3=-1766/111, 3-4=-1215/119,
4-5=-1215/119, 5-6=-1766/111, 6-7=0/35
BOT CHORD 2-10=-31/1583, 8-10=-45/1583, 6-8=-45/1583
WEBS 3-10=0/225, 3-9=-592/74, 4-9=0/596,
5-9=-592/74, 5-8=0/225

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1
15-2-15 to 23-6-0 zone; cantilever left and right
exposed; 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
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.

- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 36 lb uplift at joint
2 and 36 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

November 1, 2024

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

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

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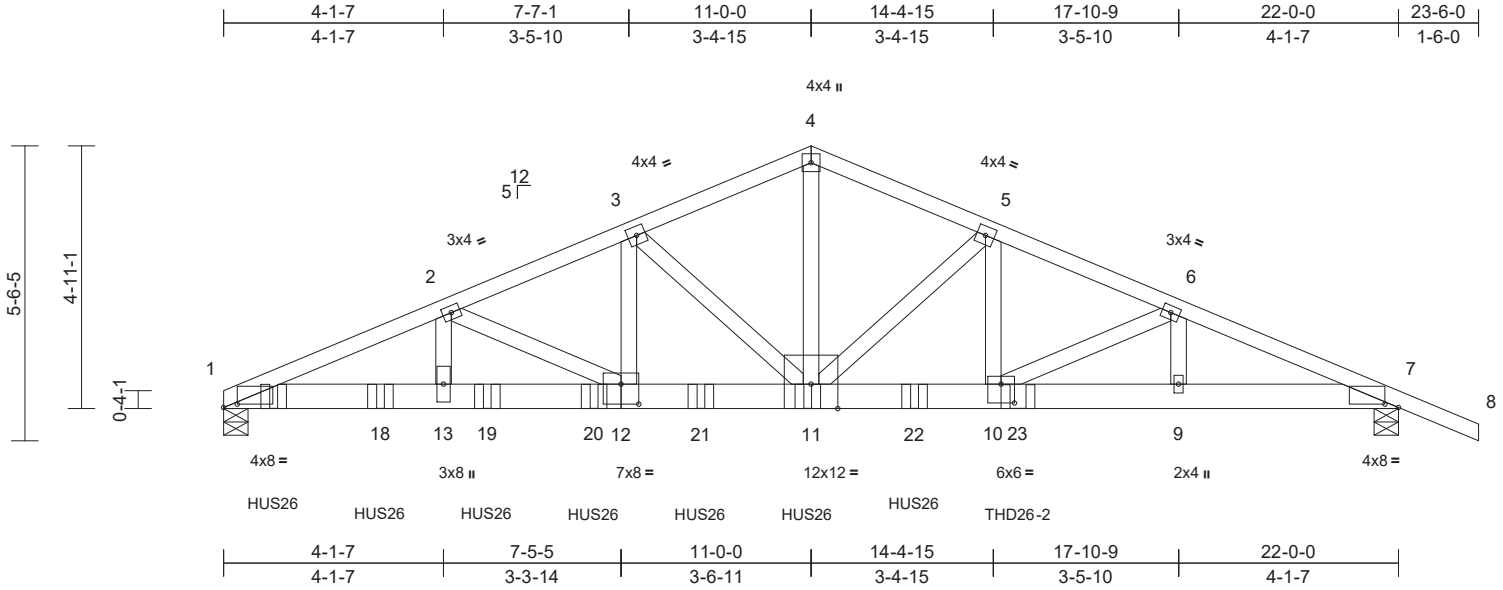
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|---------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | B03 | Common Girder | 1 | 3 | T35433081 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



| | | | | | | | | | |
|--|-------|-----------------|-----------------|------------|----------------|-------------|-------------|--------|-----|
| Scale = 1:43.1 | | | | | | | | | |
| Plate Offsets (X, Y): [1:0-3-1,0-0-12], [7:0-3-1,0-0-12], [10:0-3-0,0-4-4], [12:0-4-0,0-4-8] | | | | | | | | | |
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in (loc) | l/defl | L/d |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.69 | Vert(LL) | -0.19 11-12 | >999 | 240 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.37 11-12 | >708 | 180 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.58 | Horz(CT) | 0.10 7 | n/a | n/a |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | |
| | | | | | PLATES | | GRIP | | |
| | | | | | MT20 | | 244/190 | | |
| | | | | | Weight: 392 lb | | FT = 20% | | |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except* 12-7:2x6 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-5-8, 7=0-5-8
Max Horiz 1=-73 (LC 6)
Max Grav 1=7807 (LC 1), 7=5653 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-16975/0, 2-3=-13756/0, 3-4=-10431/0, 4-5=-10431/0, 5-6=-13612/0, 6-7=-14046/0, 7-8=0/35
BOT CHORD 1-13=0/15599, 11-13=0/15599, 10-11=0/12545, 9-10=0/12936, 7-9=0/12936
WEBS 2-13=0/2428, 2-12=-3279/0, 3-12=0/3726, 3-11=-3913/0, 4-11=0/7744, 5-11=-3976/0, 5-10=0/3694, 6-10=-438/0, 6-9=0/241

NOTES

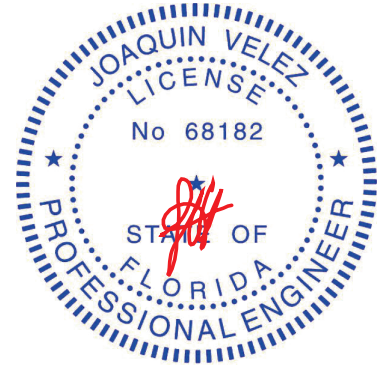
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-11 2x4 - 1 row at 0-6-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 1 SP 2400F 2.0E, Joint 7 SP No.2.
- Use MiTek HUS26 (With 14-16d nails into Girder & 4-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 10-11-4 to connect truss(es) to back face of bottom chord.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 12-11-4 from the left end to connect truss(es) to back face of bottom chord.
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 14-10-8 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-8=-60, 1-7=-20
Concentrated Loads (lb)

Vert: 11=-1258 (B), 15=-1261 (B), 18=-1260 (B), 19=-1260 (B), 20=-1258 (B), 21=-1258 (B), 22=-1252 (B), 23=-2804 (B)



