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

RE: 4460922 - RAYMONT RES.

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

**Site Information:**

Customer Info: IC CONSTRUCTION Project Name: Raymont Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

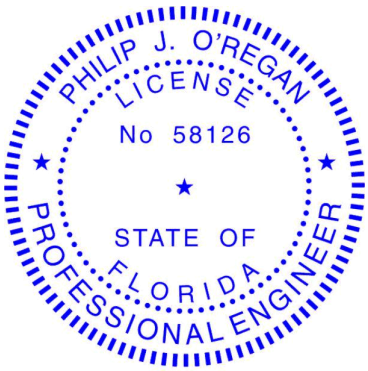
This package includes 59 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | T36312923 | CJ02 | 2/10/25 | 15 | T36312937 | T01G | 2/10/25 |
| 2 | T36312924 | CJ02A | 2/10/25 | 16 | T36312938 | T02 | 2/10/25 |
| 3 | T36312925 | CJ04 | 2/10/25 | 17 | T36312939 | T02G | 2/10/25 |
| 4 | T36312926 | CJ05 | 2/10/25 | 18 | T36312940 | T03 | 2/10/25 |
| 5 | T36312927 | CJ07 | 2/10/25 | 19 | T36312941 | T04 | 2/10/25 |
| 6 | T36312928 | EJ01 | 2/10/25 | 20 | T36312942 | T05 | 2/10/25 |
| 7 | T36312929 | EJ02 | 2/10/25 | 21 | T36312943 | T05G | 2/10/25 |
| 8 | T36312930 | EJ03 | 2/10/25 | 22 | T36312944 | T06 | 2/10/25 |
| 9 | T36312931 | HJ09 | 2/10/25 | 23 | T36312945 | T07 | 2/10/25 |
| 10 | T36312932 | PB01 | 2/10/25 | 24 | T36312946 | T08 | 2/10/25 |
| 11 | T36312933 | PB02 | 2/10/25 | 25 | T36312947 | T09 | 2/10/25 |
| 12 | T36312934 | PB03 | 2/10/25 | 26 | T36312948 | T10 | 2/10/25 |
| 13 | T36312935 | PB04 | 2/10/25 | 27 | T36312949 | T11 | 2/10/25 |
| 14 | T36312936 | T01 | 2/10/25 | 28 | T36312950 | T12 | 2/10/25 |


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

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

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




Philip J. O'Regan PE No.58126
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.

February 10,2025

RE: 4460922 - RAYMONT RES.

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

**Site Information:**

Customer Info: IC CONSTRUCTION Project Name: Raymont Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

| No. | Seal# | Truss Name | Date |
|---|---|---|---|
| 29 | T36312951 | T13 | 2/10/25 |
| 30 | T36312952 | T13G | 2/10/25 |
| 31 | T36312953 | T14 | 2/10/25 |
| 32 | T36312954 | T15 | 2/10/25 |
| 33 | T36312955 | T16 | 2/10/25 |
| 34 | T36312956 | T17 | 2/10/25 |
| 35 | T36312957 | T18 | 2/10/25 |
| 36 | T36312958 | T19 | 2/10/25 |
| 37 | T36312959 | T20 | 2/10/25 |
| 38 | T36312960 | T21 | 2/10/25 |
| 39 | T36312961 | T22 | 2/10/25 |
| 40 | T36312962 | T23 | 2/10/25 |
| 41 | T36312963 | T24 | 2/10/25 |
| 42 | T36312964 | T25 | 2/10/25 |
| 43 | T36312965 | T26 | 2/10/25 |
| 44 | T36312966 | T26G | 2/10/25 |
| 45 | T36312967 | T27 | 2/10/25 |
| 46 | T36312968 | T28 | 2/10/25 |
| 47 | T36312969 | T29 | 2/10/25 |
| 48 | T36312970 | V01 | 2/10/25 |
| 49 | T36312971 | V02 | 2/10/25 |
| 50 | T36312972 | V03 | 2/10/25 |
| 51 | T36312973 | V04 | 2/10/25 |
| 52 | T36312974 | V05 | 2/10/25 |
| 53 | T36312975 | V06 | 2/10/25 |
| 54 | T36312976 | V07 | 2/10/25 |
| 55 | T36312977 | V08 | 2/10/25 |
| 56 | T36312978 | V09 | 2/10/25 |
| 57 | T36312979 | V10 | 2/10/25 |
| 58 | T36312980 | V11 | 2/10/25 |
| 59 | T36312981 | V12 | 2/10/25 |

