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

RE: 4525744 - GIEBEIG - LOT 53 CW

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

**Site Information:**

Customer Info: Giebeig Const. Project Name: N/A Model: St. Johns Modified
Lot/Block: 53 Subdivision: Crosswinds
Address: TBD, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FRC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 31 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 | T36620349 | CJ01 | 3/10/25 | 15 | T36620363 | T06 | 3/10/25 |
| 2 | T36620350 | CJ03 | 3/10/25 | 16 | T36620364 | T07 | 3/10/25 |
| 3 | T36620351 | CJ05 | 3/10/25 | 17 | T36620365 | T08 | 3/10/25 |
| 4 | T36620352 | EJ05 | 3/10/25 | 18 | T36620366 | T09 | 3/10/25 |
| 5 | T36620353 | EJ07 | 3/10/25 | 19 | T36620367 | T10 | 3/10/25 |
| 6 | T36620354 | HJ07 | 3/10/25 | 20 | T36620368 | T11 | 3/10/25 |
| 7 | T36620355 | HJ09 | 3/10/25 | 21 | T36620369 | T13 | 3/10/25 |
| 8 | T36620356 | T01 | 3/10/25 | 22 | T36620370 | T14 | 3/10/25 |
| 9 | T36620357 | T01G | 3/10/25 | 23 | T36620371 | T15 | 3/10/25 |
| 10 | T36620358 | T02 | 3/10/25 | 24 | T36620372 | T16 | 3/10/25 |
| 11 | T36620359 | T02G | 3/10/25 | 25 | T36620373 | T17 | 3/10/25 |
| 12 | T36620360 | T03 | 3/10/25 | 26 | T36620374 | T18 | 3/10/25 |
| 13 | T36620361 | T04 | 3/10/25 | 27 | T36620375 | T19 | 3/10/25 |
| 14 | T36620362 | T05 | 3/10/25 | 28 | T36620376 | T20 | 3/10/25 |

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
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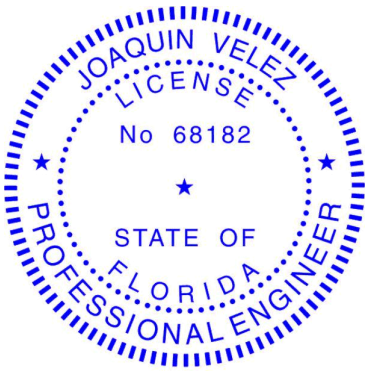
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2027.




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

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

March 10,2025

RE: 4525744 - GIEBEIG - LOT 53 CW

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

**Site Information:**

Customer Info: Giebeig Const. Project Name: N/A Model: St. Johns Modified
Lot/Block: 53 Subdivision: Crosswinds
Address: TBD, N/A
City: Columbia Cty State: FL

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 29 | T36620377 | T21 | 3/10/25 |
| 30 | T36620378 | T22 | 3/10/25 |
| 31 | T36620379 | T23 | 3/10/25 |

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | CJ01 | Jack-Open | 10 | 1 | T36620349 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:36 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-eM1U6Aoa8kfDGQaQLzinAU8CGErbyzEyA041iezdHLH

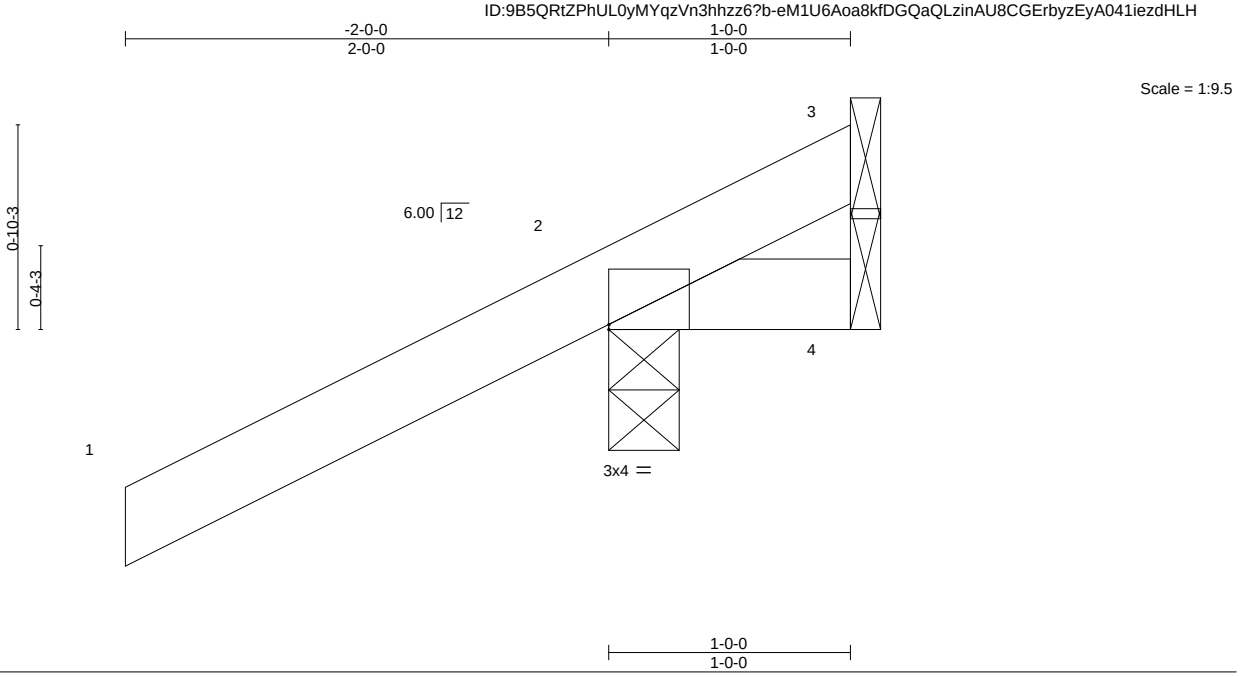



Plate Offsets (X,Y)-- [2:Edge,0-0-4]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | 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 | FRC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 7 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=52(LC 12)
Max Uplift 3=-26(LC 1), 2=-121(LC 12), 4=-47(LC 1)
Max Grav 3=19(LC 16), 2=254(LC 1), 4=34(LC 16)

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

**NOTES-** (6)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=121.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

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

March 10,2025



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

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | CJ03 | JACK-OPEN | 10 | 1 | T36620350 |
| | | | | | Job Reference (optional) |

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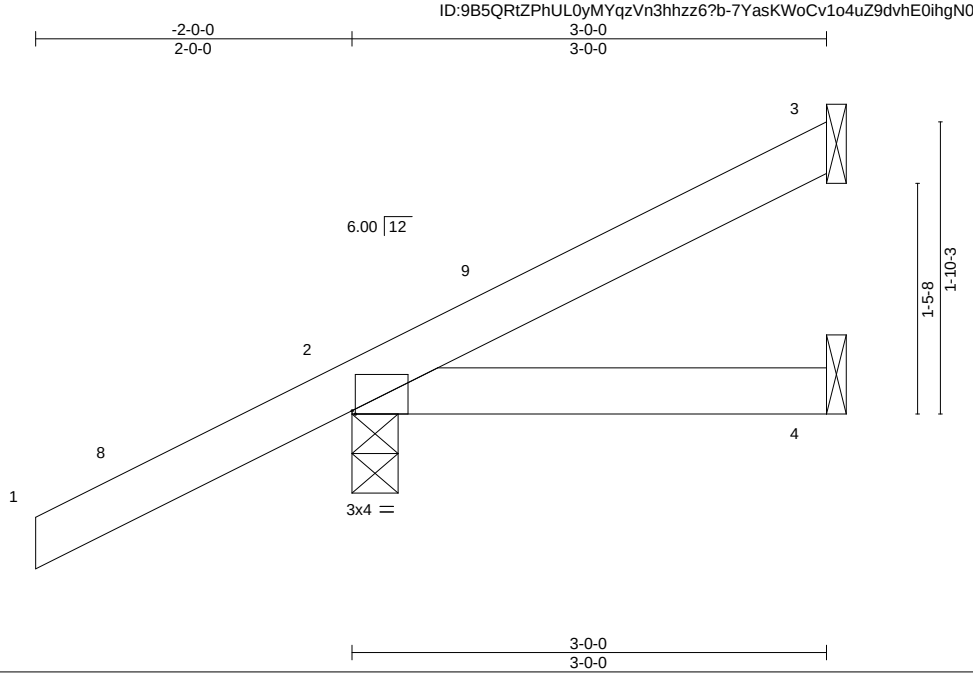


Plate Offsets (X,Y)-- [2:0-0-4,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | -0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.06 | 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 FRC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 13 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 3=-36(LC 12), 2=-92(LC 12), 4=-16(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

**NOTES-** (6)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 10,2025




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

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | CJ05 | Jack-Open | 6 | 1 | T36620351 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:37 2025 Page 1
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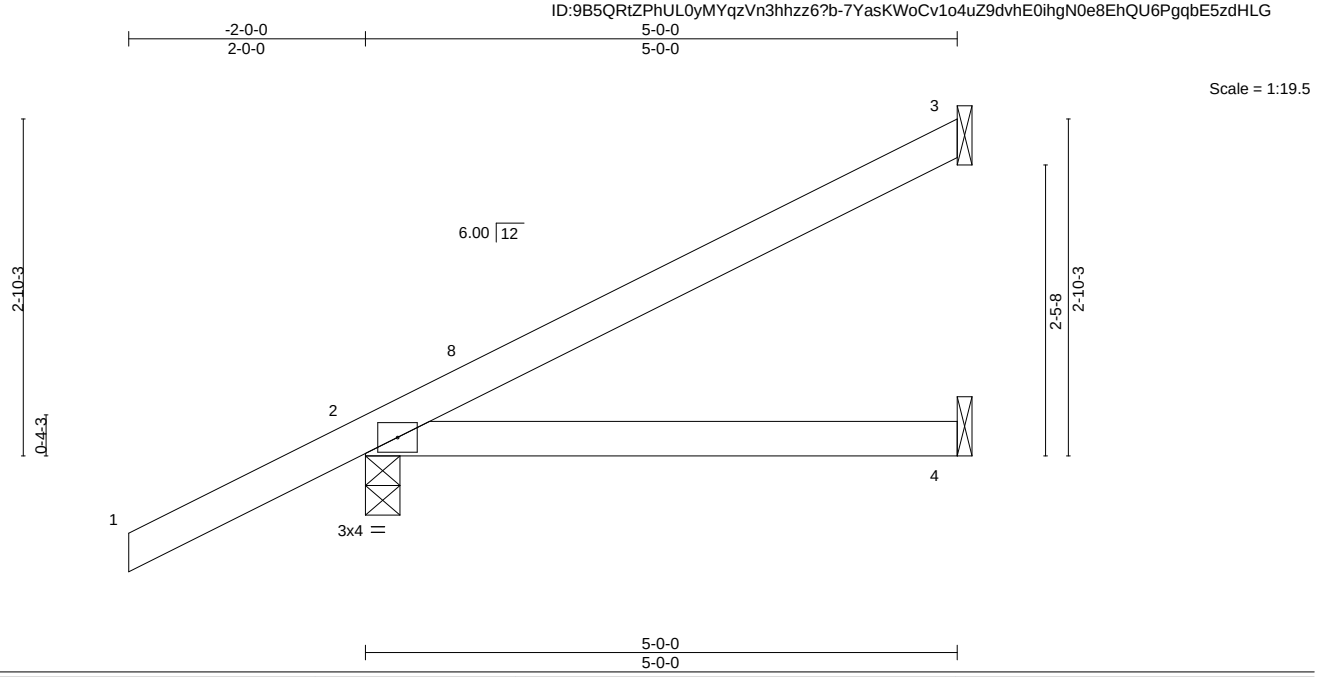


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | -0.02 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.05 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-98(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

**NOTES-** (6)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 10,2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | EJ05 | JACK-OPEN | 3 | 1 | T36620352 |

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:37 2025 Page 1

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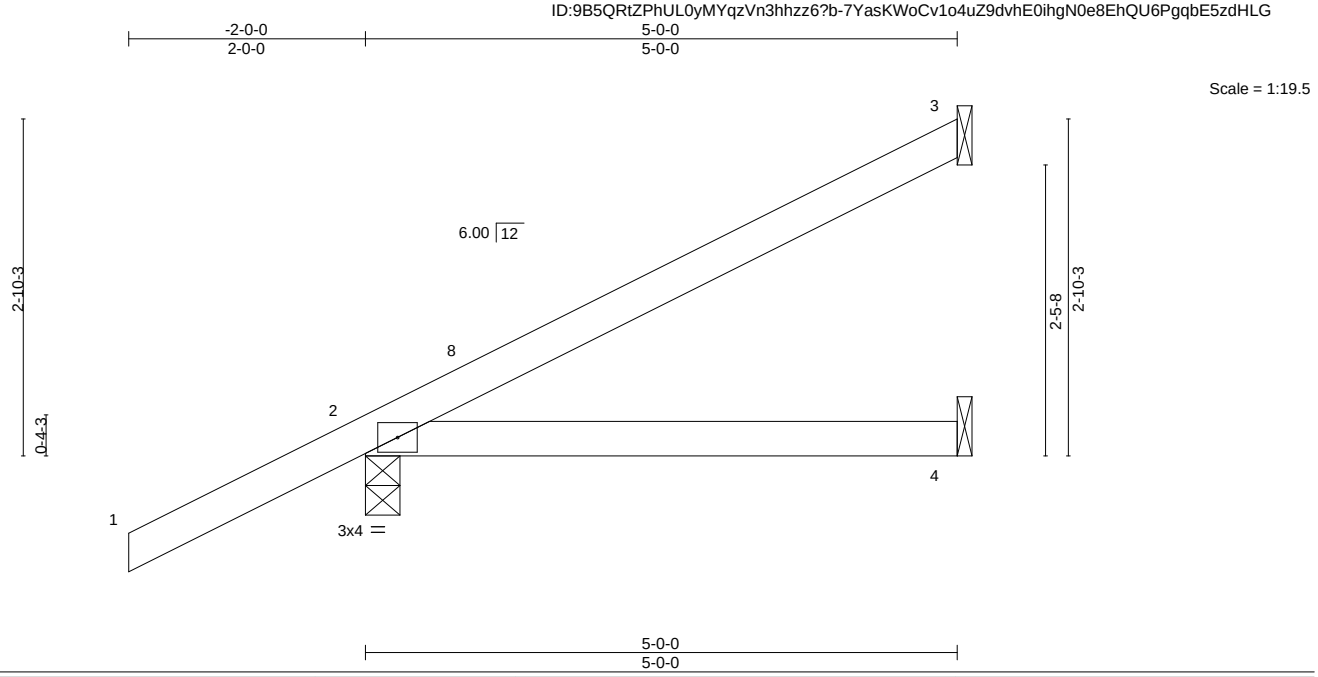


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.30 | Vert(LL) | -0.02 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.05 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-98(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

**NOTES-** (6)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 10,2025



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

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | EJ07 | Jack-Partial | 22 | 1 | T36620353 |
| | | | | | Job Reference (optional) |