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

November 1,2024

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

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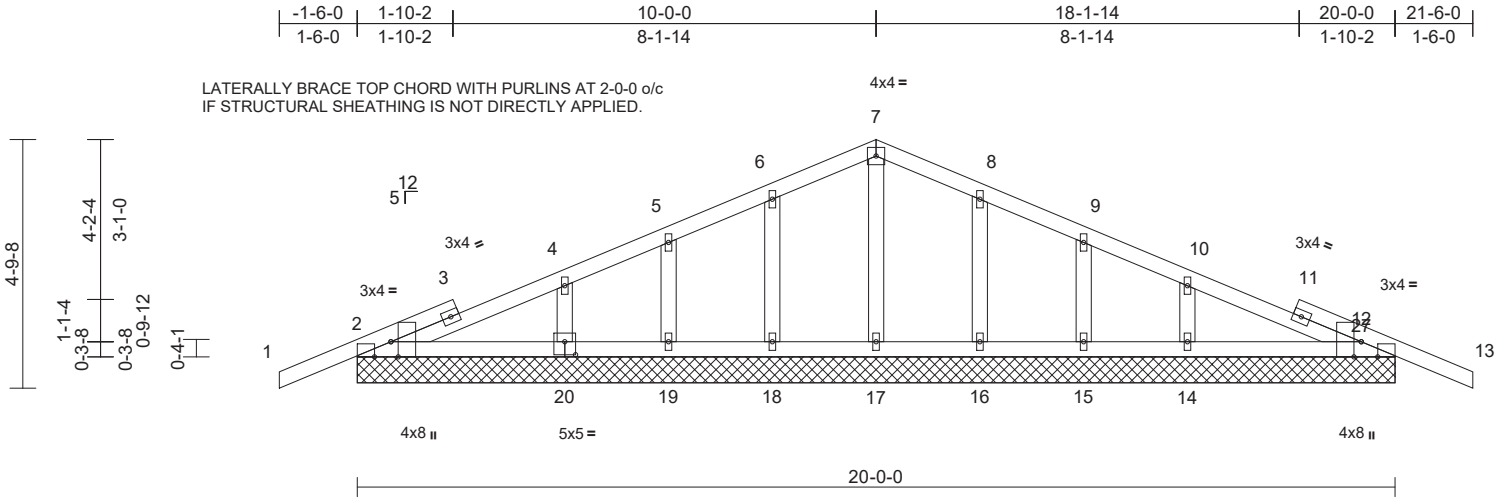
| | | | | | |
|--------------------------|-------|------------------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | C01 | Common Supported Gable | 1 | 1 | T35433082 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:26

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Scale = 1:44.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [12:0-3-8,Edge], [12:0-3-13,Edge], [20:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.09 | Vert(CT) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 12 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 94 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=20-0-0, 12=20-0-0, 14=20-0-0,
15=20-0-0, 16=20-0-0, 17=20-0-0,
18=20-0-0, 19=20-0-0, 20=20-0-0,
21=20-0-0, 24=20-0-0
Max Horiz 2=-65 (LC 10), 21=-65 (LC 10)
Max Uplift 2=-57 (LC 12), 12=-65 (LC 12),
14=-40 (LC 12), 15=-27 (LC 12),
16=-31 (LC 12), 18=-30 (LC 12),
19=-28 (LC 12), 20=-37 (LC 12),
21=-57 (LC 12), 24=-65 (LC 12)
Max Grav 2=237 (LC 23), 12=223 (LC 24),
14=295 (LC 18), 15=114 (LC 18),
16=186 (LC 18), 17=175 (LC 1),
18=186 (LC 17), 19=114 (LC 17),
20=295 (LC 17), 21=237 (LC 23),
24=223 (LC 24)

FORCES

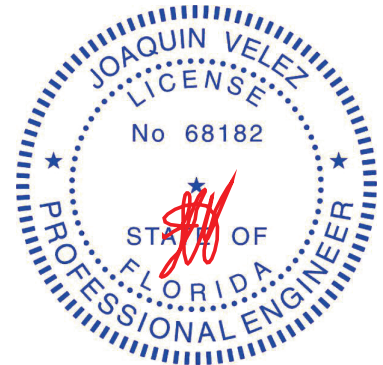
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/35, 2-4=-45/105, 4-5=-20/67,
5-6=-15/78, 6-7=-32/124, 7-8=-32/124,
8-9=-10/78, 9-10=-1/53, 10-12=-80/127,
12-13=0/42
BOT CHORD 2-19=-60/95, 18-19=-60/95, 17-18=-60/95,
16-17=-60/95, 15-16=-60/95, 14-15=-60/95,
12-14=-60/160
WEBS 7-17=-138/0, 6-18=-140/94, 5-19=-98/84,
4-20=-199/123, 8-16=-139/95, 9-15=-98/83,
10-14=-200/122

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=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Partially
Enclosed; MWFRS (directional) and C-C Zone3 zone;
cantilever left and right exposed ; 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 1.5x4 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 57 lb uplift at joint
2, 65 lb uplift at joint 12, 30 lb uplift at joint 18, 28 lb uplift
at joint 19, 37 lb uplift at joint 20, 31 lb uplift at joint 16,
27 lb uplift at joint 15, 40 lb uplift at joint 14, 57 lb uplift at
joint 2 and 65 lb uplift at joint 12.
- 12) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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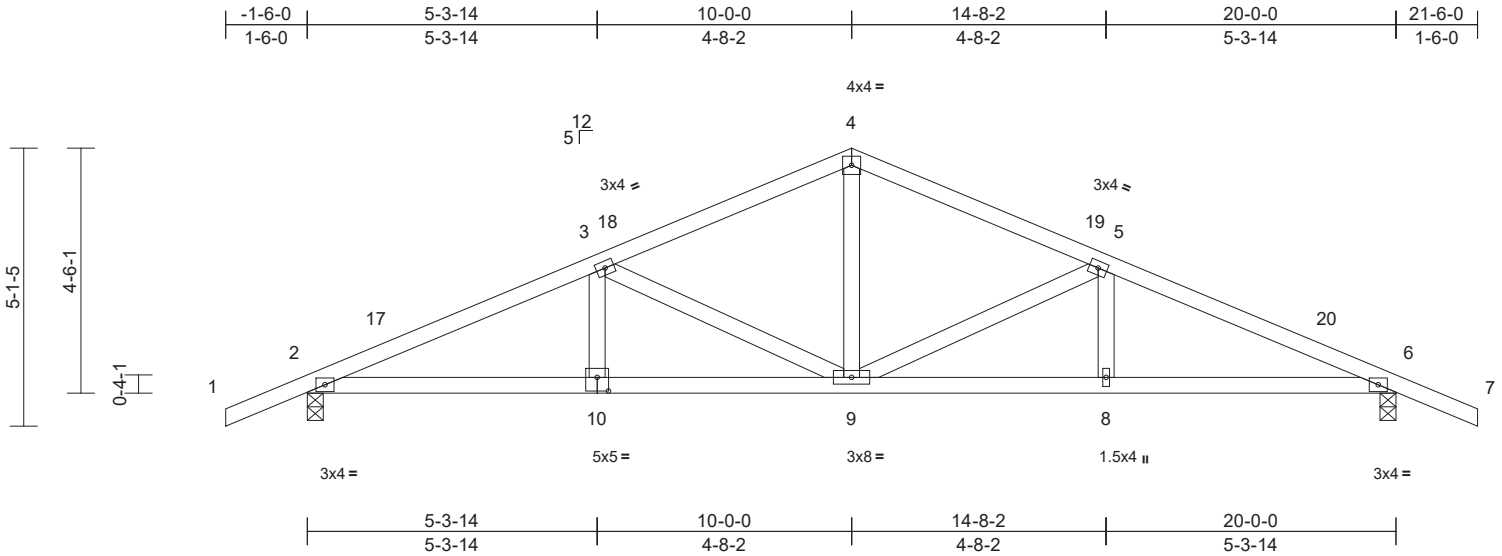
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| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | C02 | Common | 4 | 1 | T35433083 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:42.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.23 | Vert(LL) | -0.05 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.41 | Vert(CT) | -0.11 | 8-9 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 93 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-68 (LC 10)
Max Uplift 2=-129 (LC 12), 6=-129 (LC 12)
Max Grav 2=890 (LC 1), 6=890 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-1589/307, 3-4=-1100/256,
4-5=-1100/256, 5-6=-1589/307, 6-7=0/35
BOT CHORD 2-9=-202/1424, 8-9=-217/1424,
6-8=-217/1424
WEBS 3-10=0/202, 3-9=-542/151, 4-9=-60/538,
5-9=-543/150, 5-8=0/202