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312923 |
|---|---|---|---|---|---|
| 4460922 | CJ02 | Jack-Open | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:20 2025 Page 1
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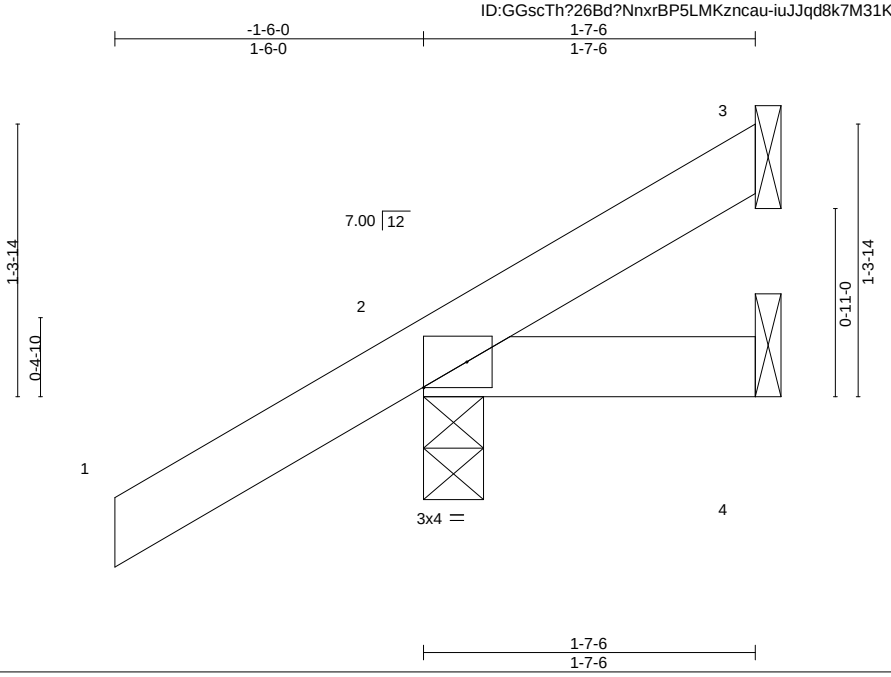


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.27 | 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 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 8 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 1-7-6 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=84(LC 12)
Max Uplift 3=-21(LC 12), 2=-97(LC 12)
Max Grav 3=24(LC 19), 2=178(LC 1), 4=23(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. |
|---|---|---|---|---|---|
| 4460922 | CJ02A | Jack-Open | 1 | 1 | T36312924 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:20 2025 Page 1
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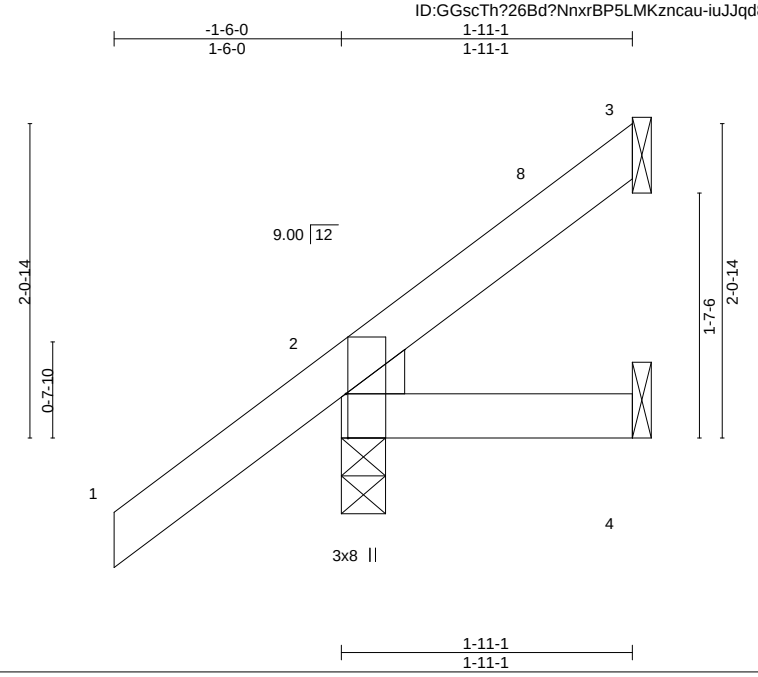