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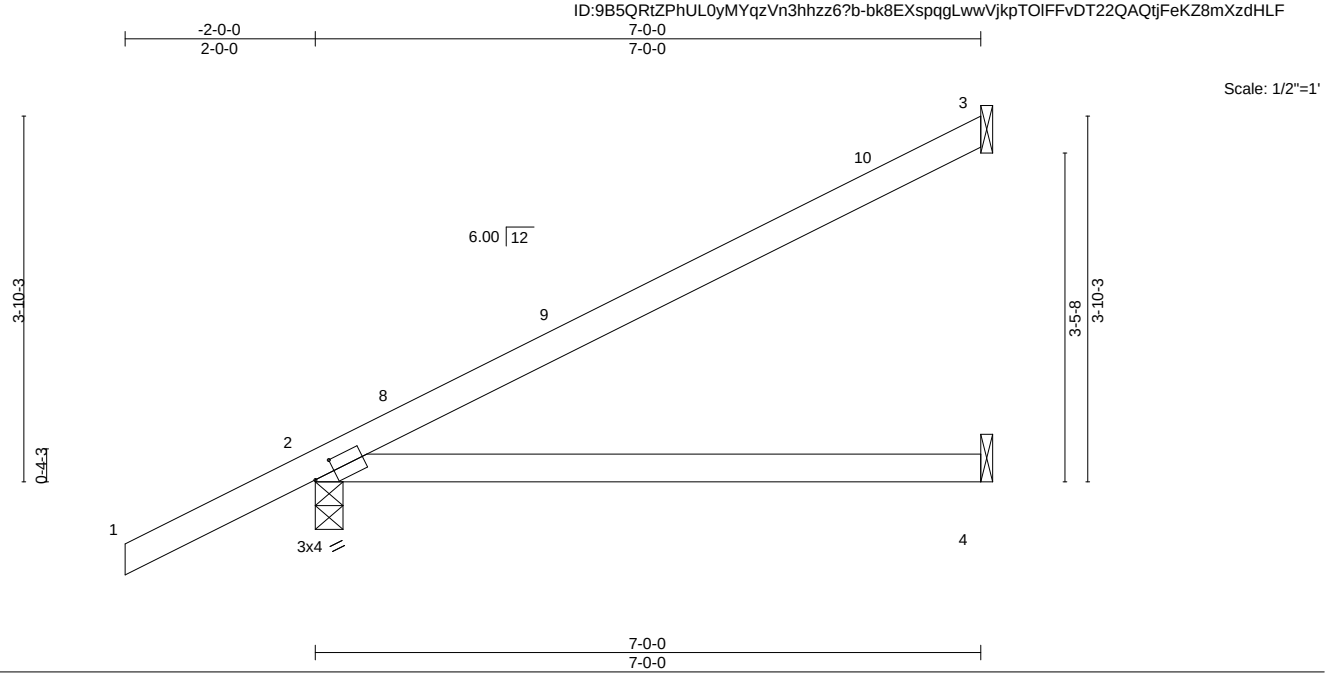


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | 0.10 | 4-7 | >837 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.21 | 4-7 | >395 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 26 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=161(LC 12)
Max Uplift 3=-97(LC 12), 2=-110(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

**NOTES-** (6)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=110.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | HJ07 | Diagonal Hip Girder | 2 | 1 | T36620354 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:38 2025 Page 1
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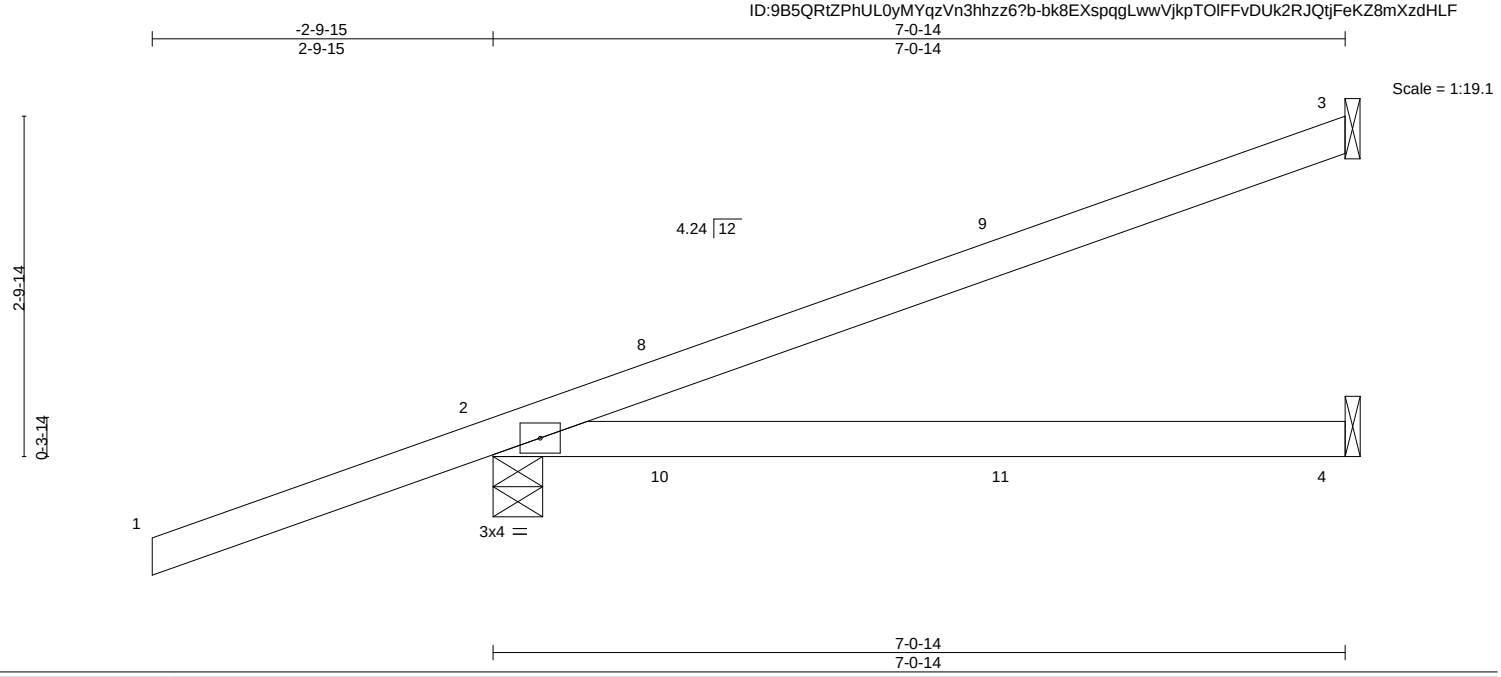


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | -0.10 | 4-7 | >836 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.43 | Vert(CT) | -0.15 | 4-7 | >565 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 26 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-4-15, 4=Mechanical
Max Horz 2=147(LC 4)
Max Uplift 3=-90(LC 8), 2=-200(LC 4), 4=-41(LC 5)
Max Grav 3=141(LC 1), 2=347(LC 1), 4=110(LC 3)

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

**NOTES-** (8)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=200.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, and 21 lb down and 40 lb up at 4-3-11, and 21 lb down and 40 lb up at 4-3-11 on top chord, and 52 lb down and 75 lb up at 1-5-12, 52 lb down and 75 lb up at 1-5-12, and 45 lb down and 23 lb up at 4-3-11, and 45 lb down and 23 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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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:

March 10,2025




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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | HJ09 | Diagonal Hip Girder | 3 | 1 | T36620355 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:39 2025 Page 1
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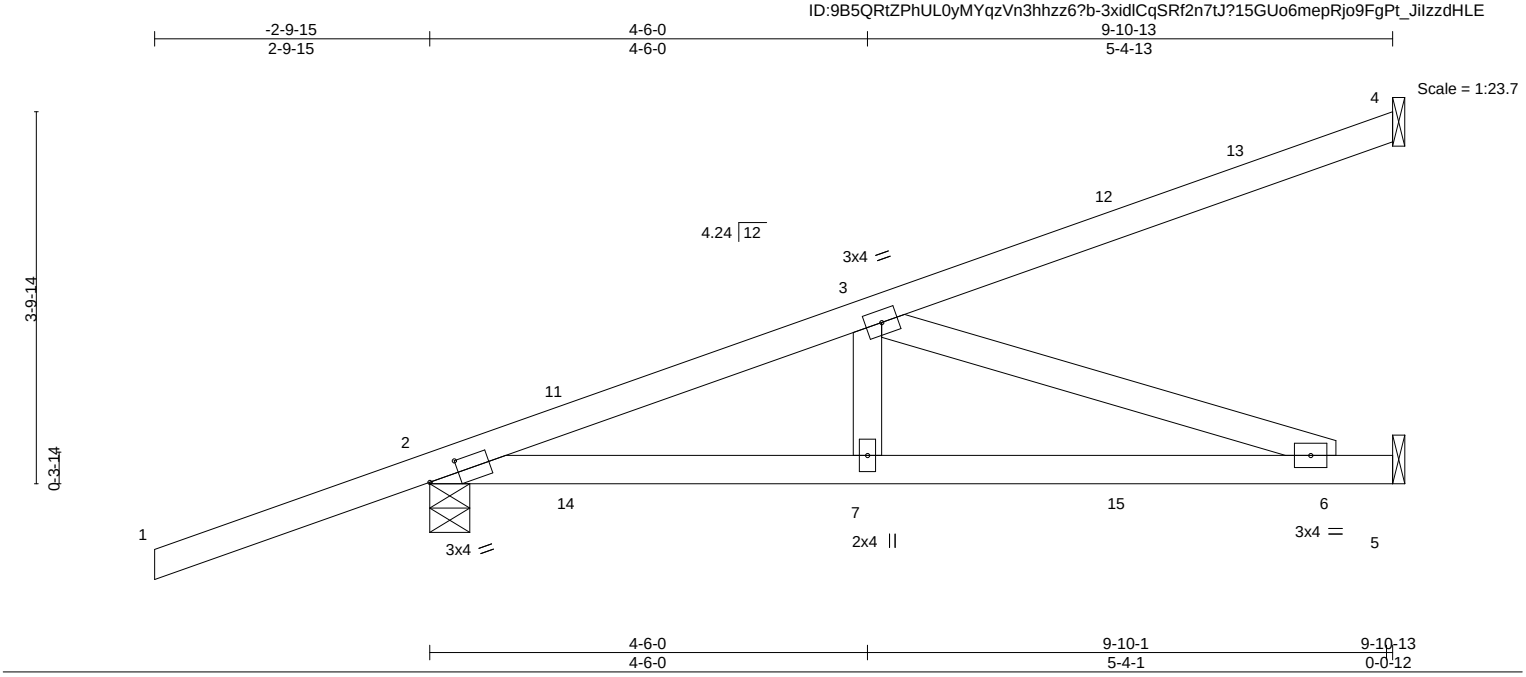


Plate Offsets (X,Y)-- [2:0-3-12,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.60 | Vert(LL) | -0.07 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.15 | 6-7 | >791 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.34 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 44 lb | FT = 20% |

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

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

**REACTIONS.** (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=180(LC 25)
Max Uplift 4=-91(LC 4), 2=-231(LC 4), 5=-76(LC 8)
Max Grav 4=151(LC 1), 2=466(LC 1), 5=267(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-665/261
BOT CHORD 2-7=-301/610, 6-7=-301/610
WEBS 3-7=-11/265, 3-6=-644/318

**NOTES-** (8)
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=231.
6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, 21 lb down and 40 lb up at 4-3-11, 21 lb down and 40 lb up at 4-3-11, and 44 lb down and 83 lb up at 7-1-10, and 44 lb down and 83 lb up at 7-1-10 on top chord, and 26 lb down and 75 lb up at 1-5-12, 26 lb down and 75 lb up at 1-5-12, 19 lb down and 23 lb up at 4-3-11, 19 lb down and 23 lb up at 4-3-11, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 7=4(F=2, B=2) 11=49(F=24, B=24) 12=-63(F=-31, B=-31) 14=70(F=35, B=35) 15=-49(F=-25, B=-25)

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Date:

March 10,2025




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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T01 | Common | 7 | 1 | T36620356 |
| | | | | | Job Reference (optional) |

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-2-0-0 2-0-0 | 5-0-12 5-0-12 | 10-0-0 4-11-4 | 14-11-4 4-11-4 | 20-0-0 5-0-12 | 22-0-0 2-0-0

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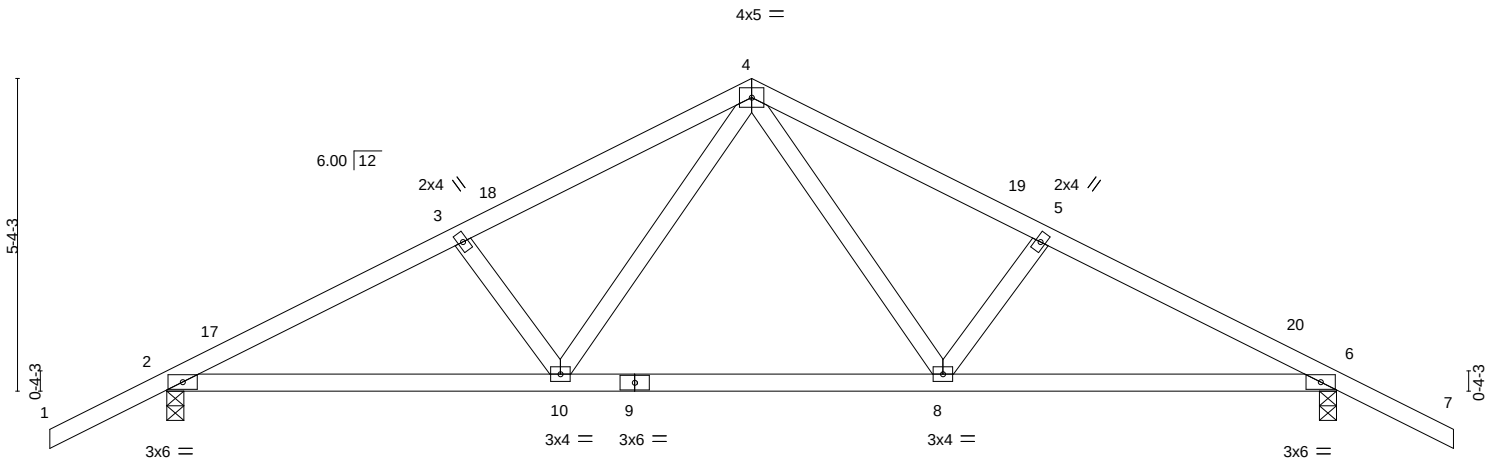


6-8-12 6-8-12 | 13-3-4 6-6-8 | 20-0-0 6-8-12

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.15 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.88 | Vert(CT) | -0.30 | 8-10 | >802 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.25 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 96 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-11 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=100(LC 16)
Max Uplift 2=-305(LC 12), 6=-305(LC 13)
Max Grav 2=1044(LC 1), 6=1044(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1730/465, 3-4=-1589/461, 4-5=-1589/458, 5-6=-1730/465
BOT CHORD 2-10=-423/1500, 8-10=-203/1008, 6-8=-323/1500
WEBS 4-8=-216/666, 4-10=-216/666

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=305, 6=305.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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Chesterfield, MO 63017
Date:

March 10,2025




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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T01G | Common Supported Gable | 1 | 1 | T36620357 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:41 2025 Page 1
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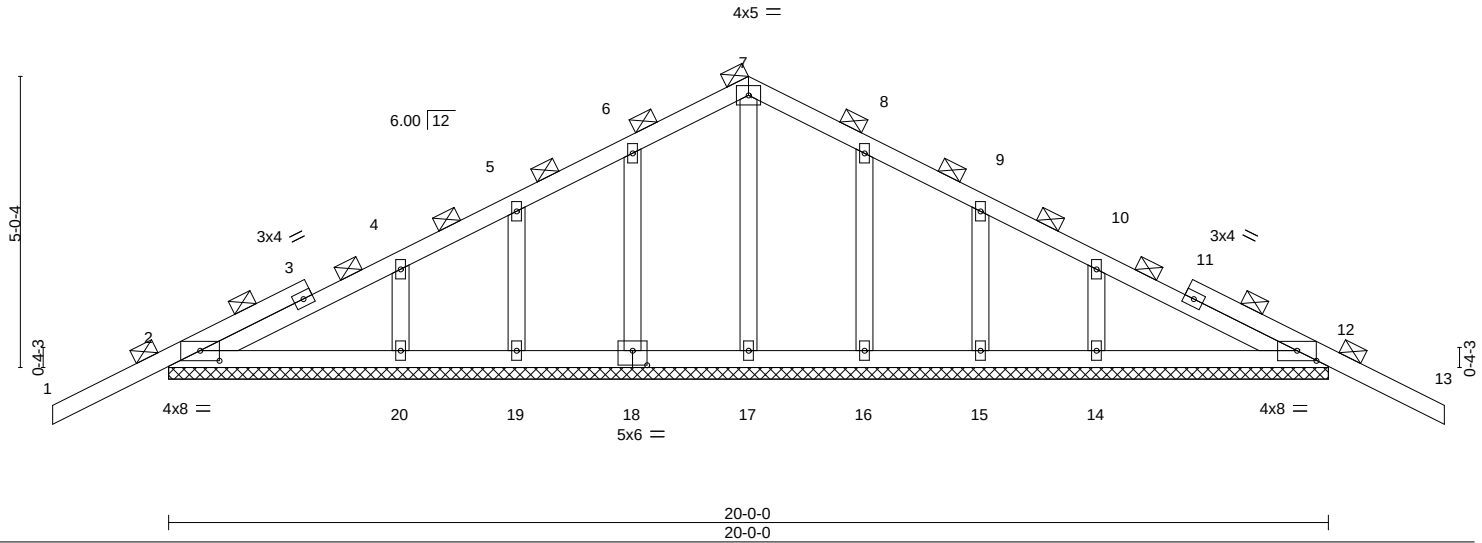
Scale = 1:39.7




20-0-0
20-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [18:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.24 | Vert(LL) | -0.02 | 13 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.10 | Vert(CT) | -0.02 | 13 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 105 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 20-0-0.
(lb) - Max Horz 2=-95(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(LC 26)

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

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Chesterfield, MO 63017
Date:

March 10,2025




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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T02 | Roof Special | 1 | 1 | T36620358 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:41 2025 Page 1
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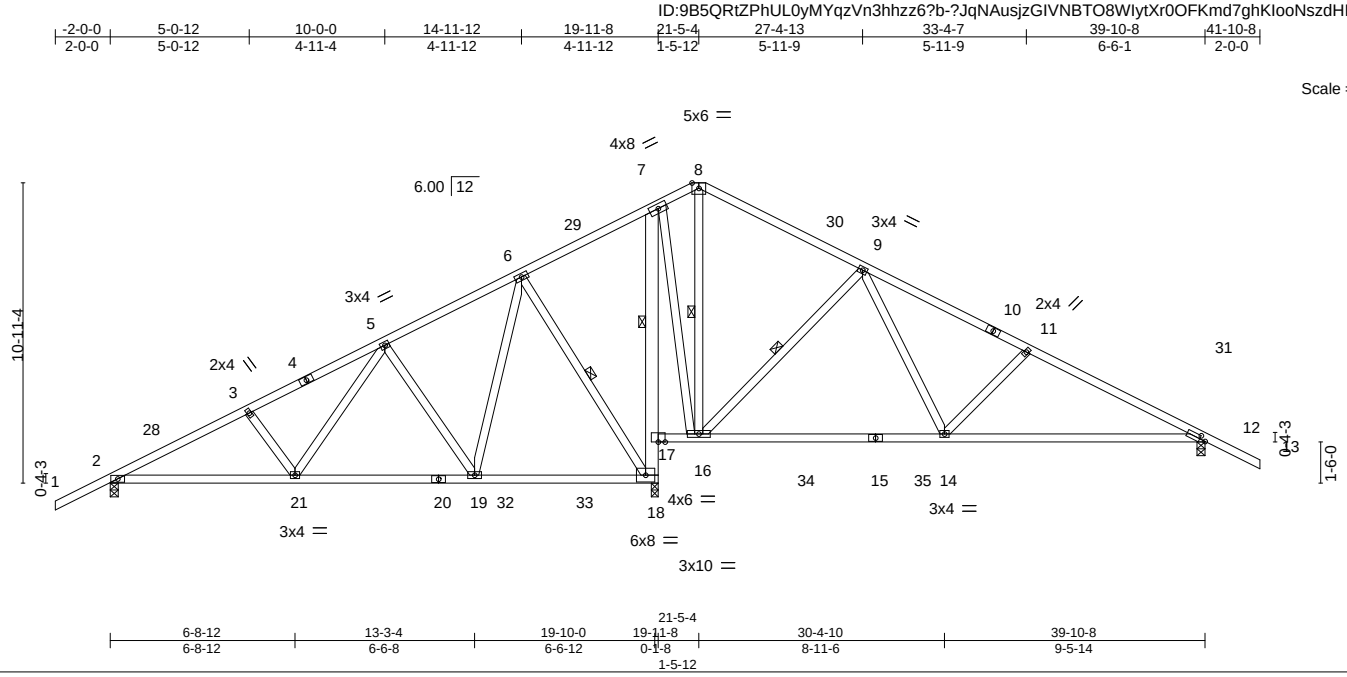


Plate Offsets (X,Y)-- [12:0-2-9,0-1-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.46 | Vert(LL) | -0.19 | 14-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.96 | Vert(CT) | -0.31 | 14-27 | >768 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.03 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 255 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 7-18: 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 4-8-13 oc purlins. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. Except: |
| | 1 Row at midpt 7-17 |
| WEBS | 1 Row at midpt 6-18, 8-16, 9-16 |

**REACTIONS.** (size) 2=0-3-8, 18=0-3-0, 12=0-3-8
Max Horz 2=227(LC 12)
Max Uplift 2=-291(LC 12), 18=-482(LC 12), 12=-299(LC 13)
Max Grav 2=948(LC 27), 18=2037(LC 2), 12=813(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1509/454, 3-5=-1394/460, 5-6=-636/323, 6-7=-29/429, 9-11=-883/465, 11-12=-1075/486
BOT CHORD 2-21=-515/1344, 19-21=-310/846, 18-19=-91/324, 17-18=-1157/388, 7-17=-1157/372, 16-17=-257/174, 14-16=-134/452, 12-14=-367/934
WEBS 5-21=-203/709, 5-19=-578/287, 6-19=-283/980, 6-18=-951/397, 7-16=-303/937, 8-16=-278/0, 9-16=-683/351, 9-14=-296/659, 11-14=-333/225

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 21-5-4, Zone2 21-5-4 to 25-8-3, Zone1 25-8-3 to 41-10-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are 3x6 MT20 unless otherwise indicated.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=291, 18=482, 12=299.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-8=-54, 8-13=-54, 21-22=-20, 19-21=-80(F=-60), 18-19=-20, 17-25=-20

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

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Date:

March 10,2025



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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T02G | GABLE | 1 | 1 | T36620359 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:43 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-xiy7batzVtYDcUdnGxKQyywF230051V_ncHvRlzdHLA

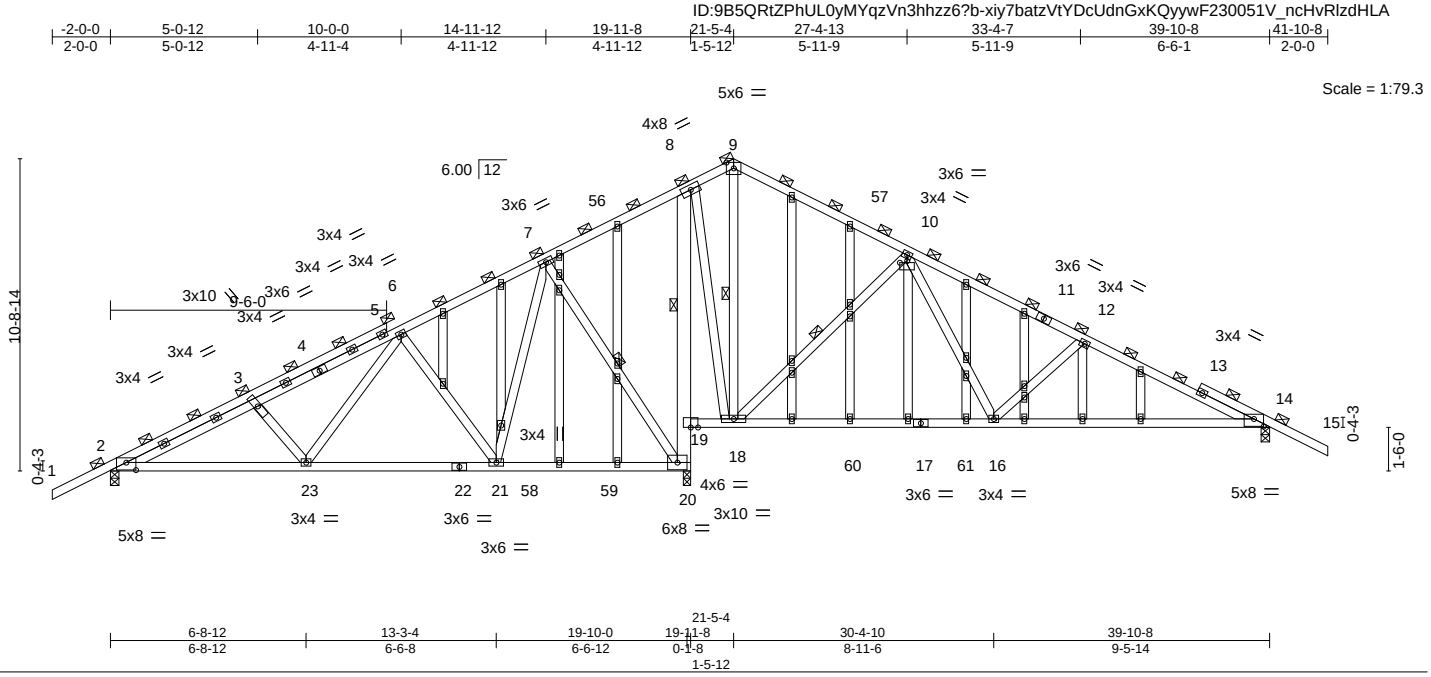


Plate Offsets (X,Y)-- [2:0-4-0,0-3-1], [10:0-3-0,0-0-12], [14:0-4-0,0-3-1]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.90 | Vert(LL) | -0.19 | 16-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.91 | Vert(CT) | -0.31 | 16-18 | >769 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.41 | Horz(CT) | 0.03 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 350 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* 8-20: 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (3-3-12 max.). |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 8-19 |
| WEBS | 1 Row at midpt 7-20, 9-18, 10-18 |

**REACTIONS.** (size) 2=0-3-8, 20=0-3-0, 14=0-3-8
Max Horz 2=223(LC 12)
Max Uplift 2=-297(LC 12), 20=-474(LC 12), 14=-296(LC 13)
Max Grav 2=948(LC 27), 20=2038(LC 2), 14=799(LC 28)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1508/445, 3-6=-1412/451, 6-7=-650/312, 7-8=-28/446, 9-10=-43/263, 10-12=-892/468, 12-14=-1096/502
BOT CHORD 2-23=-522/1363, 21-23=-329/878, 20-21=-103/328, 19-20=-1170/402, 8-19=-1165/385, 18-19=-278/180, 16-18=-133/436, 14-16=-397/987
WEBS 6-23=-187/681, 6-21=-588/286, 7-21=-277/978, 7-20=-950/394, 8-18=-312/950, 9-18=-301/0, 10-18=-684/354, 10-16=-304/679, 12-16=-372/235

**NOTES-** (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-5, Zone1 1-2-5 to 21-5-4, Zone2 21-5-4 to 25-8-3, Zone1 25-8-3 to 41-10-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 20=474, 14=296.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

Continued on page 2

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

Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date: March 10,2025



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**LOAD CASE(S)** Standard

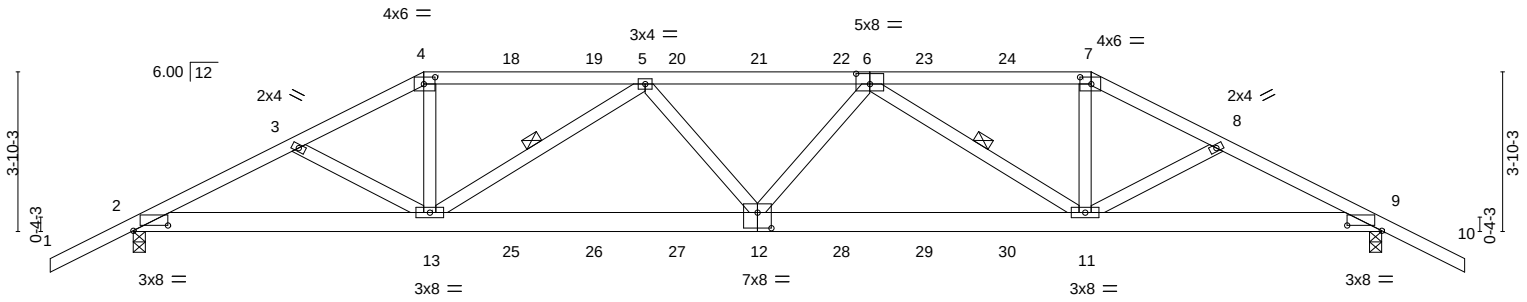
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-9=-54, 9-15=-54, 23-50=-20, 21-23=-80(F=-60), 20-21=-20, 19-53=-20

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T03 | Hip Girder | 1 | 1 | T36620360 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:44 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-PuVWovubGBg4EeBzpfsfVATSmSUBqSV80G0T_BzdHL9

| -2-0-0 | 3-11-13 | 7-0-0 | 12-4-0 | 17-9-0 | 23-1-0 | 26-1-3 | 30-1-0 | 32-1-0 |
|---|---|---|---|---|---|---|---|---|
| 2-0-0 | 3-11-13 | 3-0-3 | 5-4-0 | 5-4-15 | 5-4-0 | 3-0-3 | 3-11-13 | 2-0-0 |

Scale = 1:55.5




| 7-0-0 | 15-0-8 | 23-1-0 | 30-1-0 |
|---|---|---|---|
| 7-0-0 | 8-0-8 | 8-0-8 | 7-0-0 |

Plate Offsets (X,Y)-- [2:0-10-0,0-1-9], [4:0-3-4,0-2-0], [6:0-4-0,0-3-0], [7:0-3-4,0-2-0], [9:0-10-0,0-1-9], [12:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.78 | Vert(LL) | -0.24 | 12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.47 | 11-12 | >774 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.56 | Horz(CT) | 0.11 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 174 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
4-6,6-7: 2x4 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-0-2 oc bracing.
WEBS 1 Row at midpt 5-13, 6-11

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8
Max Horz 2=75(LC 29)
Max Uplift 2=-706(LC 8), 9=-727(LC 9)
Max Grav 2=2215(LC 1), 9=2255(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4368/1359, 3-4=-4209/1305, 4-5=-3805/1210, 5-6=-5227/1569, 6-7=-3883/1248, 7-8=-4298/1349, 8-9=-4457/1402
BOT CHORD 2-13=-1205/3867, 12-13=-1548/5049, 11-12=-1553/5076, 9-11=-1169/3947
WEBS 4-13=-345/1465, 5-13=-1546/590, 5-12=0/445, 6-12=0/425, 6-11=-1472/538, 7-11=-317/1431