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 21-6-0 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 129 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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

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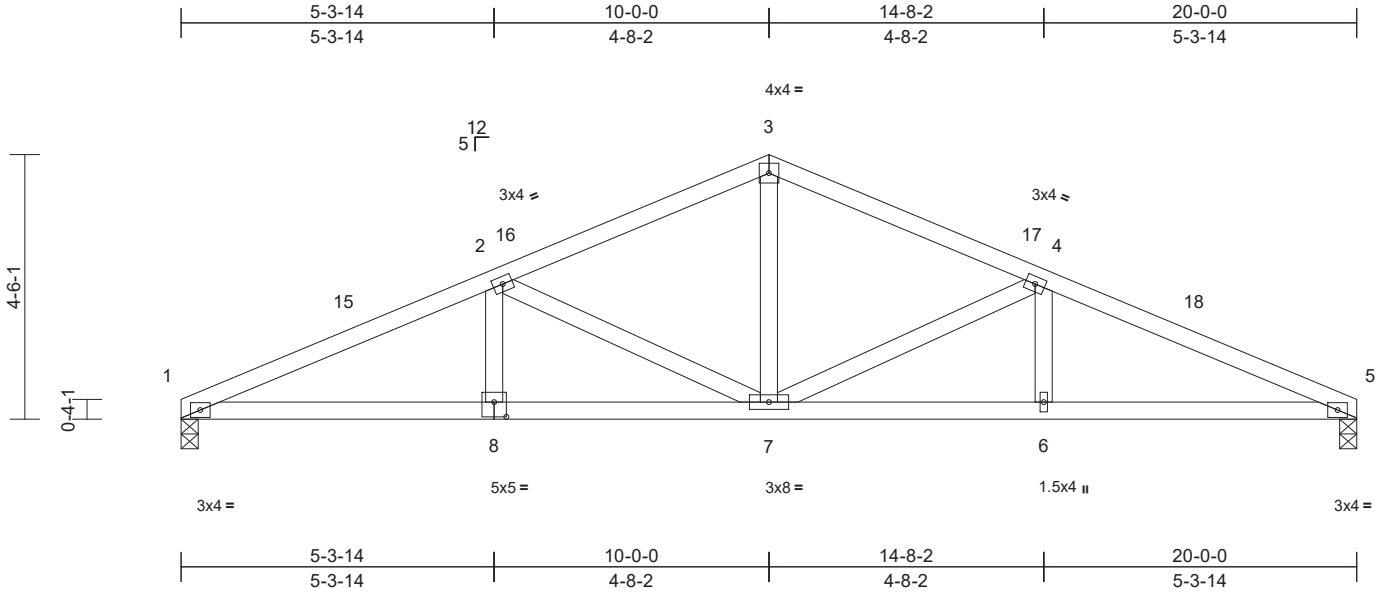
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | C03 | Common | 1 | 1 | T35433084 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:39.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.25 | Vert(LL) | -0.06 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.12 | 7-8 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.26 | Horz(CT) | 0.04 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 88 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 1=0-3-8, 5=0-3-8
Max Horiz 1=59 (LC 11)
Max Uplift 1=-92 (LC 12), 5=-92 (LC 12)
Max Grav 1=800 (LC 1), 5=800 (LC 1)

FORCES

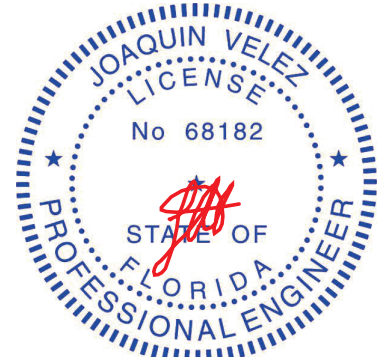
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1616/336, 2-3=-1117/272,
3-4=-1117/272, 4-5=-1616/336
BOT CHORD 1-7=-249/1462, 6-7=-251/1462,
5-6=-251/1462
WEBS 2-8=0/206, 2-7=-564/158, 3-7=-76/555,
4-7=-565/158, 4-6=0/206

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 20-0-0 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 1 and 92 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 1, 2024

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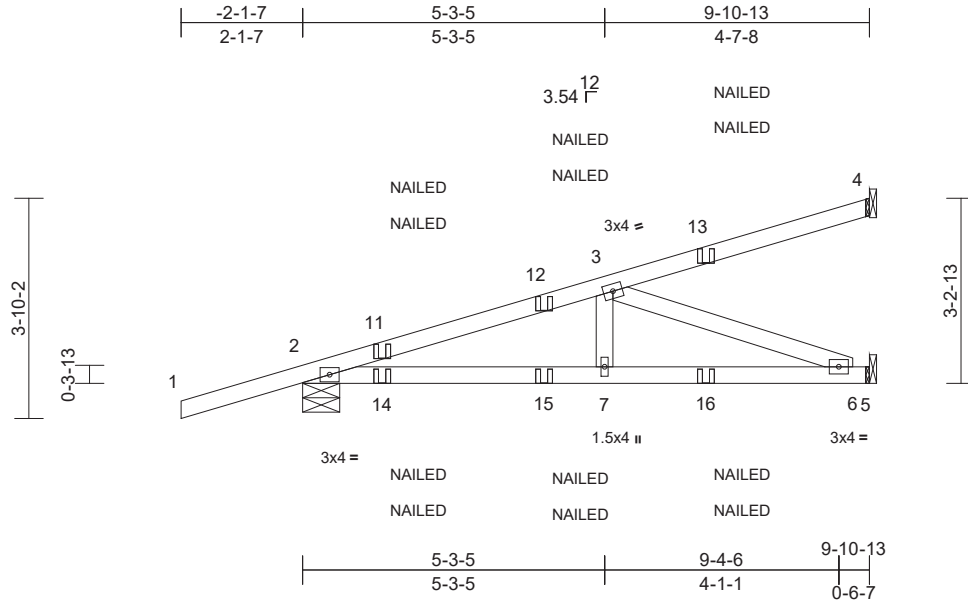
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| | | | | | |
|----------|-------|---------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | CJ01 | Diagonal Hip Girder | 2 | 1 | T35433085 |

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| | | | | | | | | | | | | |
|----------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|---------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.42 | Vert(LL) | -0.03 | 7-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.08 | 6-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 42 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 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) 2=0-7-12, 4= Mechanical, 5= Mechanical
Max Horiz 2=92 (LC 8)
Max Uplift 2=-65 (LC 8), 4=-30 (LC 8)
Max Grav 2=526 (LC 1), 4=136 (LC 1), 5=340 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-897/0, 3-4=-63/31
BOT CHORD 2-7=-1/827, 6-7=0/827, 5-6=0/0
WEBS 3-7=0/275, 3-6=-880/0

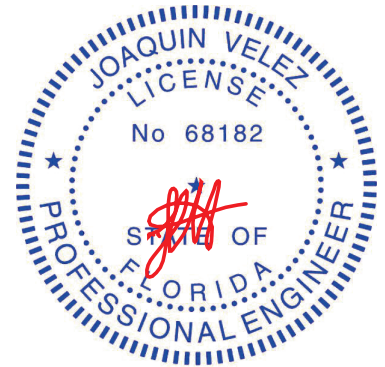
NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 2 SP No.2 .
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4 and 65 lb uplift at joint 2.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 13=-81 (F=-41, B=-41), 14=62 (F=31, B=31), 15=-8 (F=-4, B=4), 16=-60 (F=-30, B=-30)