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

| 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 | 0.34 | Vert(LL) | -0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | -0.00 | 7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 10 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 1-11-1 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=119(LC 12)
Max Uplift 3=-44(LC 12), 2=-74(LC 12), 4=-1(LC 12)
Max Grav 3=39(LC 19), 2=183(LC 1), 4=30(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 1-10-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312925 |
|---|---|---|---|---|---|
| 4460922 | CJ04 | Jack-Open | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:20 2025 Page 1
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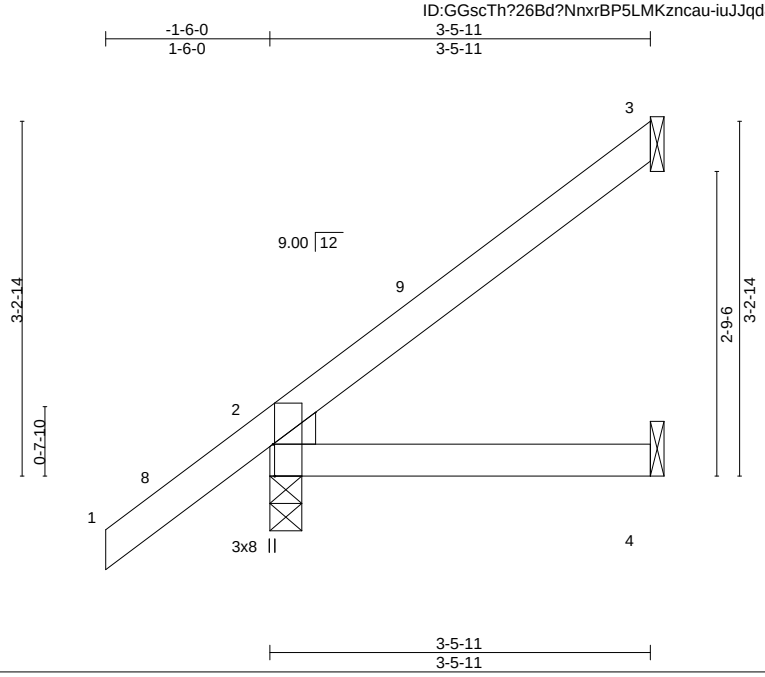