**NOTES-** (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=706, 9=727.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 91 lb up at 15-0-8, 106 lb down and 100 lb up at 17-0-4, 106 lb down and 100 lb up at 19-0-4, and 106 lb down and 100 lb up at 21-0-4, and 228 lb down and 195 lb up at 23-1-0 on top chord, and 294 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-8, 85 lb down at 17-0-4, 85 lb down at 19-0-4, and 85 lb down at 21-0-4, and 294 lb down and 103 lb up at 23-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

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Chesterfield, MO 63017
Date:

March 10,2025

Continued on page 2



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**LOAD CASE(S)** Standard

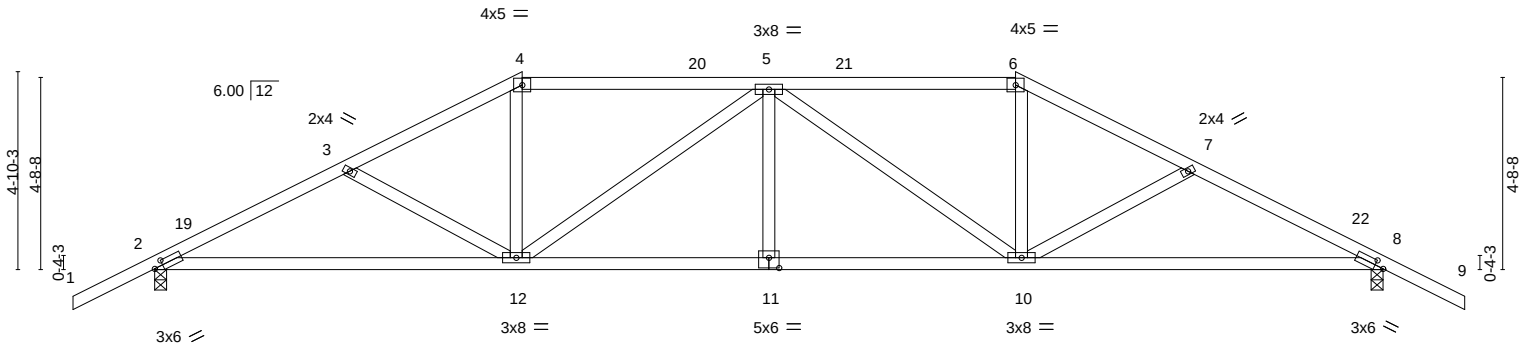
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-7=-54, 7-10=-54, 2-9=-20
   Concentrated Loads (lb)
   Vert: 4=-106(F) 7=-181(F) 12=-61(F) 13=-285(F) 11=-285(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 23=-106(F) 24=-106(F) 25=-61(F) 26=-61(F) 27=-61(F) 28=-61(F) 29=-61(F) 30=-61(F)

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T04 | Hip | 1 | 1 | T36620361 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:44 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-PuVWovubGBg4EeBzpfsfVATYXSPpqSP80G0T_BzdHL9

| -2-0-0 | 4-9-5 | 9-0-0 | 15-0-8 | 21-1-0 | 25-3-11 | 30-1-0 | 32-1-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 4-9-5 | 4-2-11 | 6-0-8 | 6-0-8 | 4-2-11 | 4-9-5 | 2-0-0 |

Scale = 1:56.4




| 9-0-0 | 15-0-8 | 21-1-0 | 30-1-0 |
|---|---|---|---|
| 9-0-0 | 6-0-8 | 6-0-8 | 9-0-0 |

Plate Offsets (X,Y)-- [2:0-2-9,0-1-8], [8:0-2-9,0-1-8], [11:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | -0.14 | 12-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.74 | Vert(CT) | -0.30 | 12-15 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.09 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 153 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-5-2 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-90(LC 17)
Max Uplift 2=-347(LC 12), 8=-347(LC 13)
Max Grav 2=1221(LC 1), 8=1221(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2049/551, 3-4=-1821/470, 4-5=-1576/454, 5-6=-1576/454, 6-7=-1821/470, 7-8=-2049/551
BOT CHORD 2-12=-490/1805, 11-12=-407/1924, 10-11=-407/1924, 8-10=-401/1805
WEBS 4-12=-95/533, 5-12=-519/198, 5-10=-519/198, 6-10=-95/533

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-1-0, Zone2 21-1-0 to 25-5-9, Zone1 25-5-9 to 32-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=347, 8=347.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025




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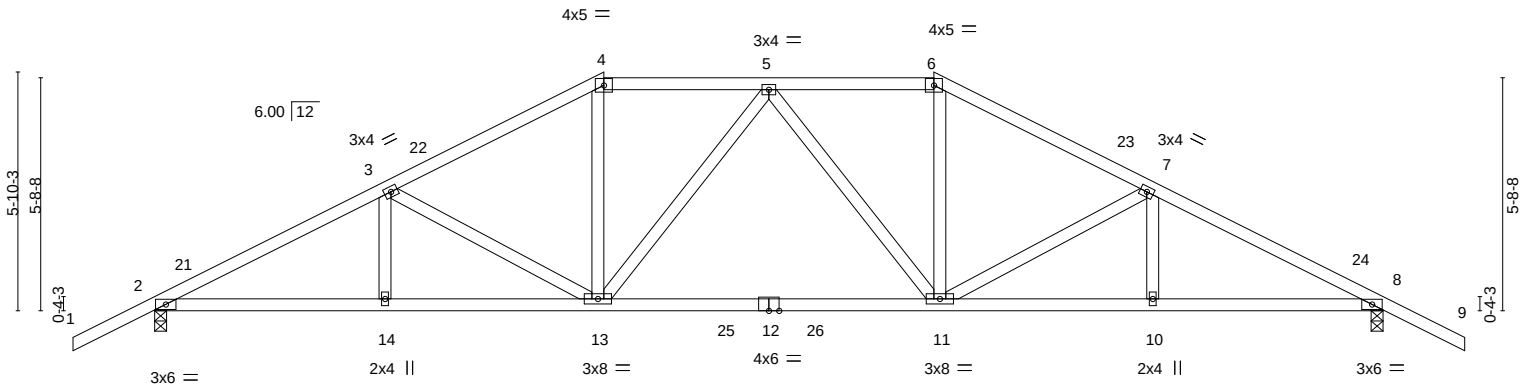
| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T05 | Hip | 1 | 1 | T36620362 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:45 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-u53u?FvD1Voxrom9NMNu1N?l7sk0ZzyHFwm0WdzdHL8

| -2-0-0 | 5-7-11 | 11-0-0 | 15-0-8 | 19-1-0 | 24-5-5 | 30-1-0 | 32-1-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 5-7-11 | 5-4-5 | 4-0-8 | 4-0-8 | 5-4-5 | 5-7-11 | 2-0-0 |

Scale = 1:56.4




| 5-7-11 | 11-0-0 | 19-1-0 | 24-5-5 | 30-1-0 |
|---|---|---|---|---|
| 5-7-11 | 5-4-5 | 8-1-0 | 5-4-5 | 5-7-11 |

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.23 | 11-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.81 | Vert(CT) | -0.41 | 11-13 | >870 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.09 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 160 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-8 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-106(LC 17)
Max Uplift 2=-344(LC 12), 8=-344(LC 13)
Max Grav 2=1293(LC 2), 8=1293(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2232/523, 3-4=-1821/429, 4-5=-1572/421, 5-6=-1572/421, 6-7=-1821/429, 7-8=-2232/524
BOT CHORD 2-14=-476/1959, 13-14=-476/1959, 11-13=-280/1656, 10-11=-370/1958, 8-10=-370/1958
WEBS 3-13=-434/216, 4-13=-100/599, 5-13=-270/131, 5-11=-270/131, 6-11=-100/599, 7-11=-435/217

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-0-8, Zone1 15-0-8 to 19-1-0, Zone2 19-1-0 to 23-3-15, Zone1 23-3-15 to 32-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=344, 8=344.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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March 10,2025




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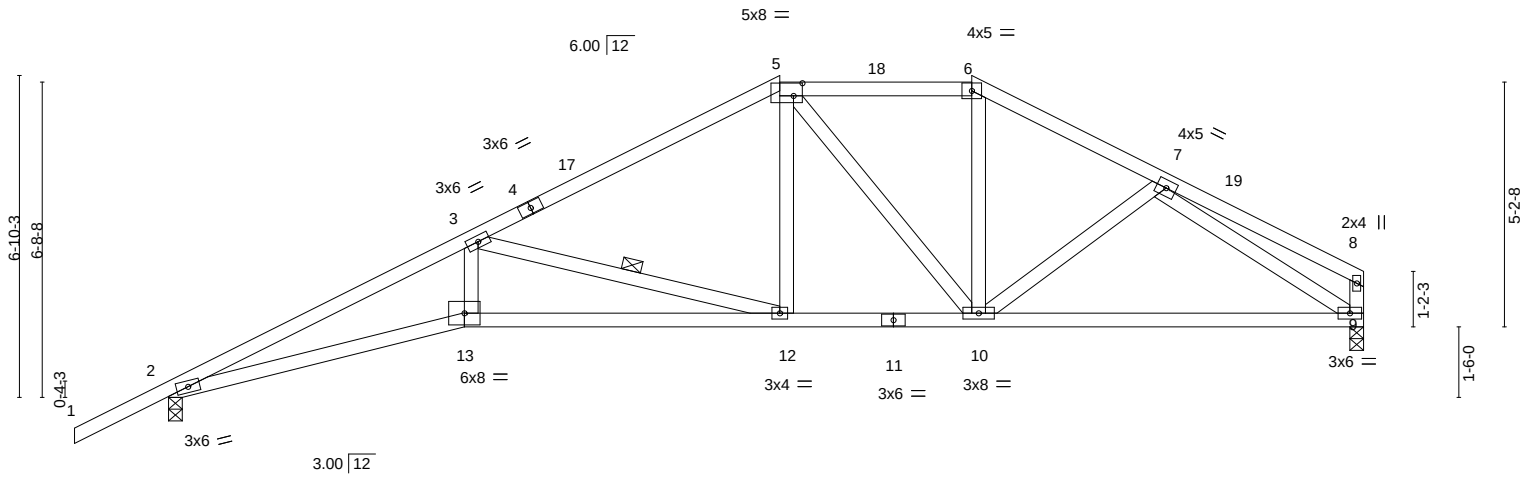
| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T06 | Hip | 1 | 1 | T36620363 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:46 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-MHdGDbvroowoTyLLx4u7abYq9G3ulLVRUaVZ23zdHL7

| -2-0-0 | 6-3-8 | 13-0-0 | 17-1-0 | 21-0-14 | 25-5-0 |
|---|---|---|---|---|---|
| 2-0-0 | 6-3-8 | 6-8-8 | 4-1-0 | 3-11-14 | 4-4-2 |

Scale = 1:49.0




| 6-3-8 | 13-0-0 | 17-1-0 | 25-5-0 |
|---|---|---|---|
| 6-3-8 | 6-8-8 | 4-1-0 | 8-4-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.59 | Vert(LL) | -0.18 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.77 | Vert(CT) | -0.38 | 12-13 | >808 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.59 | Horz(CT) | 0.16 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 134 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-1-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-4 oc bracing.
WEBS 1 Row at midpt 3-12

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8
Max Horz 2=193(LC 12)
Max Uplift 2=-306(LC 12), 9=-221(LC 13)
Max Grav 2=1047(LC 1), 9=931(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3021/898, 3-5=-1416/384, 5-6=-1052/299, 6-7=-1230/320
BOT CHORD 2-13=-919/2731, 12-13=-873/2580, 10-12=-307/1212, 9-10=-238/1063
WEBS 3-13=-183/763, 3-12=-1428/588, 5-12=-122/479, 5-10=-320/150, 6-10=-88/333, 7-9=-1152/289

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone3 13-0-0 to 17-1-0, Zone2 17-1-0 to 21-2-1, Zone1 21-2-1 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 9=221.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 10,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T07 | Roof Special | 4 | 1 | T36620364 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:46 2025 Page 1
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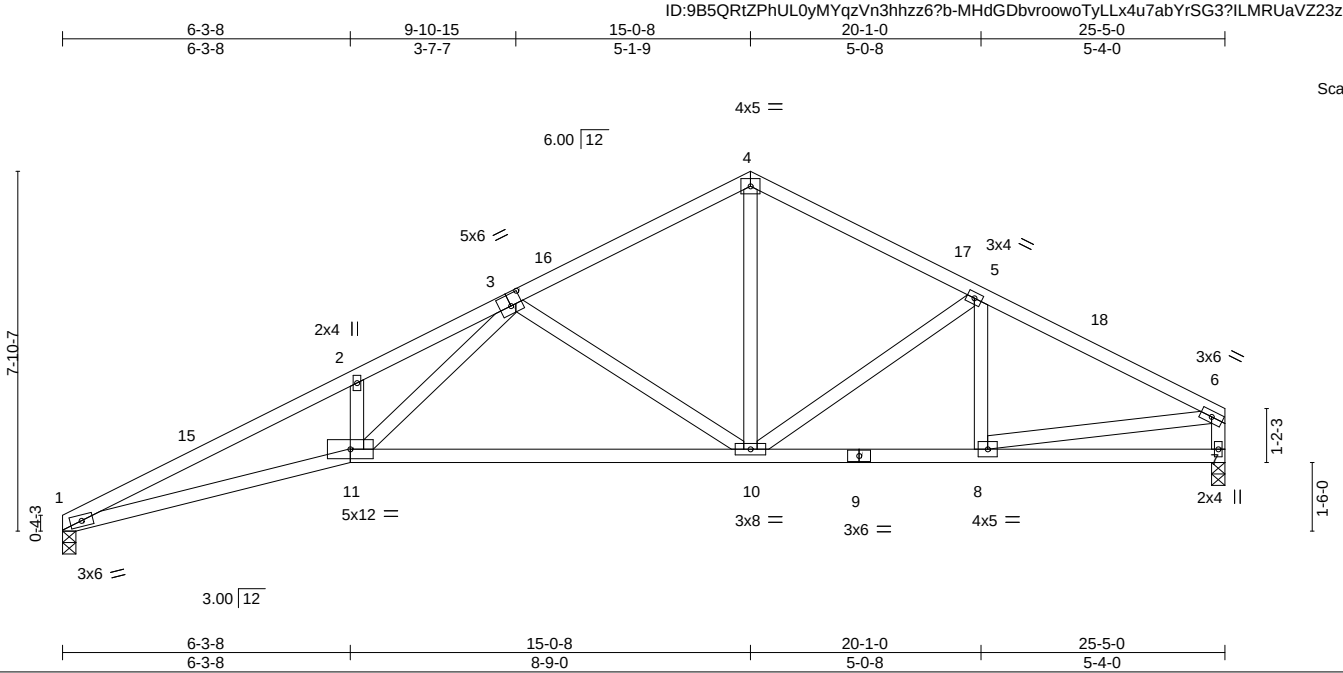


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | -0.23 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.83 | Vert(CT) | -0.52 | 10-11 | >580 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.14 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 129 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-1 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 7=0-3-8
Max Horz 1=178(LC 12)
Max Uplift 1=-249(LC 12), 7=-217(LC 13)
Max Grav 1=935(LC 1), 7=935(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3043/892, 2-3=-3019/998, 3-4=-1154/319, 4-5=-1153/341, 5-6=-1320/309, 6-7=-877/234
BOT CHORD 1-11=-930/2753, 10-11=-534/1642, 8-10=-240/1129
WEBS 3-11=-530/1450, 3-10=-797/383, 4-10=-179/712, 5-10=-252/174, 6-8=-224/1027