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

November 1,2024

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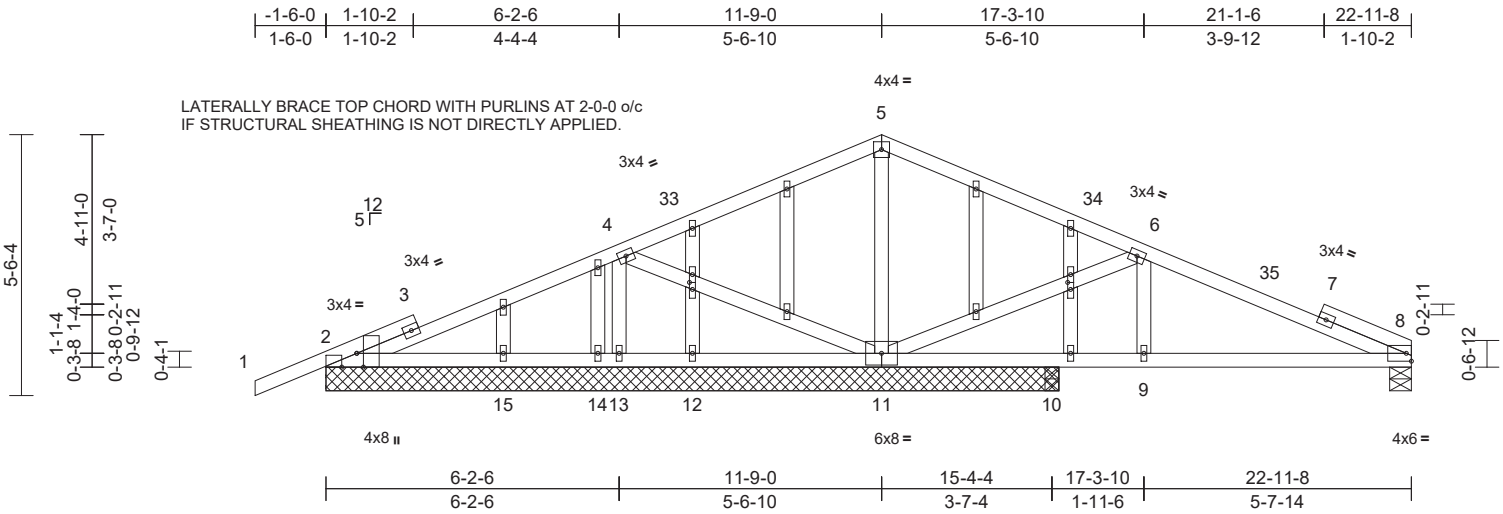
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|--------------------------|-------|-------------------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | D01 | Common Structural Gable | 1 | 1 | T35433086 |
| Job Reference (optional) | | | | | |

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Scale = 1:48.7

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [18:0-1-12,0-0-12], [26:0-1-12,0-0-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.02 | 9-29 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.05 | 9-29 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | -0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 128 lb | FT = 20% |

LUMBER

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

BRACING

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

| | | |
|------------|--------|--|
| REACTIONS | (size) | 2=15-6-0, 8=0-5-8, 10=0-3-8, 11=15-6-0, 12=15-6-0, 13=15-6-0, 14=15-6-0, 15=15-6-0, 30=15-6-0 |
| Max Horiz | | 2=71 (LC 11), 30=71 (LC 11) |
| Max Uplift | | 2=44 (LC 12), 11=36 (LC 12), 13=72 (LC 12), 14=58 (LC 23), 30=44 (LC 12) |
| Max Grav | | 2=227 (LC 23), 8=326 (LC 24), 10=89 (LC 3), 11=814 (LC 1), 12=140 (LC 3), 13=400 (LC 23), 14=27 (LC 12), 15=165 (LC 3), 30=227 (LC 23) |

FORCES

(lb) - Maximum Compression/Maximum Tension

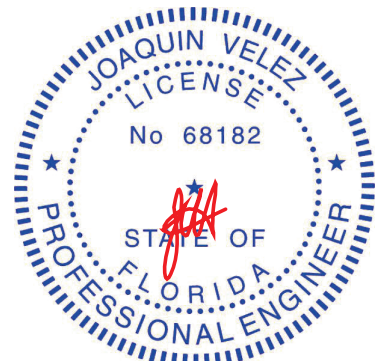
| | |
|-----------|--|
| TOP CHORD | 1-2=0/35, 2-4=-38/205, 4-5=-7/285, 5-6=-7/284, 6-8=-397/59 |
| BOT CHORD | 2-15=-128/41, 14-15=-128/41, 13-14=-128/41, 12-13=-128/41, 10-12=-128/353, 9-10=-12/353, 8-9=-29/353 |
| WEBS | 4-13=-355/85, 4-11=-116/52, 5-11=-480/89, 6-11=-602/98, 6-9=0/160 |

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-4-14, Zone1 1-4-14 to 11-9-0, Zone2 11-9-0 to 15-11-15, Zone1 15-11-15 to 22-8-12 zone; cantilever left and right exposed; 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 1.5x4 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'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2, 72 lb uplift at joint 13, 36 lb uplift at joint 11, 58 lb uplift at joint 14 and 44 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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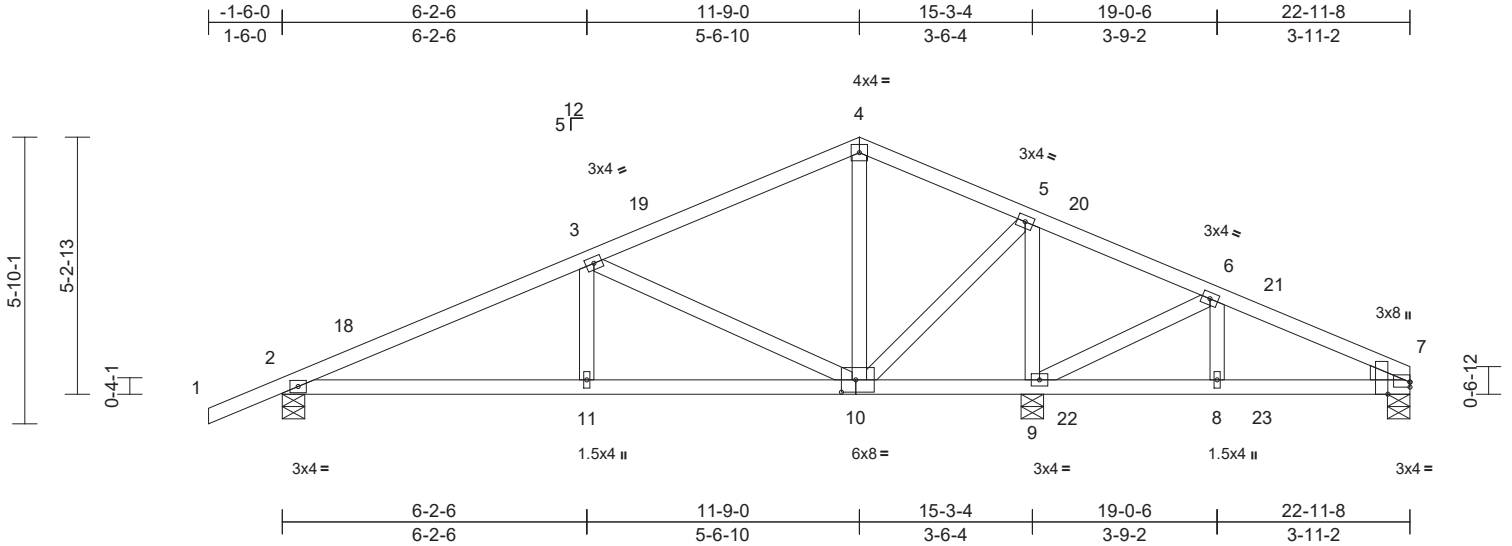
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Chesterfield, MO 63017
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| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | D02 | Common | 1 | 1 | T35433087 |
| Job Reference (optional) | | | | | |