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

| 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 | 0.34 | Vert(LL) | -0.01 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.19 | Vert(CT) | -0.02 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 15 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-5-11 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=175(LC 12)
Max Uplift 3=-94(LC 12), 2=-67(LC 12), 4=-11(LC 12)
Max Grav 3=89(LC 19), 2=225(LC 1), 4=60(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-4-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 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 | RAYMONT RES. T36312926 |
|---|---|---|---|---|---|
| 4460922 | CJ05 | Jack-Open | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:21 2025 Page 1
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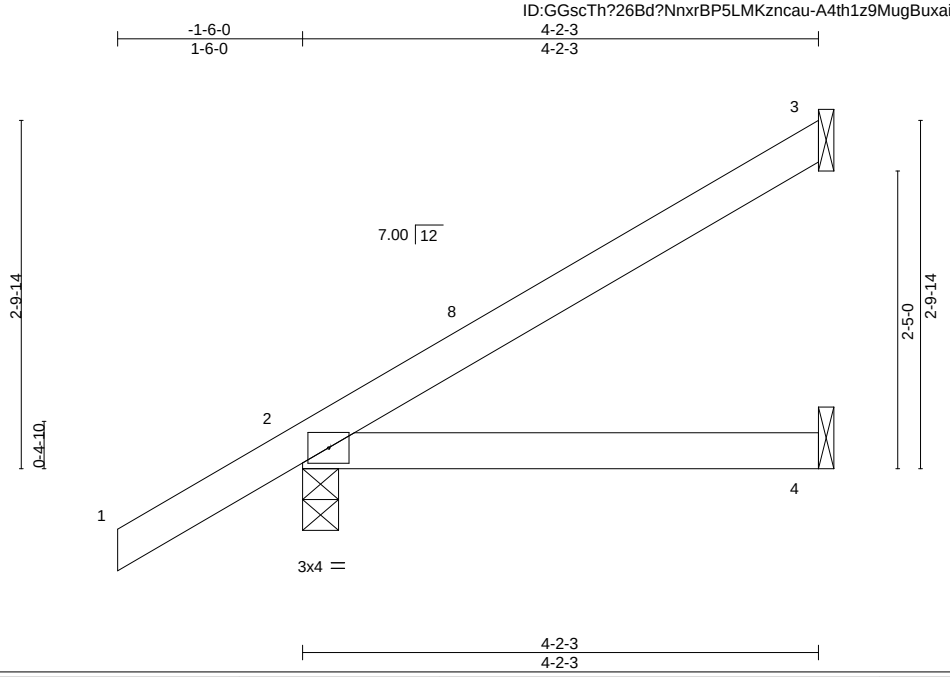


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.27 | Vert(LL) | 0.02 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.21 | Vert(CT) | -0.03 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 16 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-2-3 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=157(LC 12)
Max Uplift 3=-93(LC 12), 2=-100(LC 12), 4=-4(LC 12)
Max Grav 3=106(LC 19), 2=248(LC 1), 4=73(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-1-7 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312927 |
|---|---|---|---|---|---|
| 4460922 | CJ07 | Jack-Open | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:21 2025 Page 1
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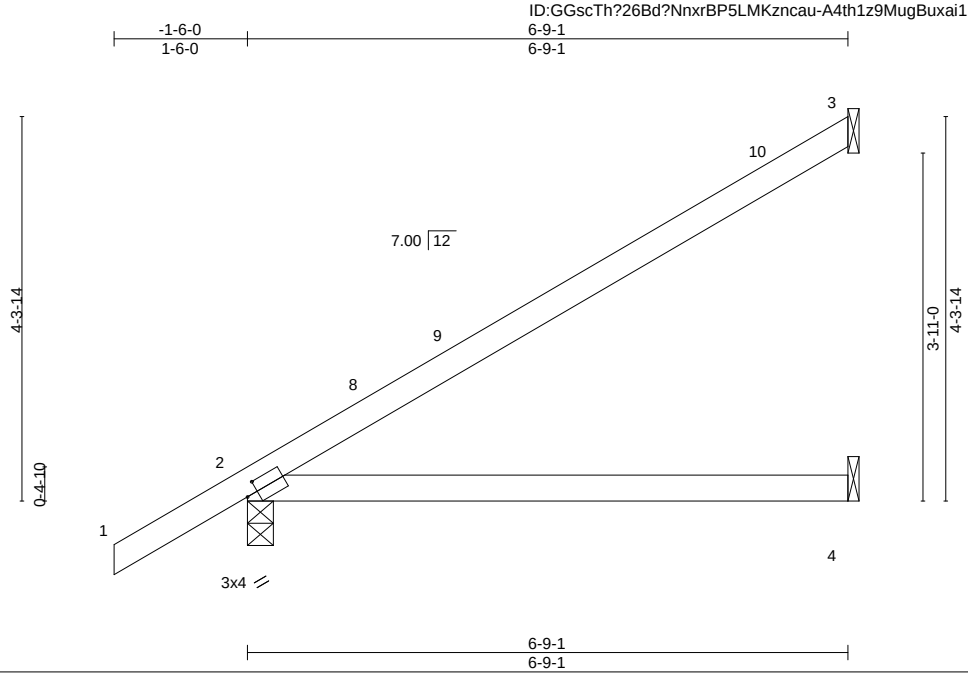


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

| 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 | 0.81 | Vert(LL) | 0.14 | 4-7 | >576 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.55 | Vert(CT) | -0.19 | 4-7 | >424 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 25 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-0 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=226(LC 12)
Max Uplift 3=-146(LC 12), 2=-122(LC 12), 4=-10(LC 12)
Max Grav 3=180(LC 19), 2=338(LC 1), 4=122(LC 3)

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

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-8-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=146, 2=122.