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-8, Zone2 15-0-8 to 19-3-7, Zone1 19-3-7 to 25-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=249, 7=217.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 10,2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T08 | Roof Special | 1 | 1 | T36620365 |
| | | | | | Job Reference (optional) |

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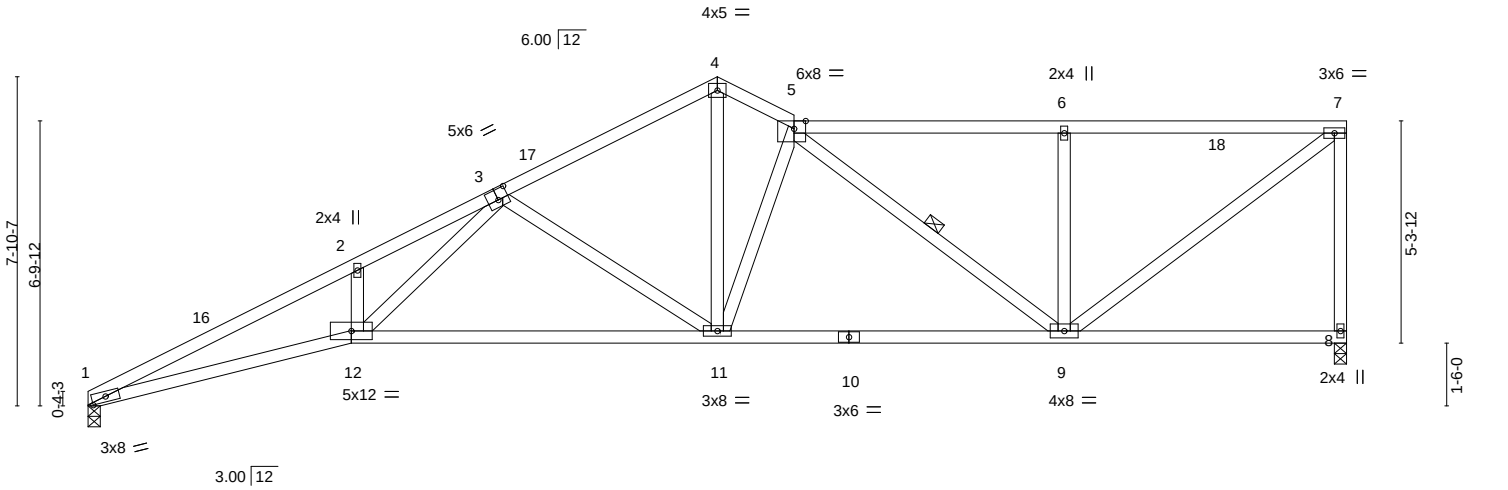
| 6-3-8 | 9-10-15 | 15-0-8 | 16-10-8 | 23-4-0 | 30-1-0 |
|---|---|---|---|---|---|
| 6-3-8 | 3-7-7 | 5-1-9 | 1-10-0 | 6-5-8 | 6-9-0 |

Scale = 1:55.1




| 6-3-8 | 15-0-8 | 23-4-0 | 30-1-0 |
|---|---|---|---|
| 6-3-8 | 8-9-0 | 8-3-8 | 6-9-0 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.68 | Vert(LL) | -0.25 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.94 | Vert(CT) | -0.59 | 11-12 | >612 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.65 | Horz(CT) | 0.19 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 165 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (size) 8=0-3-8, 1=0-3-8
Max Horz 1=268(LC 12)
Max Uplift 8=-311(LC 13), 1=-269(LC 12)
Max Grav 8=1108(LC 1), 1=1108(LC 1)

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

| | |
|---|---|
| TOP CHORD | 1-2=-3742/1060, 2-3=-3708/1163, 3-4=-1637/396, 4-5=-1613/430, 5-6=-1204/327, 6-7=-1202/326, 7-8=-1050/326 |
| BOT CHORD | 1-12=-1175/3392, 11-12=-718/2136, 9-11=-410/1621 |
| WEBS | 3-12=-607/1627, 3-11=-871/412, 4-11=-289/1264, 5-11=-639/249, 5-9=-532/207, 6-9=-422/234, 7-9=-401/1487 |

**NOTES-** (8)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-8, Zone3 15-0-8 to 16-10-8, Zone1 16-10-8 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=311, 1=269.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 10,2025




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

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T09 | Half Hip | 1 | 1 | T36620366 |
| | | | | | Job Reference (optional) |

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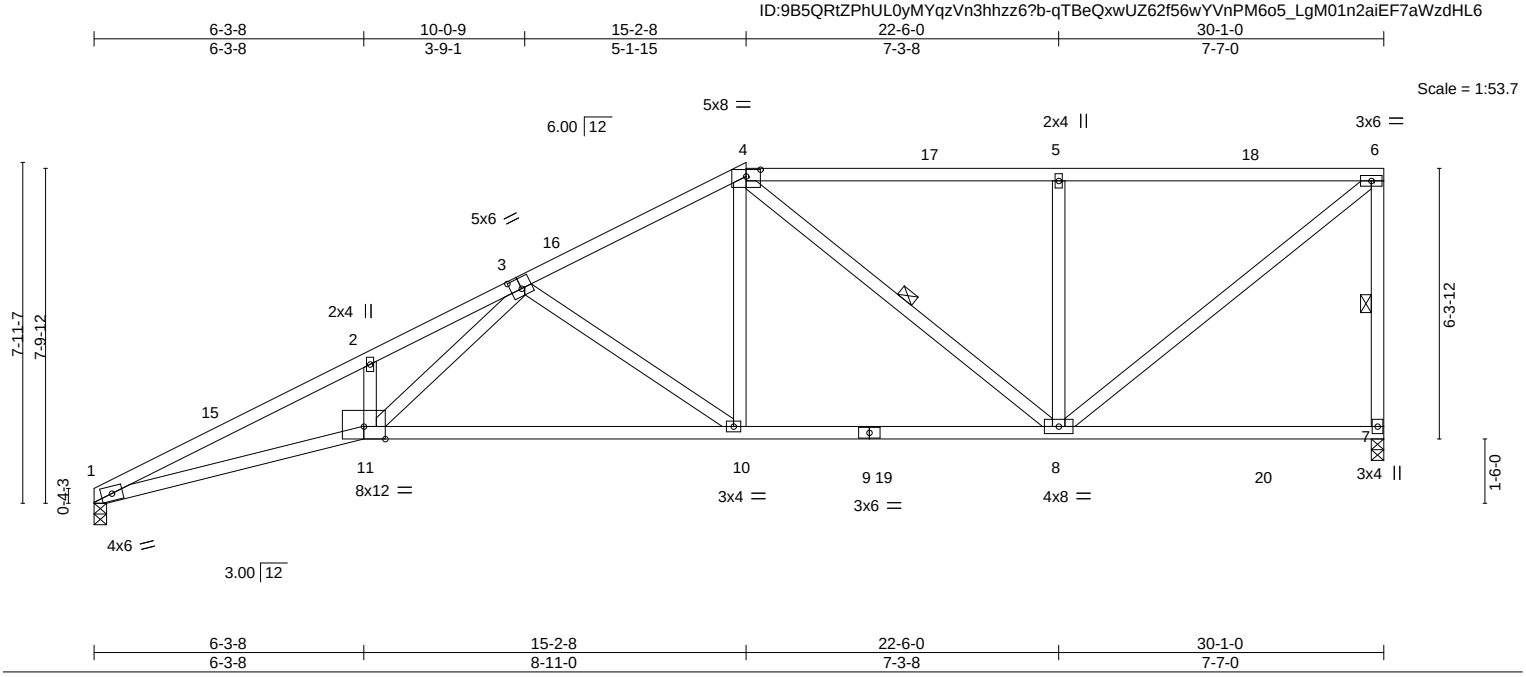





Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [4:0-4-0,0-1-15]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.69 | Vert(LL) | -0.35 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.66 | 10-11 | >540 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.19 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 164 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-7, 4-8

**REACTIONS.** (size) 7=0-3-8, 1=0-3-8
Max Horz 1=290(LC 12)
Max Uplift 7=-327(LC 9), 1=-265(LC 12)
Max Grav 7=1243(LC 2), 1=1203(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4067/1066, 2-3=-4029/1172, 3-4=-1806/394, 4-5=-1205/319, 5-6=-1204/317, 6-7=-1095/345
BOT CHORD 1-11=-1204/3712, 10-11=-726/2274, 8-10=-387/1557
WEBS 3-11=-627/1832, 3-10=-842/405, 4-10=-175/820, 4-8=-479/194, 5-8=-472/264, 6-8=-400/1520

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-2-8, Zone2 15-2-8 to 19-5-7, Zone1 19-5-7 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=327, 1=265.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 10,2025




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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T10 | Half Hip | 1 | 1 | T36620367 |
| | | | | | Job Reference (optional) |

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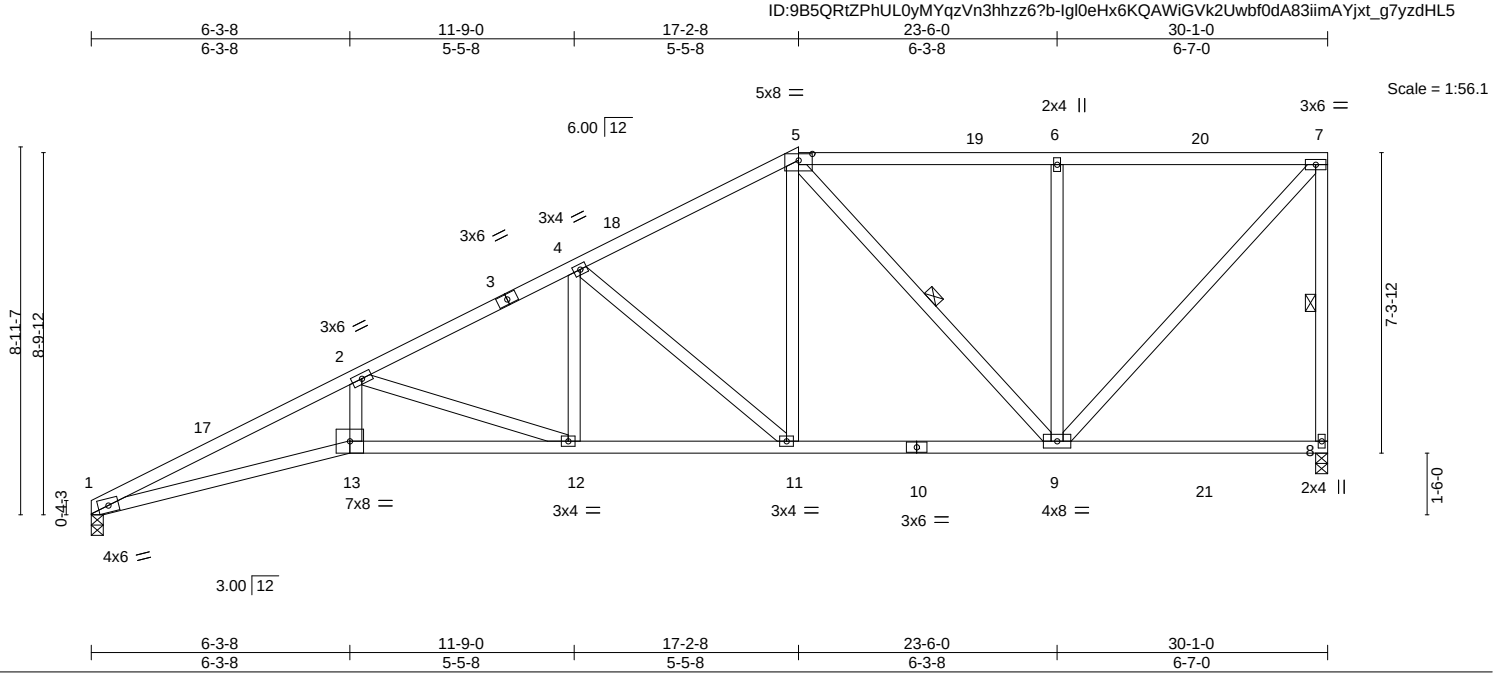


Plate Offsets (X,Y)-- [5:0-4-0,0-1-15]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.62 | Vert(LL) | -0.27 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 1.00 | Vert(CT) | -0.48 | 12-13 | >745 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.94 | Horz(CT) | 0.21 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 176 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-4-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 5-9

**REACTIONS.** (size) 8=0-3-8, 1=0-3-8
Max Horz 1=328(LC 12)
Max Uplift 8=-317(LC 9), 1=-269(LC 12)
Max Grav 8=1252(LC 2), 1=1202(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4059/1142, 2-4=-2294/568, 4-5=-1513/359, 5-6=-936/236, 6-7=-934/234, 7-8=-1124/332
BOT CHORD 1-13=-1316/3703, 12-13=-1247/3490, 11-12=-654/2012, 9-11=-354/1292
WEBS 2-13=-292/1059, 2-12=-1557/624, 4-12=-164/689, 4-11=-914/384, 5-11=-212/819, 5-9=-541/225, 6-9=-409/229, 7-9=-342/1363

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 17-2-8, Zone2 17-2-8 to 21-5-7, Zone1 21-5-7 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=317, 1=269.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 10,2025




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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T11 | Half Hip | 1 | 1 | T36620368 |
| | | | | | Job Reference (optional) |

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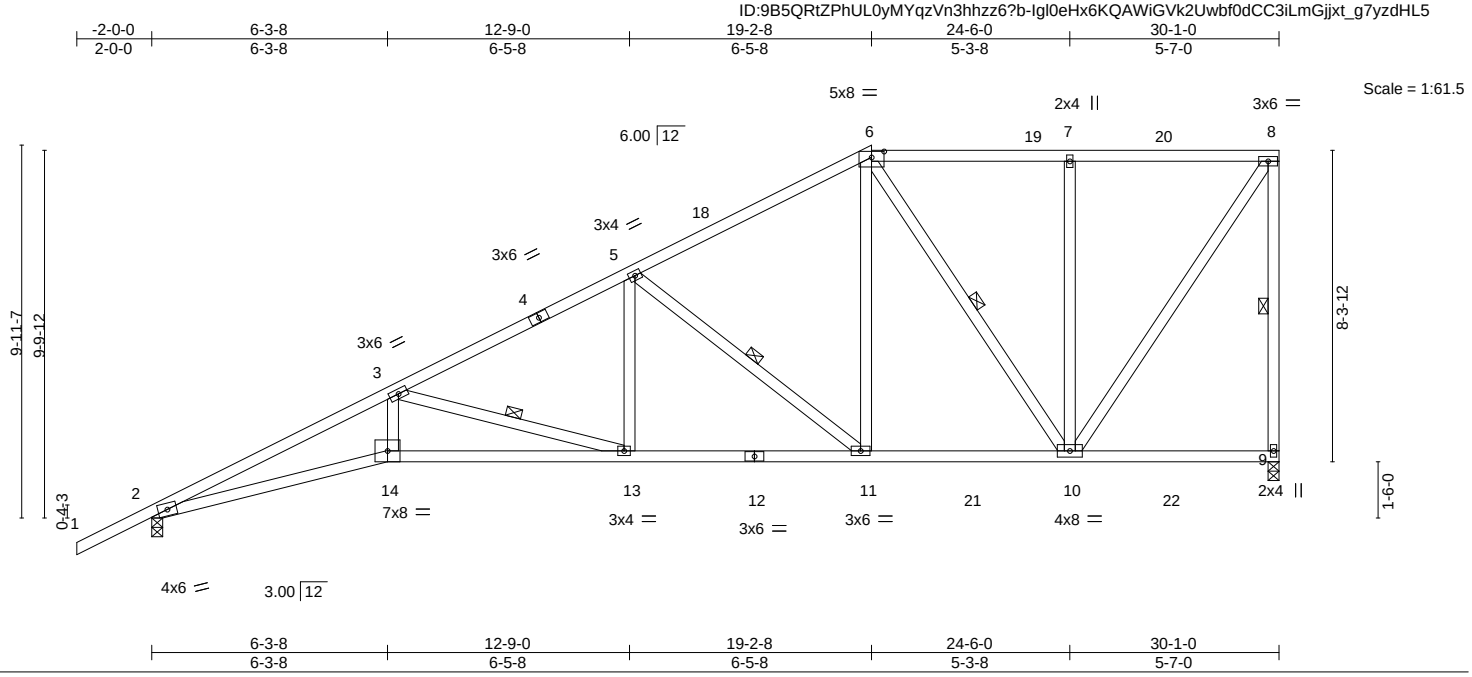