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Page: 1



Scale = 1:46.9

Plate Offsets (X, Y): [7:Edge,0-1-4], [7:0-2-15,Edge], [10:0-3-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.33 | Vert(LL) | -0.03 | 11-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.36 | Vert(CT) | -0.08 | 11-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.42 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 114 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING

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

REACTIONS

(size) 2=0-5-8, 7=0-5-8, 9=0-5-8
Max Horiz 2=76 (LC 11)
Max Uplift 2=-35 (LC 12), 7=-58 (LC 12),
9=-73 (LC 12)
Max Grav 2=626 (LC 1), 7=205 (LC 24),
9=1151 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-864/41, 3-4=-256/43,
4-5=-225/56, 5-6=-30/390, 6-7=-187/221
BOT CHORD 2-11=0/762, 9-11=-322/762, 8-9=-166/156,
7-8=-166/156
WEBS 3-11=0/253, 3-10=-659/77, 4-10=-109/58,
5-9=-891/97, 5-10=-37/683, 6-9=-415/297,
6-8=-142/163

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 11-9-0, Zone2 11-9-0 to 15-11-15, Zone1
15-11-15 to 22-11-8 zone; cantilever left and right
exposed; end vertical left and right exposed; porch right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 58 lb uplift at joint 7 and 73 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 1, 2024

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

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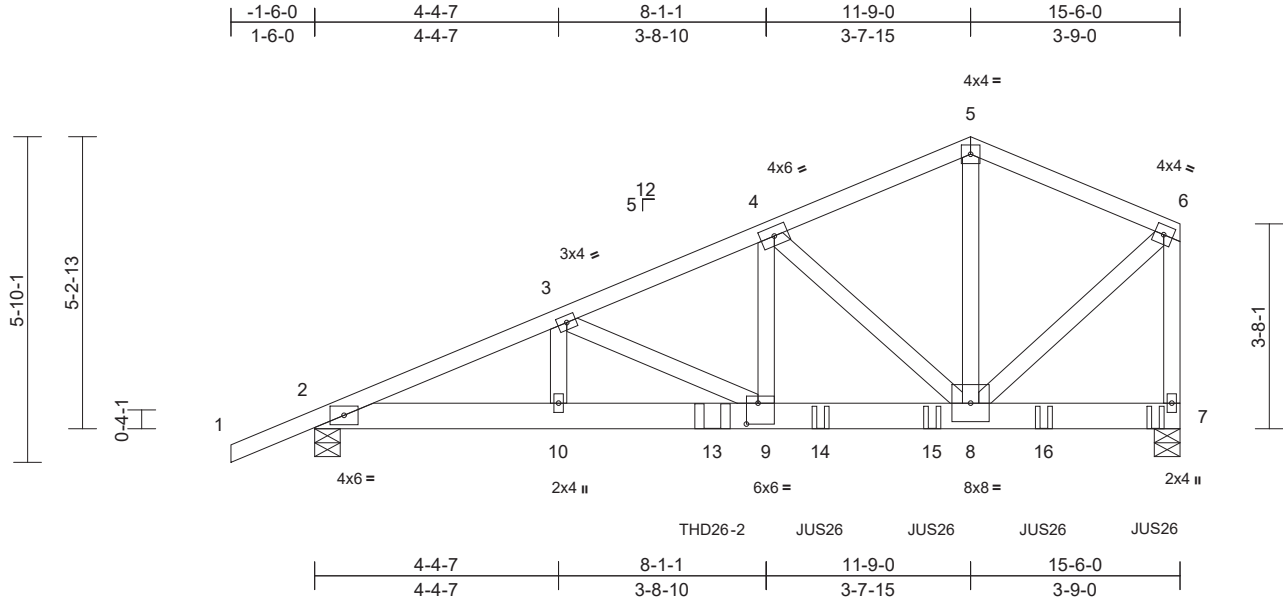
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|----------|-------|---------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | | T35433088 |
| 1024-049 | D03 | Common Girder | 1 | 2 | Job Reference (optional) | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:41.3

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | -0.08 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.43 | Vert(CT) | -0.17 | 9-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.42 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 201 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2

BRACING

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

REACTIONS (size) 2=0-5-8, 7=0-5-8
Max Horiz 2=130 (LC 7)
Max Grav 2=2941 (LC 1), 7=5209 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-7089/0, 3-4=-6195/0, 4-5=-3059/0, 5-6=-3057/0, 6-7=-3817/0
BOT CHORD 2-10=0/6512, 9-10=0/6512, 8-9=0/5693, 7-8=-21/47
WEBS 5-8=0/2142, 6-8=0/3750, 4-8=-3931/0, 3-10=0/550, 3-9=-906/0, 4-9=0/3607

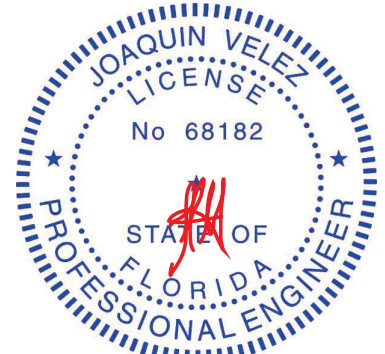
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed ;
end vertical left and right exposed; Lumber DOL=1.60
plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E .
- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 15-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1099 lb down at 15-4-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 5-6=-60, 2-7=-20
Concentrated Loads (lb)
Vert: 7=-1099 (B), 13=-2457 (B), 14=-1092 (B), 15=-1092 (B), 16=-1092 (B)



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

November 1, 2024

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| | | | | | |
|----------|-------|------------------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | E01 | Common Supported Gable | 1 | 1 | T35433089 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