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Date:

February 10,2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312928 |
|---|---|---|---|---|---|
| 4460922 | EJ01 | Jack-Partial | 10 | 1 | Job Reference (optional) |

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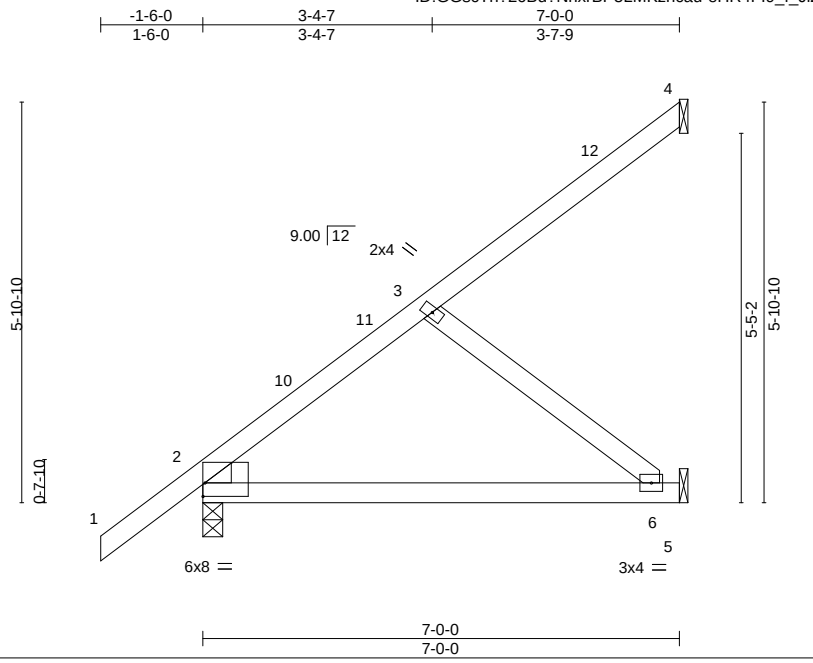


Plate Offsets (X,Y)-- [2:Edge,0-2-6]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.33 | Vert(LL) | -0.07 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.42 | Vert(CT) | -0.15 | 6-9 | >561 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 33 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 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=0-3-8, 5=Mechanical
Max Horz 2=296(LC 12)
Max Uplift 4=-85(LC 12), 2=-80(LC 12), 5=-118(LC 12)
Max Grav 4=93(LC 19), 2=346(LC 1), 5=196(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-6=-264/203
WEBS 3-6=-259/336

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2 except (jt=lb) 5=118.

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February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312929 |
|---|---|---|---|---|---|
| 4460922 | EJ02 | Half Hip | 1 | 1 | Job Reference (optional) |

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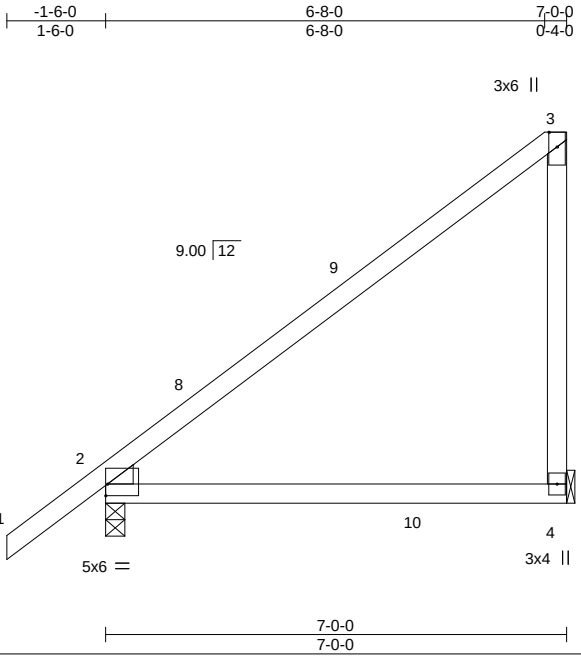