Plate Offsets (X,Y)-- [6:0-4-0,0-1-15]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.49 | Vert(LL) | -0.29 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.96 | Vert(CT) | -0.51 | 13-14 | >708 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.54 | Horz(CT) | 0.21 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 189 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* 12-14: 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 2-2-0 oc bracing. |
| WEBS | 1 Row at midpt 8-9, 3-13, 5-11, 6-10 |

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=400(LC 12)
Max Uplift 9=-305(LC 9), 2=-322(LC 12)
Max Grav 9=1248(LC 2), 2=1289(LC 2)

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

| | |
|---|---|
| TOP CHORD | 2-3=-4003/1156, 3-5=-2130/528, 5-6=-1266/307, 6-7=-711/174, 7-8=-710/173, 8-9=-1137/318 |
| BOT CHORD | 2-14=-1365/3648, 13-14=-1297/3439, 11-13=-648/1858, 10-11=-313/1059 |
| WEBS | 3-14=-293/1050, 3-13=-1641/673, 5-13=-142/692, 5-11=-994/420, 6-11=-224/836, 6-10=-636/256, 7-10=-345/193, 8-10=-307/1251 |

**NOTES-** (8)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 19-2-8, Zone2 19-2-8 to 23-5-7, Zone1 23-5-7 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=305, 2=322.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

March 10,2025




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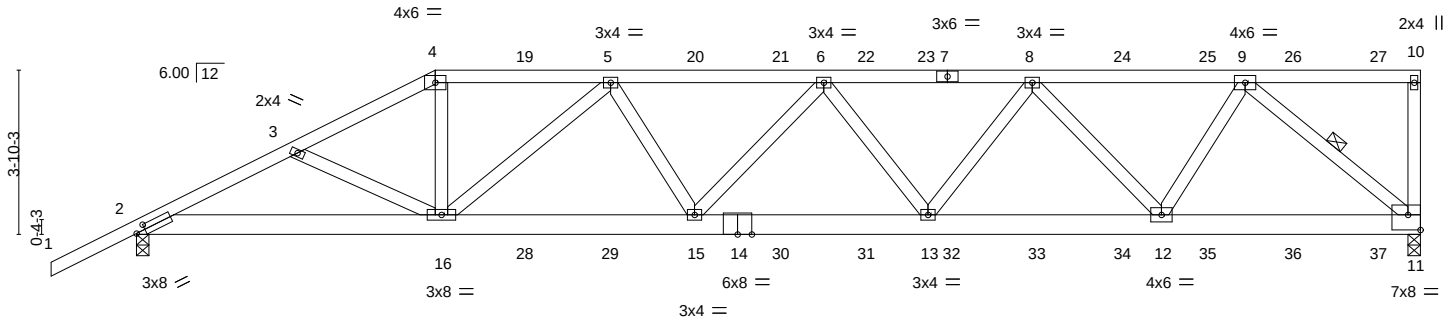
| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T13 | Half Hip Girder | 1 | 1 | T36620369 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:49 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-msJPrdyk5jINKP4wcCRqCDAIoT2PVgatAXkDfOzdHL4

| -2-0-0 | 3-9-4 | 7-0-0 | 11-1-5 | 16-1-4 | 20-11-14 | 25-11-11 | 30-1-0 |
|---|---|---|---|---|---|---|---|
| 2-0-0 | 3-9-4 | 3-2-12 | 4-1-5 | 4-11-15 | 4-10-10 | 4-11-14 | 4-1-5 |

Scale = 1:54.0




| 7-0-0 | 13-0-14 | 18-6-9 | 24-0-3 | 30-1-0 |
|---|---|---|---|---|
| 7-0-0 | 6-0-15 | 5-5-10 | 5-5-10 | 6-0-13 |

Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [11:Edge,0-4-4]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.82 | Vert(LL) | -0.26 | 13-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.49 | 13-15 | >728 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.76 | Horz(CT) | 0.13 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 185 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-14 oc bracing.
WEBS 1 Row at midpt 9-11

**REACTIONS.** (size) 11=0-3-8, 2=0-3-8
Max Horz 2=169(LC 8)
Max Uplift 11=-830(LC 5), 2=-696(LC 8)
Max Grav 11=2507(LC 1), 2=2186(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4303/1351, 3-4=-4128/1283, 4-5=-3726/1191, 5-6=-4984/1534, 6-8=-4773/1477, 8-9=-3224/978, 10-11=-319/189
BOT CHORD 2-16=-1295/3823, 15-16=-1530/4759, 13-15=-1626/5076, 12-13=-1376/4287, 11-12=-774/2361
WEBS 4-16=-376/1497, 5-16=-1417/520, 5-15=-41/505, 6-13=-526/294, 8-13=-210/845, 8-12=-1618/605, 9-12=-416/1755, 9-11=-3099/1017

**NOTES-** (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=830, 2=696.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 17-0-12, 106 lb down and 96 lb up at 19-0-12, 106 lb down and 100 lb up at 21-0-12, 106 lb down and 100 lb up at 23-0-12, 106 lb down and 100 lb up at 25-0-12, 106 lb down and 100 lb up at 27-0-12, and 109 lb down and 100 lb up at 29-0-12, and 135 lb down and 98 lb up at 29-11-4 on top chord, and 294 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 87 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard

Continued on page 2

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Chesterfield, MO 63017
Date:

March 10,2025



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**LOAD CASE(S)** Standard

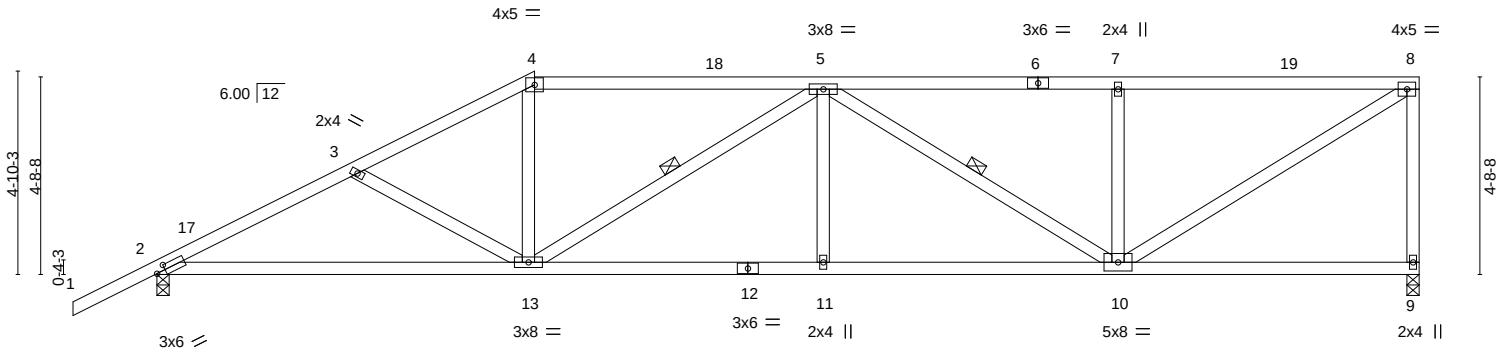
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-10=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 4=-106(B) 7=-106(B) 10=-135(B) 16=-285(B) 5=-106(B) 15=-61(B) 8=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 24=-106(B) 25=-106(B) 26=-106(B) 27=-109(B) 28=-61(B) 29=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 36=-61(B) 37=-62(B)

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T14 | Half Hip | 1 | 1 | T36620370 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:50 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-E2tn3zyMr1QDyZf7Avy3kRjXXtS6E8M0OBTnBrzdHL3

| -2-0-0 | 4-9-5 | 9-0-0 | 15-10-9 | 22-10-14 | 30-1-0 |
|---|---|---|---|---|---|
| 2-0-0 | 4-9-5 | 4-2-11 | 6-10-9 | 7-0-5 | 7-2-2 |

Scale = 1:54.9




| 9-0-0 | 15-10-9 | 22-10-14 | 30-1-0 |
|---|---|---|---|
| 9-0-0 | 6-10-9 | 7-0-5 | 7-2-2 |

Plate Offsets (X,Y)-- [2:0-2-9,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | -0.14 | 13-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.75 | Vert(CT) | -0.29 | 13-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.66 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 161 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-10

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=203(LC 12)
Max Uplift 9=-349(LC 9), 2=-279(LC 12)
Max Grav 9=1104(LC 1), 2=1219(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2044/503, 3-4=-1821/479, 4-5=-1579/448, 5-7=-1418/444, 7-8=-1418/444, 8-9=-1040/365
BOT CHORD 2-13=-511/1800, 11-13=-593/1925, 10-11=-593/1925
WEBS 4-13=-77/523, 5-13=-508/214, 5-11=0/260, 5-10=-598/177, 7-10=-405/227, 8-10=-513/1642

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=349, 2=279.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025




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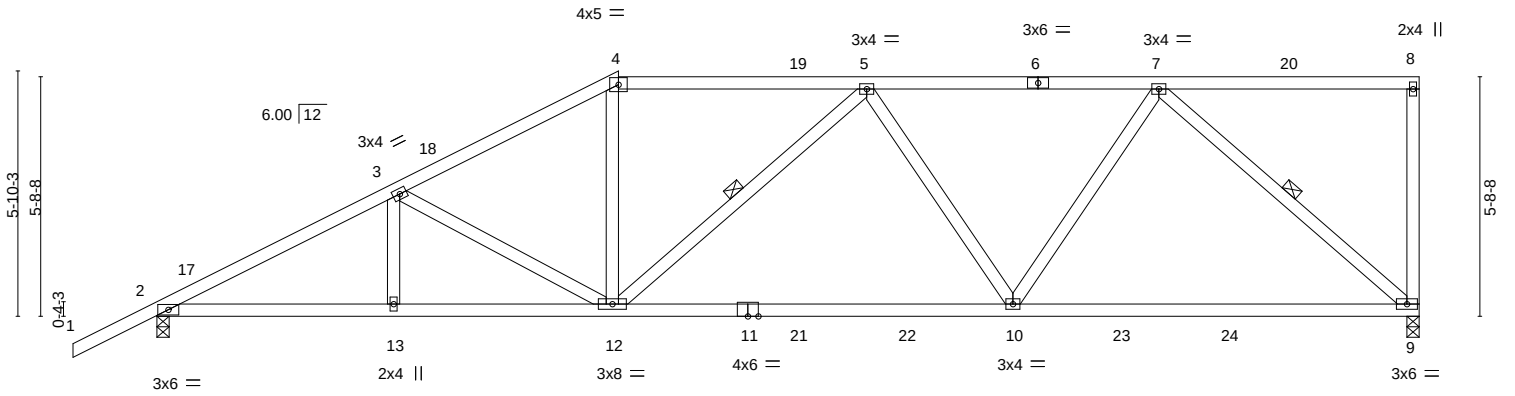
| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T15 | Half Hip | 1 | 1 | T36620371 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:51 2025 Page 1
ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-iFR9GJz_cLY4ZjEJkdUIHeFi5HmqzdcAdrDKkHzdHL2

| -2-0-0 | 5-7-11 | 11-0-0 | 16-11-0 | 23-10-9 | 30-1-0 |
|---|---|---|---|---|---|
| 2-0-0 | 5-7-11 | 5-4-5 | 5-11-0 | 6-11-9 | 6-2-7 |

Scale = 1:54.9




| 5-7-11 | 11-0-0 | 20-4-13 | 30-1-0 |
|---|---|---|---|
| 5-7-11 | 5-4-5 | 9-4-13 | 9-8-3 |

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.51 | Vert(LL) | -0.25 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.85 | Vert(CT) | -0.45 | 9-10 | >806 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.53 | Horz(CT) | 0.07 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 164 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* |
| | 9-11: 2x4 SP No.1 |
| WEBS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 3-8-13 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 8-2-9 oc bracing. |
| WEBS | 1 Row at midpt 5-12, 7-9 |

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=242(LC 12)
Max Uplift 9=-343(LC 9), 2=-295(LC 12)
Max Grav 9=1232(LC 2), 2=1298(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2243/438, 3-4=-1835/417, 4-5=-1586/394, 5-7=-1532/377
BOT CHORD 2-13=-516/1968, 12-13=-516/1968, 10-12=-469/1679, 9-10=-328/1109
WEBS 3-12=-434/221, 4-12=-67/571, 5-12=-253/150, 5-10=-347/169, 7-10=-91/783, 7-9=-1451/437

**NOTES-** (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=343, 2=295.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025




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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T16 | Half Hip | 1 | 1 | T36620372 |
| | | | | | Job Reference (optional) |

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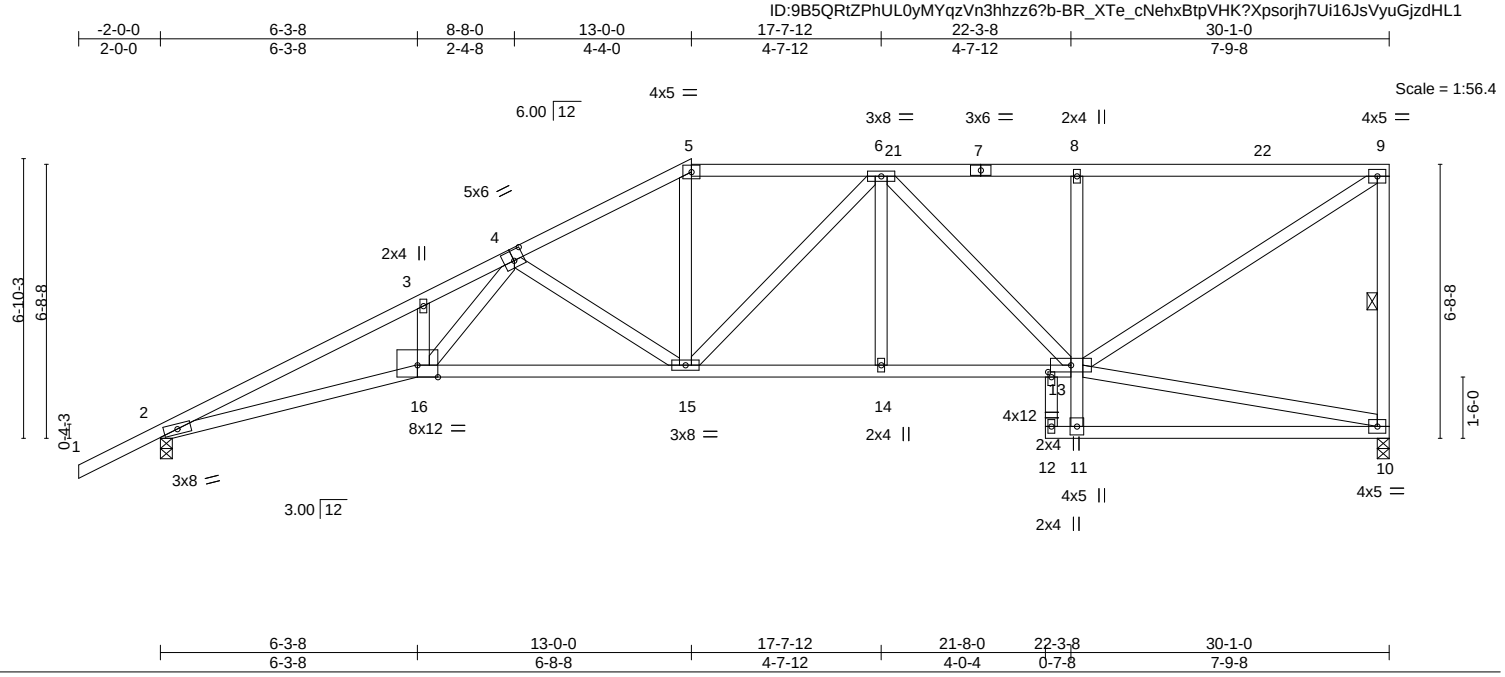