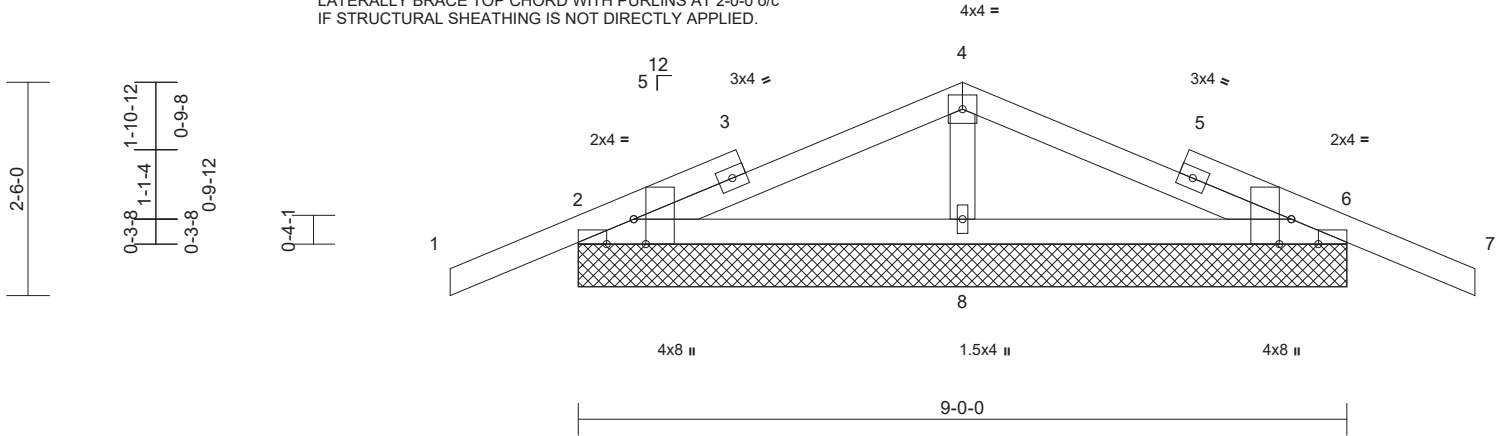
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Page: 1

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| | | | | | |
|--------|--------|--------|--------|--------|--------|
| -1-6-0 | 1-10-2 | 4-6-0 | 7-1-14 | 9-0-0 | 10-6-0 |
| 1-6-0 | 1-10-2 | 2-7-14 | 2-7-14 | 1-10-2 | 1-6-0 |

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



Scale = 1:27

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [6:0-3-8,Edge], [6:0-3-13,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.18 | Vert(LL) | n/a | - | n/a | 999 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 6 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| | | | | | | | | | | Weight: 39 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size) 2=9-0-0, 6=9-0-0, 8=9-0-0, 9=9-0-0,
12=9-0-0
Max Horiz 2=-31 (LC 10), 9=-31 (LC 10)
Max Uplift 2=-57 (LC 12), 6=-57 (LC 12),
8=-43 (LC 12), 9=-57 (LC 12),
12=-57 (LC 12)
Max Grav 2=222 (LC 23), 6=222 (LC 24),
8=497 (LC 1), 9=222 (LC 23),
12=222 (LC 24)

FORCES

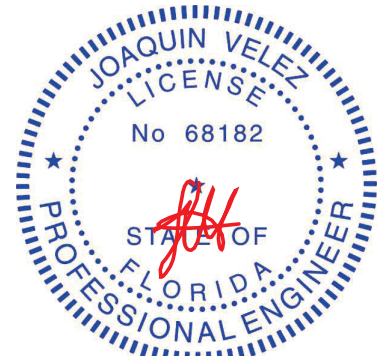
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/35, 2-4=-136/229, 4-6=-136/228,
6-7=0/35
BOT CHORD 2-8=-197/224, 6-8=-197/224
WEBS 4-8=-336/255

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Partially
Enclosed; MWFRS (directional) and C-C Zone3 zone;
cantilever left and right exposed; 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
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 57 lb uplift at joint
2, 57 lb uplift at joint 6, 43 lb uplift at joint 8, 57 lb uplift at
joint 2 and 57 lb uplift at joint 6.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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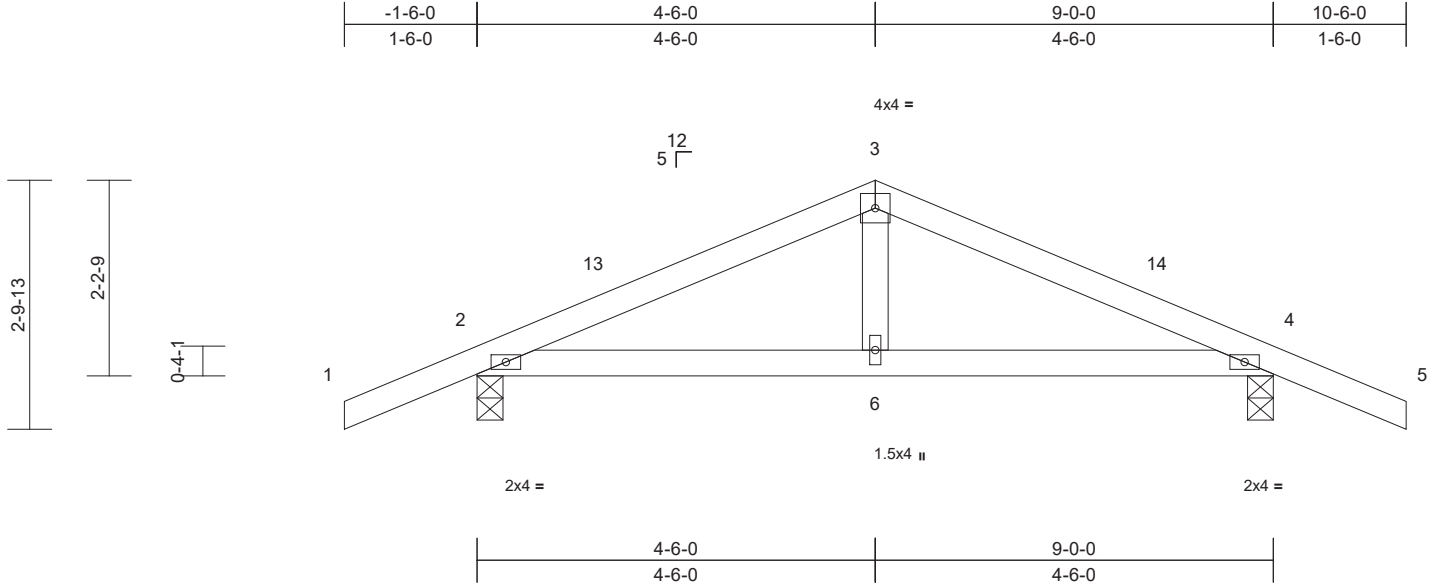
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|----------|-------|------------|-----|-----|--------------------------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| 1024-049 | E02 | Common | 1 | 1 | T35433090 |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Scale = 1:26

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.20 | Vert(LL) | 0.02 | 6-12 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.03 | 6-9 | >999 | 180 | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 4 | n/a | n/a | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | |
| Weight: 35 lb FT = 20% | | | | | | | | | | | |

LUMBER

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

BRACING

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

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

Max Horiz 2=-35 (LC 10)
Max Uplift 2=-78 (LC 12), 4=-78 (LC 12)
Max Grav 2=450 (LC 1), 4=450 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

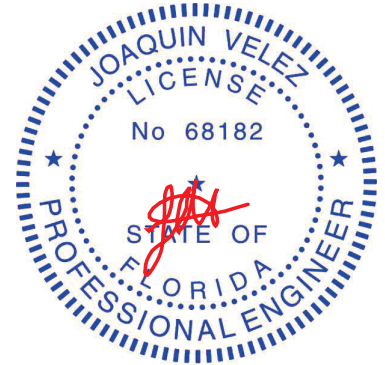
TOP CHORD 1-2=0/35, 2-3=-507/186, 3-4=-507/186,
4-5=0/35
BOT CHORD 2-6=-59/424, 4-6=-59/424
WEBS 3-6=0/205