Plate Offsets (X,Y)-- [2:Edge,0-2-2]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.73 | Vert(LL) | 0.15 | 4-7 | >550 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.53 | Vert(CT) | -0.20 | 4-7 | >407 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 35 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 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) 4=Mechanical, 2=0-3-8
Max Horz 2=304(LC 12)
Max Uplift 4=-221(LC 12), 2=-73(LC 12)
Max Grav 4=364(LC 19), 2=380(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-188/325

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=221.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312930 |
|---|---|---|---|---|---|
| 4460922 | EJ03 | Half Hip Girder | 1 | 1 | Job Reference (optional) |

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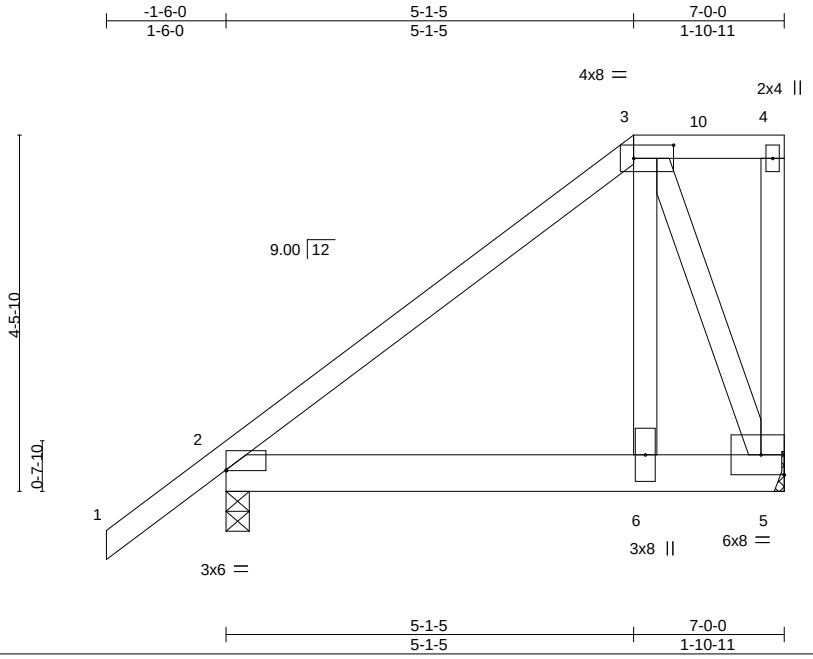


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [3:0-6-0,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.28 | Vert(LL) | 0.02 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.16 | Vert(CT) | -0.02 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.21 | Horz(CT) | -0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 49 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 5=Mechanical
Max Horz 2=241(LC 8)
Max Uplift 2=-200(LC 8), 5=-409(LC 8)
Max Grav 2=436(LC 1), 5=536(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-348/133
WEBS 3-6=-177/422, 3-5=-602/467

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 5=409.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 207 lb down and 225 lb up at 5-1-5 on top chord, and 269 lb down and 181 lb up at 5-1-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-240(F) 3=-144(F)

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312931 |
|---|---|---|---|---|---|
| 4460922 | HJ09 | Diagonal Hip Girder | 1 | 1 | Job Reference (optional) |