6-3-8 13-0-0 17-7-12 21-8-0 22-3-8 30-1-0
6-3-8 6-8-8 4-7-12 4-0-4 0-7-8 7-9-8

Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [17:0-1-8,0-1-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.65 | Vert(LL) | -0.22 | 15-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.82 | Vert(CT) | -0.45 | 15-16 | >803 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.22 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 188 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-11: 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-6-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-14 oc bracing. Except: 10-0-0 oc bracing: 11-13
WEBS 1 Row at midpt 9-10

**REACTIONS.** (size) 10=0-3-8, 2=0-3-8
Max Horz 2=280(LC 12)
Max Uplift 10=-332(LC 9), 2=-305(LC 12)
Max Grav 10=1115(LC 1), 2=1223(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3683/948, 3-4=-3623/1037, 4-5=-1920/478, 5-6=-1664/445, 6-8=-1323/390, 8-9=-1330/399, 9-10=-1038/356
BOT CHORD 2-16=-1049/3328, 15-16=-719/2377, 14-15=-469/1658, 13-14=-469/1658, 8-13=-385/216
WEBS 4-16=-486/1361, 4-15=-836/362, 5-15=-109/593, 6-13=-480/143, 9-13=-470/1567

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=332, 2=305.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 10,2025




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

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T17 | Half Hip | 1 | 1 | T36620373 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:53 2025 Page 1
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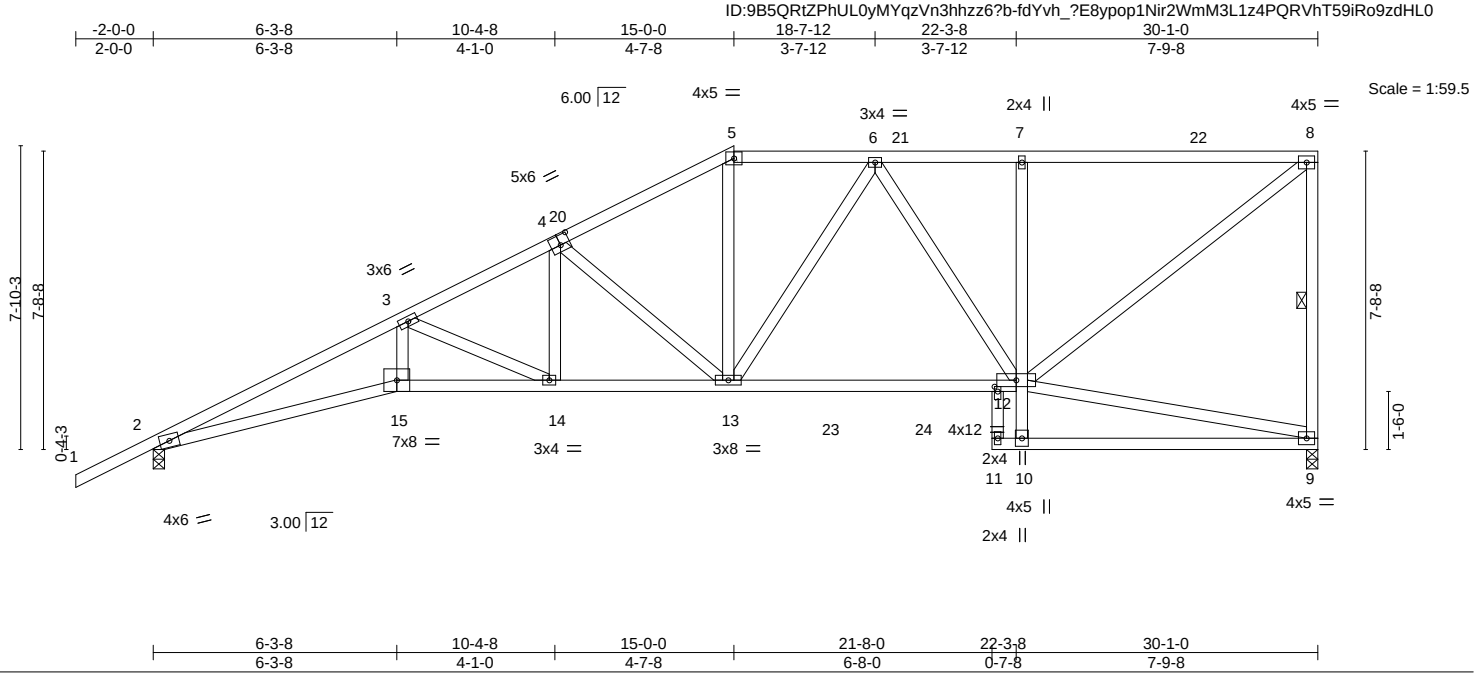





Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [16:0-1-8,0-1-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.62 | Vert(LL) | -0.27 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.48 | 12-13 | >754 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.69 | Horz(CT) | 0.24 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 194 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 10-12
WEBS 1 Row at midpt 8-9

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=319(LC 12)
Max Uplift 9=-324(LC 9), 2=-314(LC 12)
Max Grav 9=1222(LC 2), 2=1294(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3998/1028, 3-4=-2503/598, 4-5=-1804/395, 5-6=-1568/385, 6-7=-1221/312, 7-8=-1219/320, 8-9=-1095/347
BOT CHORD 2-15=-1163/3640, 14-15=-1103/3434, 13-14=-648/2202, 12-13=-366/1437, 7-12=-382/214
WEBS 3-15=-253/1021, 3-14=-1333/494, 4-13=-818/344, 5-13=-81/608, 6-13=-121/291, 6-12=-399/161, 8-12=-401/1531, 4-14=-183/662

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=324, 2=314.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025




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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T18 | Half Hip | 1 | 1 | T36620374 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:53 2025 Page 1
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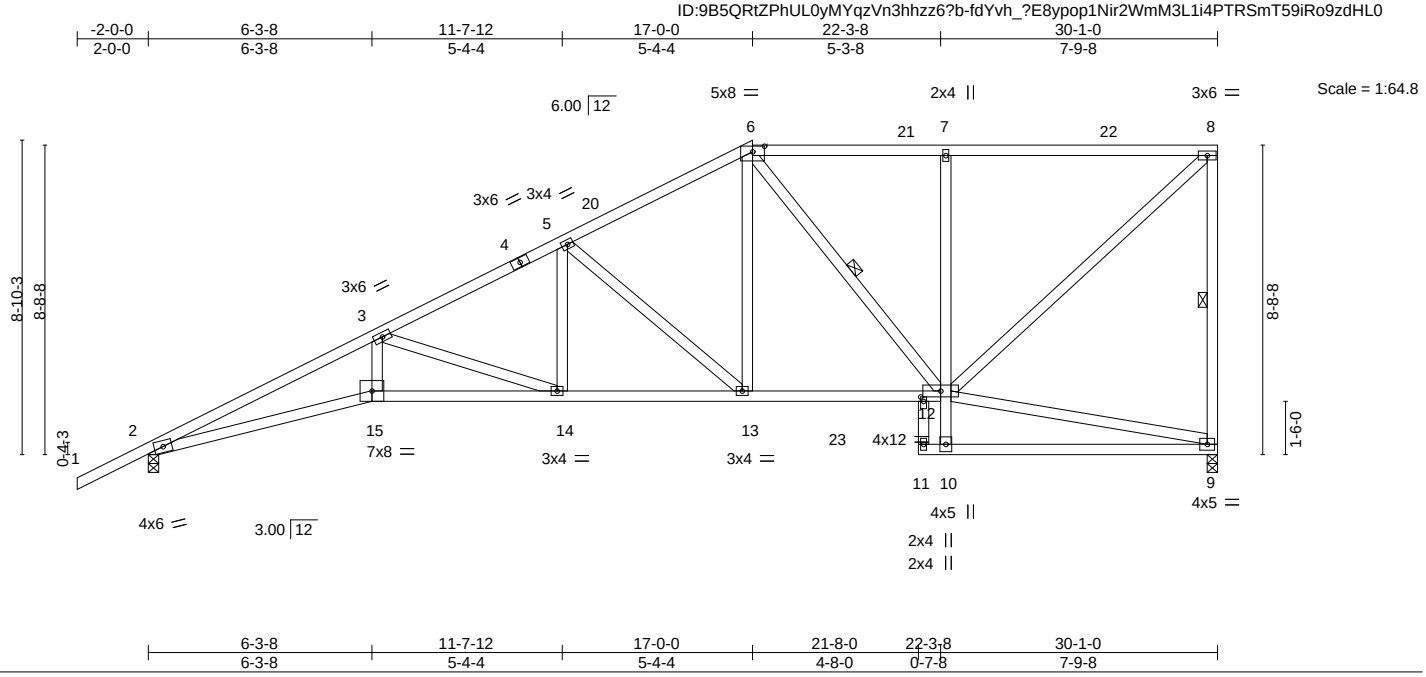


Plate Offsets (X,Y)-- [6:0-4-0,0-1-15], [16:0-1-8,0-1-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.64 | Vert(LL) | -0.27 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.48 | 14-15 | >748 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.88 | Horz(CT) | 0.25 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 197 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:
10-0-0 oc bracing: 10-12
WEBS 1 Row at midpt 8-9, 6-12

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=357(LC 12)
Max Uplift 9=-314(LC 9), 2=-319(LC 12)
Max Grav 9=1222(LC 2), 2=1295(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4013/1094, 3-5=-2304/558, 5-6=-1537/356, 6-7=-1041/262, 7-8=-1039/265, 8-9=-1089/337
BOT CHORD 2-15=-1263/3655, 14-15=-1199/3448, 13-14=-643/2023, 12-13=-350/1313, 7-12=-426/238
WEBS 3-15=-273/1038, 3-14=-1504/587, 5-14=-158/677, 5-13=-904/376, 6-13=-206/815, 6-12=-468/195, 8-12=-355/1394

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=314, 2=319.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Chesterfield, MO 63017
Date:

March 10,2025




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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T19 | Half Hip | 1 | 1 | T36620375 |
| | | | | | Job Reference (optional) |

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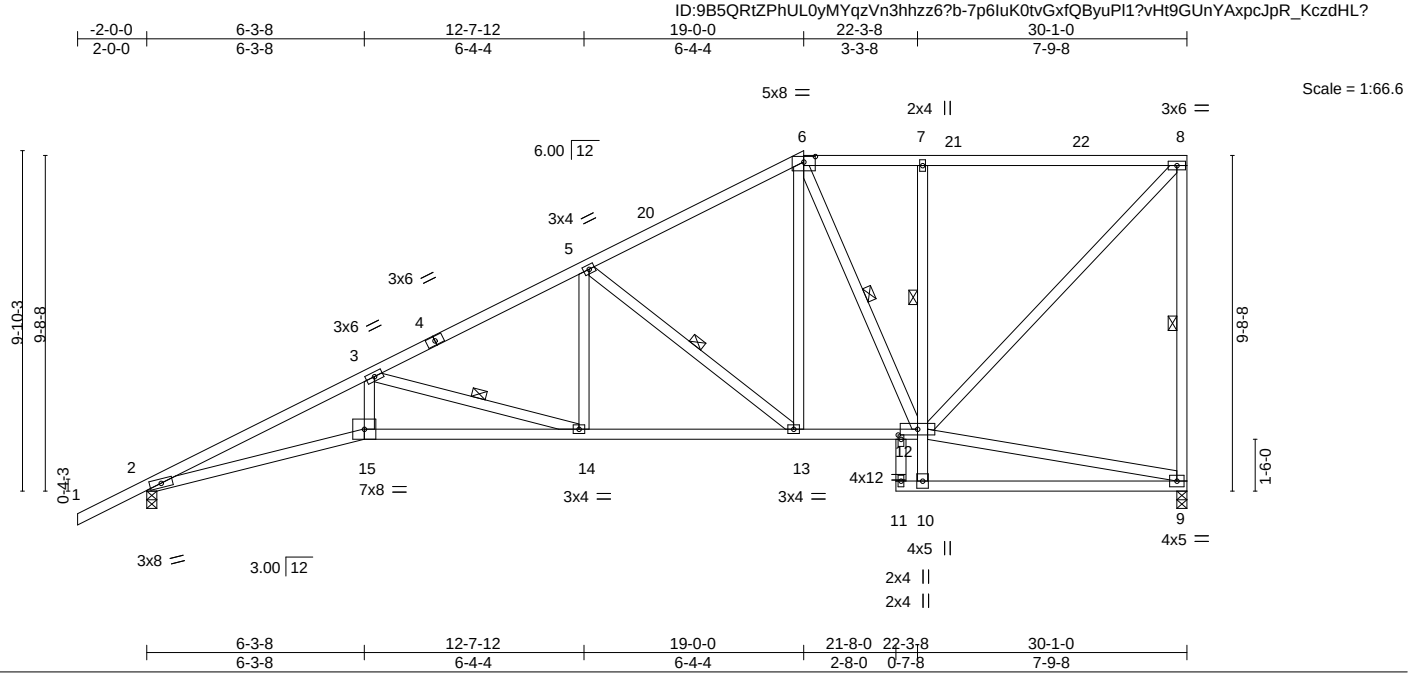


Plate Offsets (X,Y)-- [6:0-4-0,0-1-15], [16:0-1-8,0-1-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.77 | Vert(LL) | 0.24 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.85 | Vert(CT) | -0.46 | 14-15 | >774 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.23 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 206 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-10: 2x4 SP No.3
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-5 oc bracing. Except:
1 Row at midpt 7-12
10-0-0 oc bracing: 10-12
WEBS 1 Row at midpt 8-9, 3-14, 5-13, 6-12

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=396(LC 12)
Max Uplift 9=-303(LC 9), 2=-321(LC 12)
Max Grav 9=1115(LC 1), 2=1223(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3712/1146, 3-5=-1993/528, 5-6=-1193/309, 6-7=-823/232, 7-8=-826/233, 8-9=-1038/327
BOT CHORD 2-15=-1352/3360, 14-15=-1284/3179, 13-14=-645/1726, 12-13=-314/981, 7-12=-394/219
WEBS 3-15=-291/899, 3-14=-1511/663, 5-14=-143/585, 5-13=-930/415, 6-13=-223/679, 6-12=-404/209, 8-12=-338/1185

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=303, 2=321.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

March 10,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T20 | Half Hip | 2 | 1 | T36620376 |
| | | | | | Job Reference (optional) |