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-6-0, Zone2 4-6-0 to 9-0-0, Zone1 9-0-0 to 10-6-0 zone; cantilever left and right exposed; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2 and 78 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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

November 1, 2024

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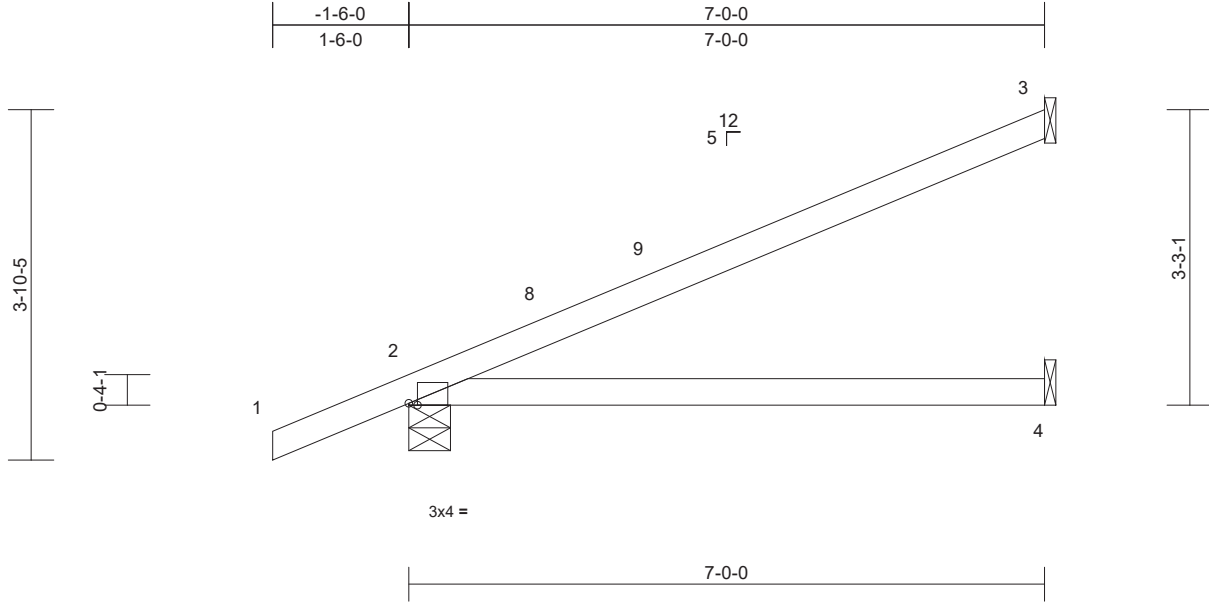
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| | | | | | | |
|----------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) | T35433091 |
| 1024-049 | J01 | Jack-Open | 24 | 1 | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:25.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.59 | Vert(LL) | -0.08 | 4-7 | >992 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.49 | Vert(CT) | -0.21 | 4-7 | >404 | 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-AS | | | | | | | 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=92 (LC 12)
Max Uplift 2=-27 (LC 12), 3=-38 (LC 12)
Max Grav 2=377 (LC 1), 3=185 (LC 1), 4=124 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

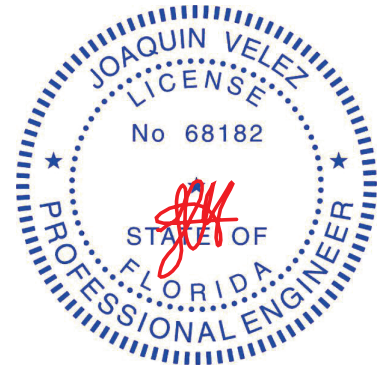
TOP CHORD 1-2=0/35, 2-3=-116/57
BOT CHORD 2-4=-27/93

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 6-11-4 zone; cantilever left and right
exposed ; 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
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be : Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 38 lb uplift at joint
3 and 27 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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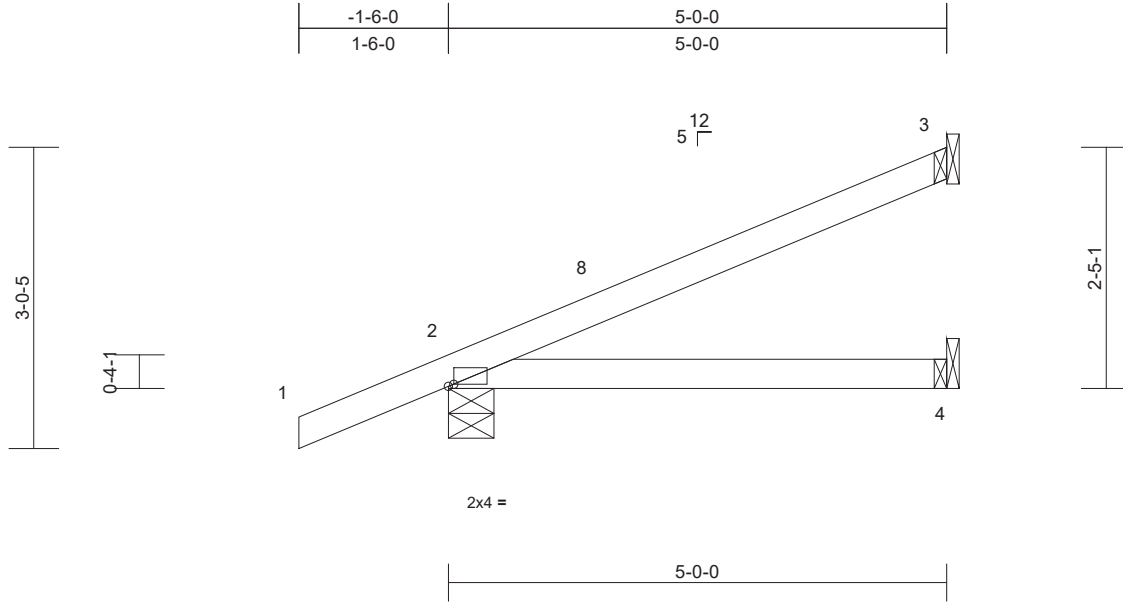
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| | | | | | | |
|----------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Job Reference (optional) | T35433092 |
| 1024-049 | J02 | Jack-Open | 4 | 1 | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

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Scale = 1:23.1

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | 0.03 | 4-7 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.05 | 4-7 | >999 | 180 | 244/190 |
| 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-AS | | | | | | | |
| | | | | | | | | | | 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=72 (LC 12)
Max Uplift 2=-33 (LC 12), 3=-25 (LC 12)
Max Grav 2=301 (LC 1), 3=125 (LC 1), 4=87 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

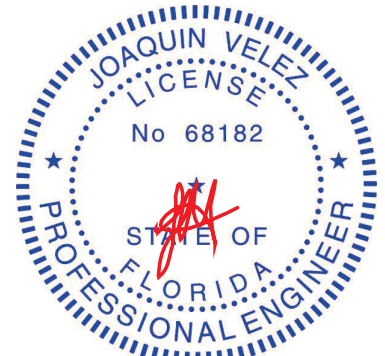
TOP CHORD 1-2=0/35, 2-3=-107/38
BOT CHORD 2-4=-19/62

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 4-11-4 zone; cantilever left and right
exposed ; 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
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be : Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 25 lb uplift at joint
3 and 33 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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