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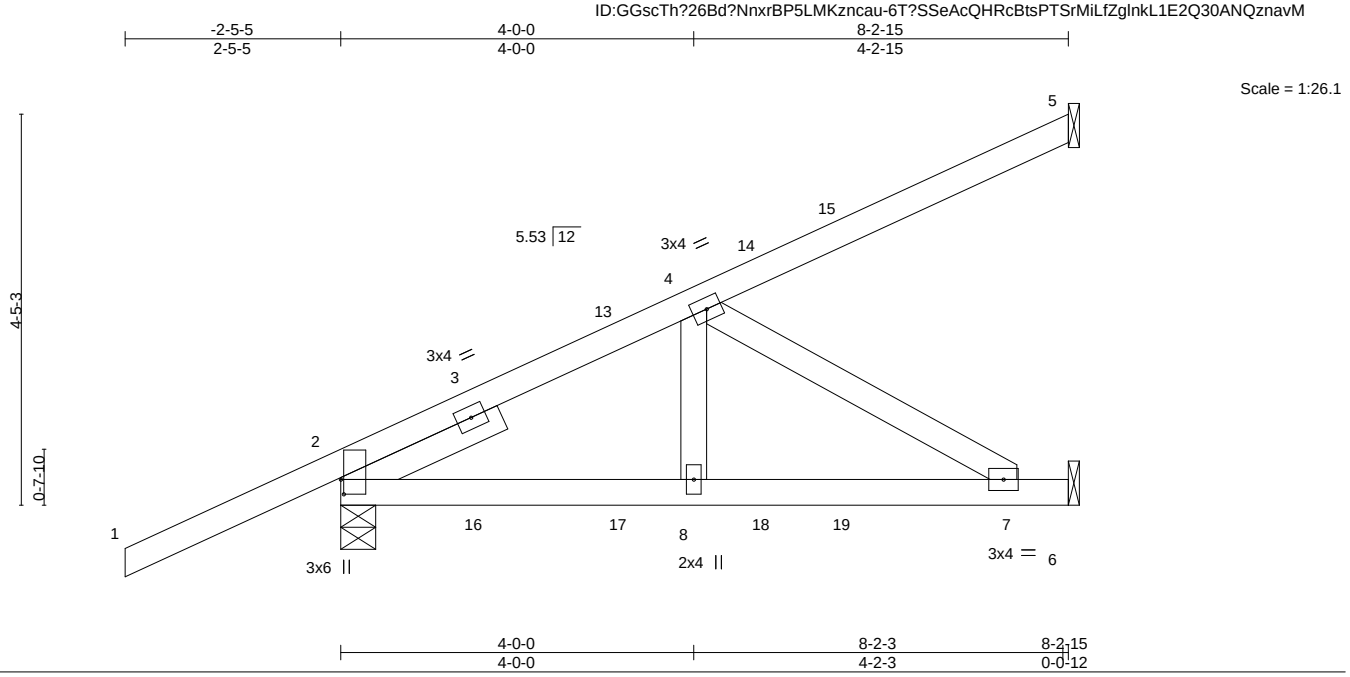


Plate Offsets (X,Y)-- [2:0-2-0,0-0-6]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | 0.04 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.36 | Vert(CT) | -0.05 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.16 | Horz(CT) | -0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 42 lb | FT = 20% |

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

**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) 5=Mechanical, 2=0-4-12, 6=Mechanical
Max Horz 2=236(LC 25)
Max Uplift 5=-219(LC 8), 2=-229(LC 8), 6=-156(LC 8)
Max Grav 5=216(LC 34), 2=460(LC 1), 6=304(LC 34)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-465/179
BOT CHORD 2-8=-279/380, 7-8=-279/380
WEBS 4-7=-441/324

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=219, 2=229, 6=156.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 24 lb up at 1-6-13, 90 lb down and 45 lb up at 3-2-8, 139 lb down and 96 lb up at 4-9-15, and 118 lb down and 96 lb up at 5-8-14, and 153 lb down and 152 lb up at 8-2-3 on top chord, and 12 lb down and 6 lb up at 1-6-13, 20 lb down and 5 lb up at 3-2-8, 40 lb down and 16 lb up at 4-9-15, and 37 lb down and 21 lb up at 5-8-14, and 87 lb down and 27 lb up at 8-2-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-54, 6-9=-20
Concentrated Loads (lb)
Vert: 5=-111(F) 6=-64(F) 14=-5(F) 15=-5(B) 16=6(F) 17=4(B) 18=-14(F) 19=-11(B)