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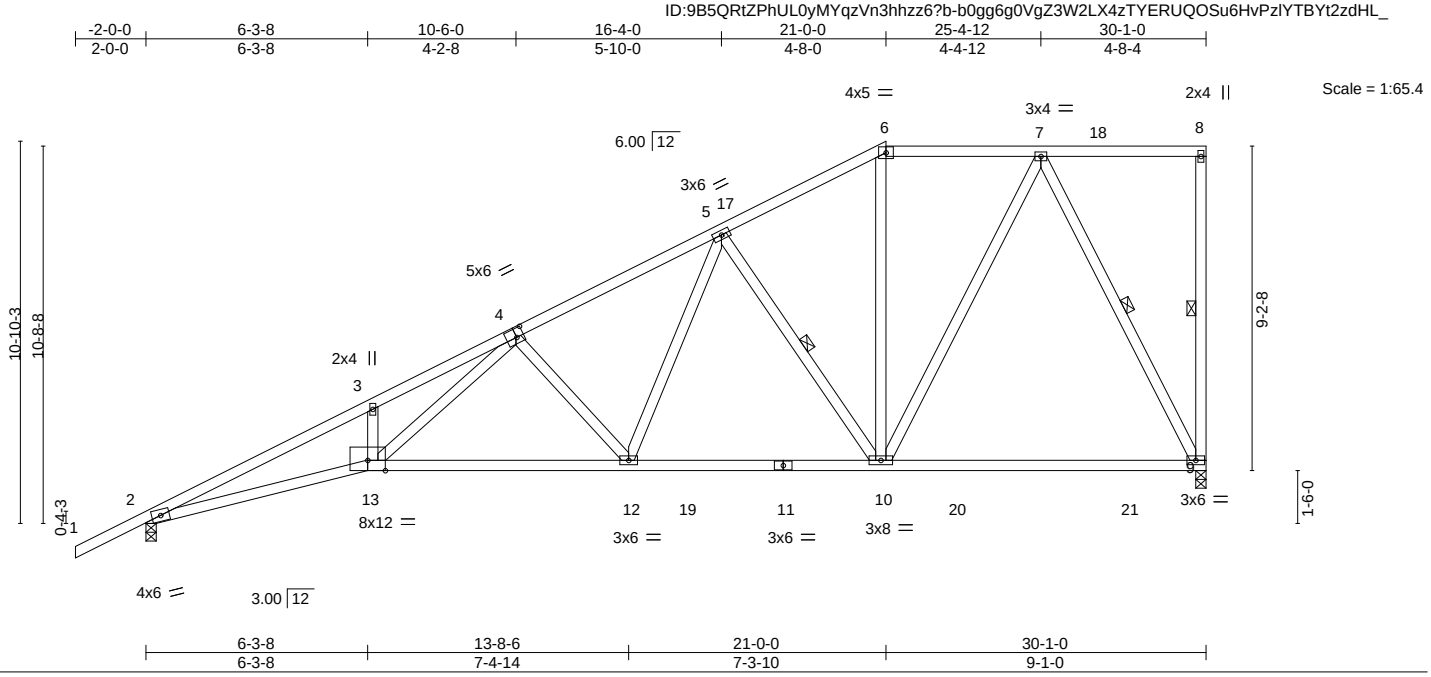


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.55 | Vert(LL) | -0.34 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.94 | Vert(CT) | -0.59 | 12-13 | >606 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.20 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 191 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 8-9, 5-10, 7-9

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8
Max Horz 2=435(LC 12)
Max Uplift 9=-305(LC 12), 2=-320(LC 12)
Max Grav 9=1265(LC 2), 2=1303(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4041/1161, 3-4=-4003/1269, 4-5=-1975/508, 5-6=-1082/272, 6-7=-923/273
BOT CHORD 2-13=-1403/3683, 12-13=-842/2199, 10-12=-490/1385, 9-10=-153/527
WEBS 4-13=-714/1843, 4-12=-743/387, 5-12=-271/902, 5-10=-820/389, 6-10=-35/295, 7-10=-261/870, 7-9=-1131/340

**NOTES-** (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 21-0-0, Zone2 21-0-0 to 25-4-12, Zone1 25-4-12 to 29-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=305, 2=320.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Date:

March 10,2025



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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T21 | HIP GIRDER | 1 | 1 | T36620377 |
| | | | | | Job Reference (optional) |

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-2-0-0 5-0-0 9-0-0 14-0-0 16-0-0
2-0-0 5-0-0 4-0-0 5-0-0 2-0-0

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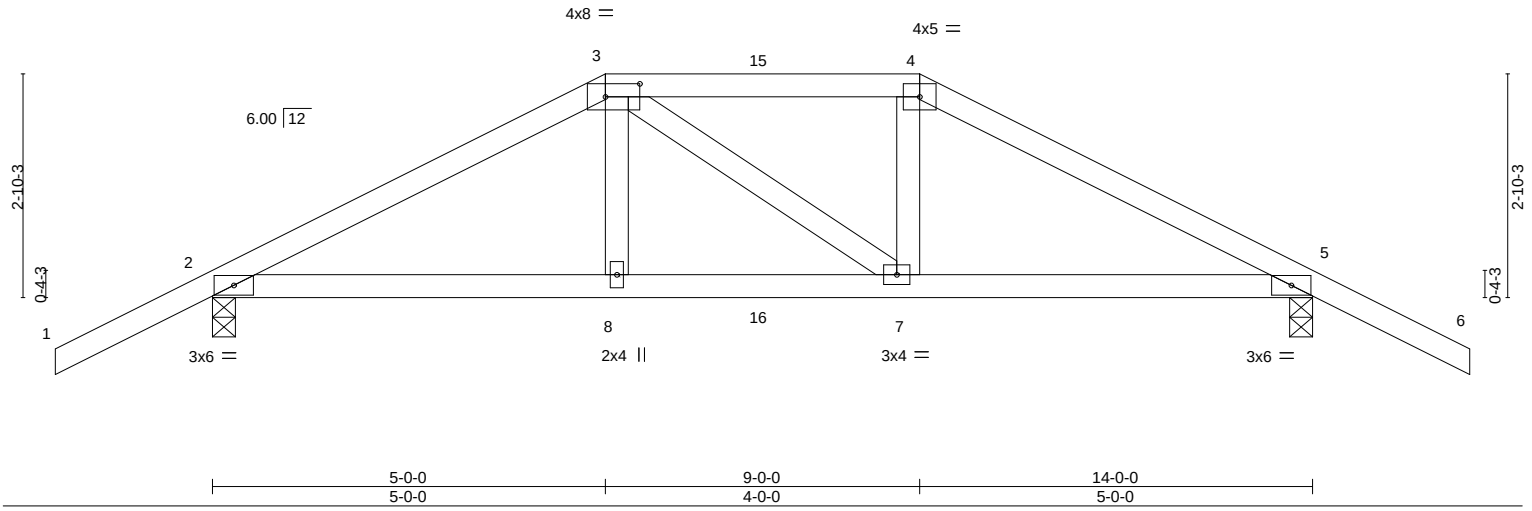


5-0-0 9-0-0 14-0-0
5-0-0 4-0-0 5-0-0

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | 0.04 | 7-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.36 | Vert(CT) | -0.05 | 8-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.11 | Horz(CT) | 0.02 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FRC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 63 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-0-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-6-5 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 5=0-3-8
Max Horz 2=59(LC 12)
Max Uplift 2=-337(LC 5), 5=-350(LC 4)
Max Grav 2=811(LC 1), 5=829(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1179/563, 3-4=-1049/552, 4-5=-1220/592
BOT CHORD 2-8=-471/1005, 7-8=-475/1015, 5-7=-478/1041
WEBS 3-8=-72/302, 4-7=-49/290

**NOTES-** (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 5=350.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 77 lb up at 5-0-0, and 54 lb down and 68 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 153 lb down and 54 lb up at 5-0-0, and 63 lb down at 7-0-0, and 153 lb down and 54 lb up at 8-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20
Concentrated Loads (lb)
Vert: 3=-54(F) 4=-119(F) 8=-64(F) 7=-64(F) 15=-54(F) 16=-33(F)

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

March 10,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T22 | COMMON | 3 | 1 | T36620378 |

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:56 2025 Page 1

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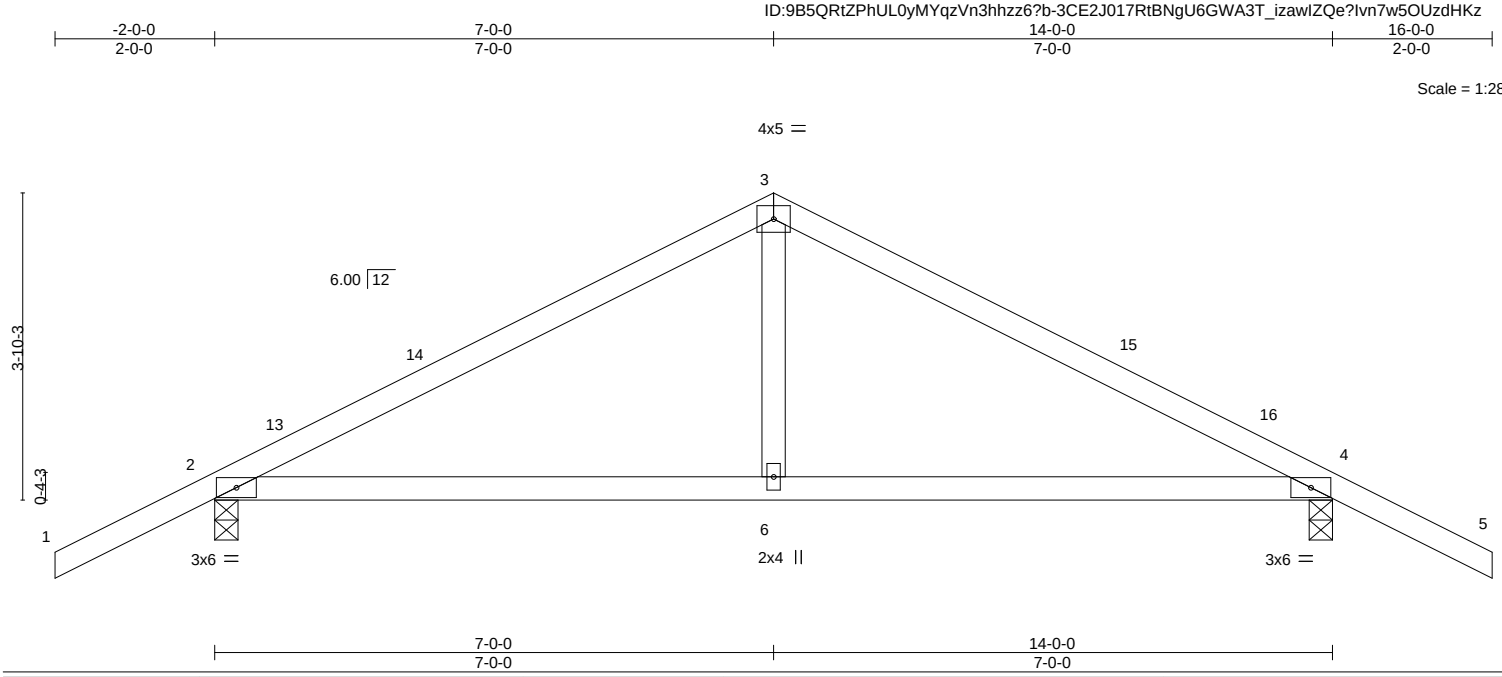


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.51 | Vert(LL) | 0.09 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.12 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.01 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 56 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (size) 2=0-3-8, 4=0-3-8
Max Horz 2=75(LC 12)
Max Uplift 2=-185(LC 12), 4=-185(LC 13)
Max Grav 2=626(LC 1), 4=626(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-705/413, 3-4=-705/413
BOT CHORD 2-6=-248/562, 4-6=-248/562
WEBS 3-6=-158/320

**NOTES-** (6)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 4=185.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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| Job | Truss | Truss Type | Qty | Ply | GIEBEIG - LOT 53 CW |
|---|---|---|---|---|---|
| 4525744 | T23 | Monopitch | 3 | 1 | T36620379 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Fri Mar 7 14:46:57 2025 Page 1
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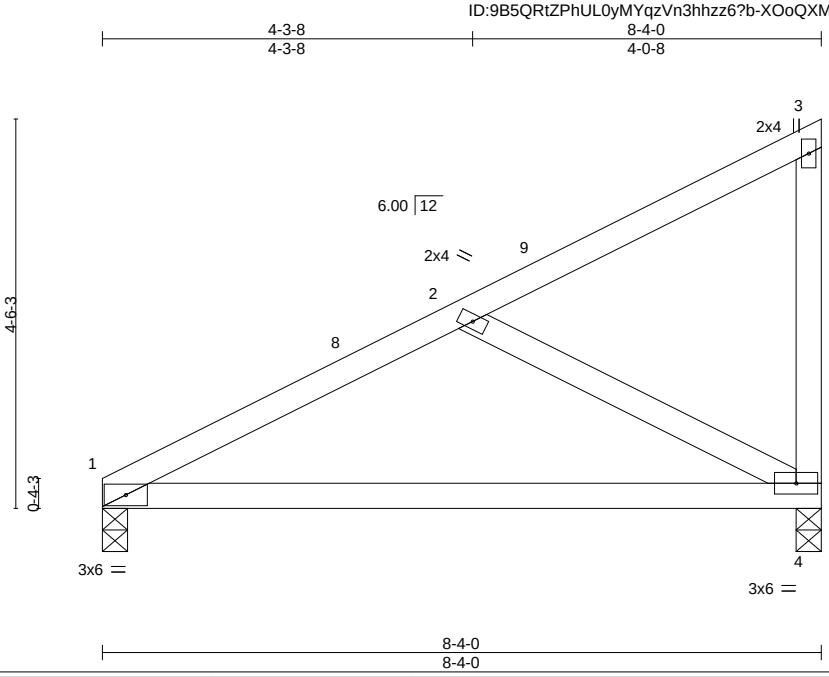


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.48 | Vert(LL) | 0.13 | 4-7 | >780 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.23 | 4-7 | >427 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code | FRC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 39 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=0-3-8, 4=0-3-8
Max Horz 1=158(LC 12)
Max Uplift 1=-88(LC 9), 4=-139(LC 12)
Max Grav 1=303(LC 1), 4=303(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-349/159
BOT CHORD 1-4=-299/307
WEBS 2-4=-328/316

**NOTES-** (6)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=139.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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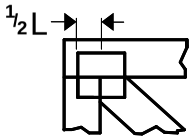
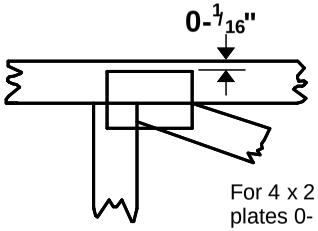
# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

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

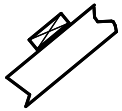
* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

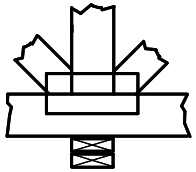
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING

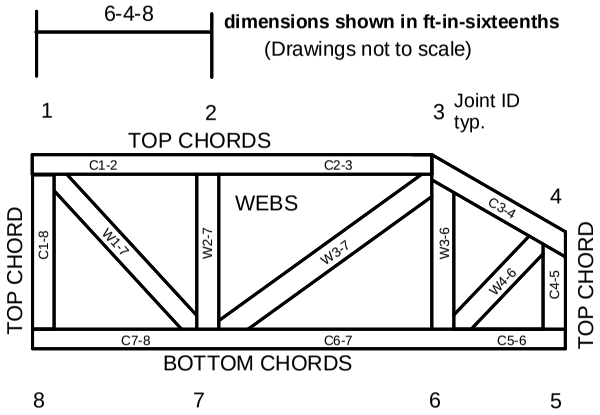


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

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

# Numbering System




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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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



MiTek®



# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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