November 1,2024

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

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

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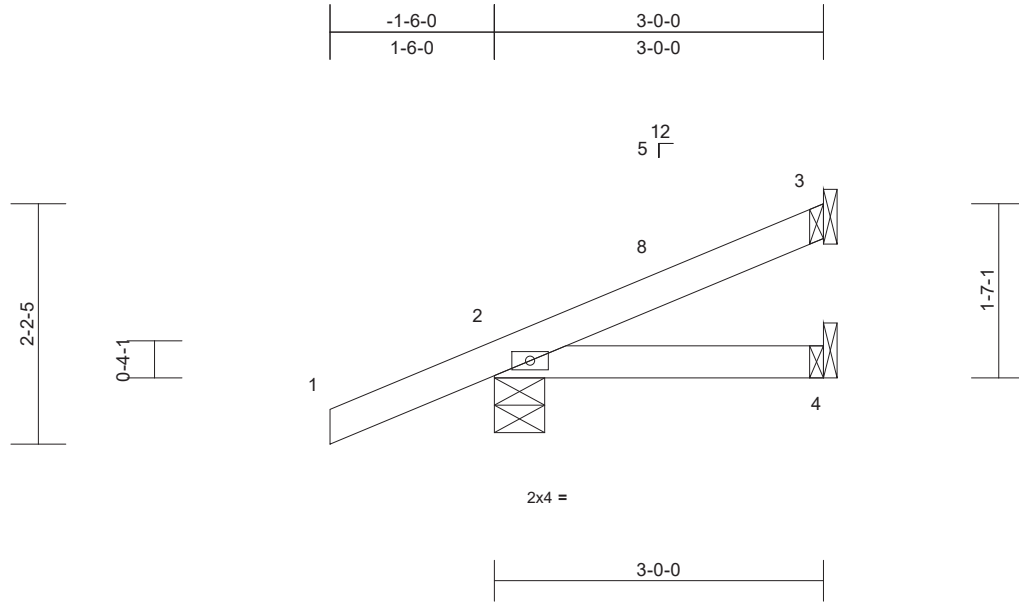
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | J03 | Jack-Open | 4 | 1 | T35433093 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:27
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Page: 1



Scale = 1:21

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | 0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | -0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 12 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4=
Mechanical
Max Horiz 2=52 (LC 12)
Max Uplift 2=42 (LC 12), 3=10 (LC 12)
Max Grav 2=230 (LC 1), 3=64 (LC 1), 4=50
(LC 3)

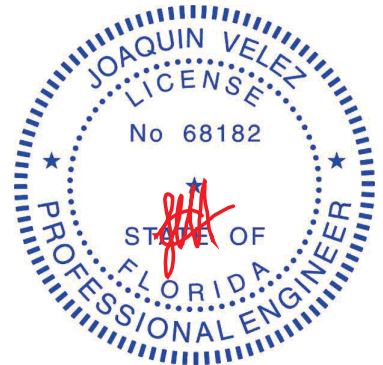
FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/35, 2-3=93/28
BOT CHORD 2-4=31/69

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 2-11-4 zone; cantilever left and right
exposed; 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
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 10 lb uplift at joint
3 and 42 lb uplift at joint 2.
LOAD CASE(S) Standard



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

November 1, 2024

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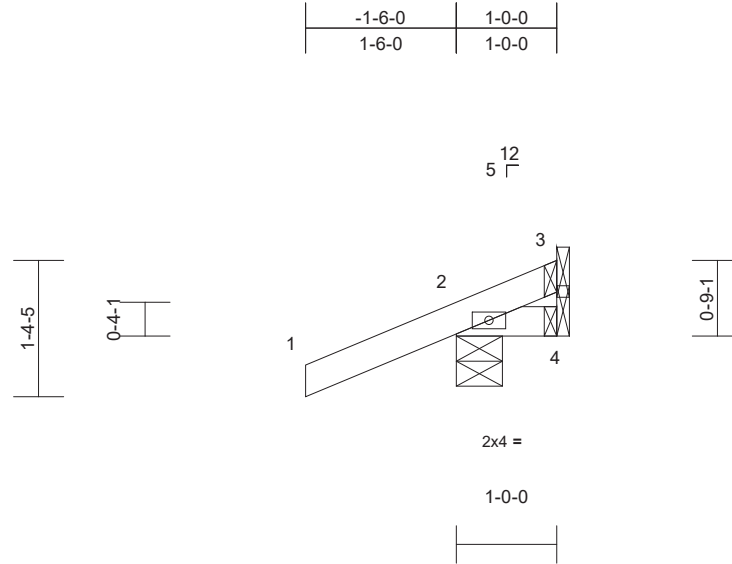
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| | | | | | |
|--------------------------|-------|------------|-----|-----|-----------|
| Job | Truss | Truss Type | Qty | Ply | |
| 1024-049 | J04 | Jack-Open | 4 | 1 | T35433094 |
| Job Reference (optional) | | | | | |

Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Sep 25 2024 Print: 8.730 S Sep 25 2024 MiTek Industries, Inc. Thu Oct 31 14:32:27
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| | | | | | | | | | | | | |
|----------------|-------|-----------------|-----------------|------------|------|-------------|------|-------|--------|-----|---------------|-------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.02 | Vert(CT) | 0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 6 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=33 (LC 12)
Max Uplift 2=-69 (LC 12), 3=-6 (LC 1), 4=-23 (LC 1)
Max Grav 2=198 (LC 1), 3=11 (LC 12), 4=21 (LC 12)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-61/43

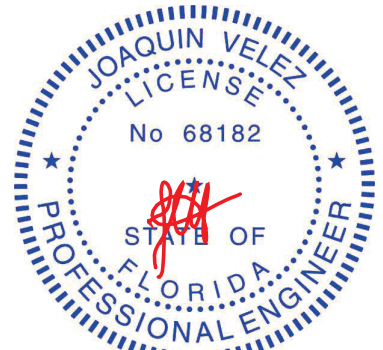
BOT CHORD 2-4=-47/64

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever
left and right exposed ; 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
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 69 lb uplift at joint
2, 23 lb uplift at joint 4 and 6 lb uplift at joint 3.

LOAD CASE(S) Standard



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

November 1,2024

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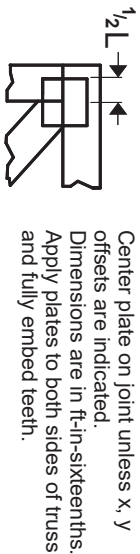
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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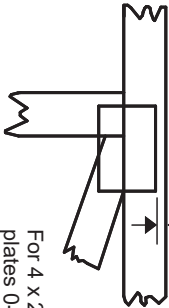
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Symbols

PLATE LOCATION AND ORIENTATION



0-¹/₁₆"



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

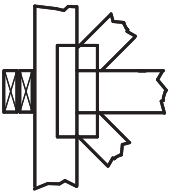
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

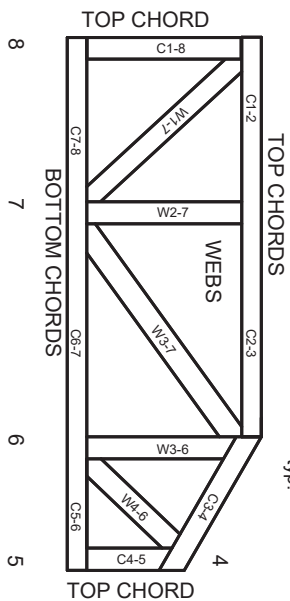
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.