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312932 |
|---|---|---|---|---|---|
| 4460922 | PB01 | Piggyback | 3 | 1 | Job Reference (optional) |

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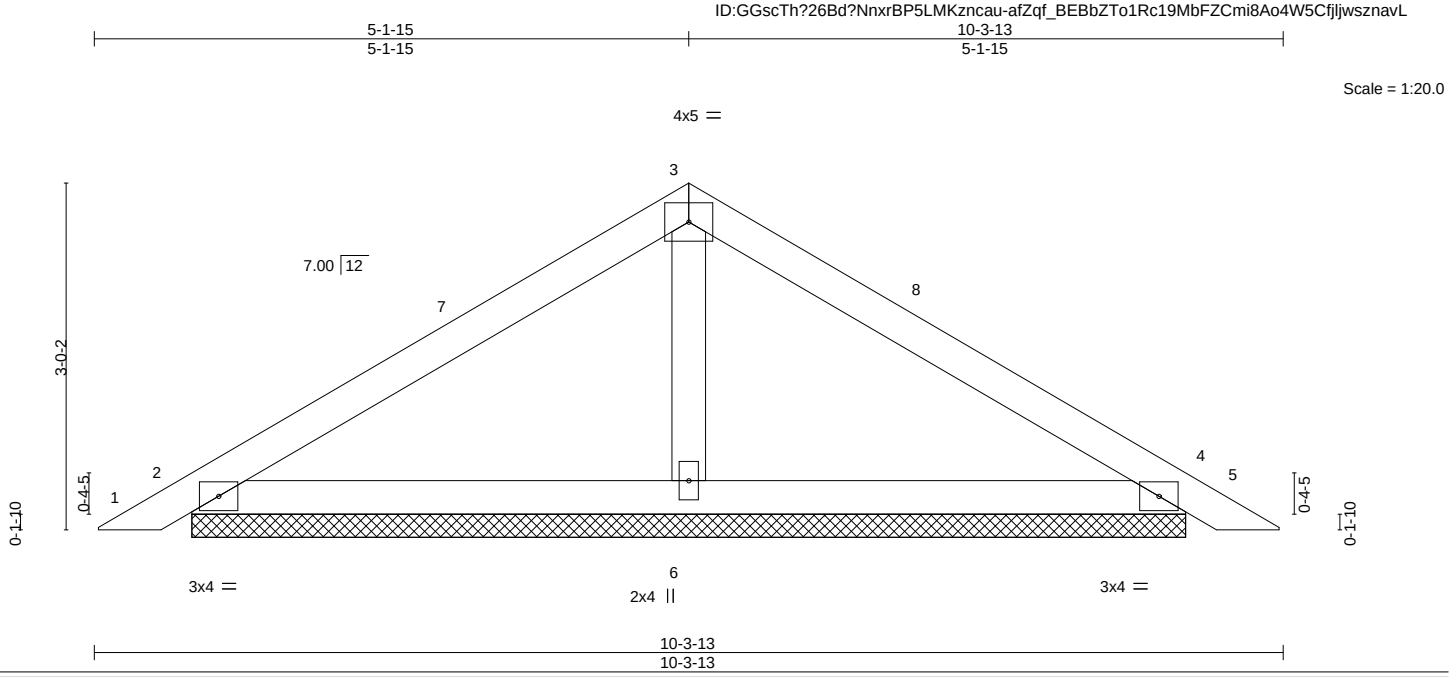


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | 0.01 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.18 | Vert(CT) | 0.01 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 34 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=8-7-8, 4=8-7-8, 6=8-7-8
Max Horz 2=90(LC 11)
Max Uplift 2=-92(LC 12), 4=-104(LC 13), 6=-96(LC 12)
Max Grav 2=181(LC 1), 4=185(LC 20), 6=334(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 3-3-11, Zone1 3-3-11 to 5-1-15, Zone2 5-1-15 to 9-5-11, Zone1 9-5-11 to 10-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 4=104.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312933 |
|---|---|---|---|---|---|
| 4460922 | PB02 | Piggyback | 1 | 1 | Job Reference (optional) |

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10-3-13
10-3-13

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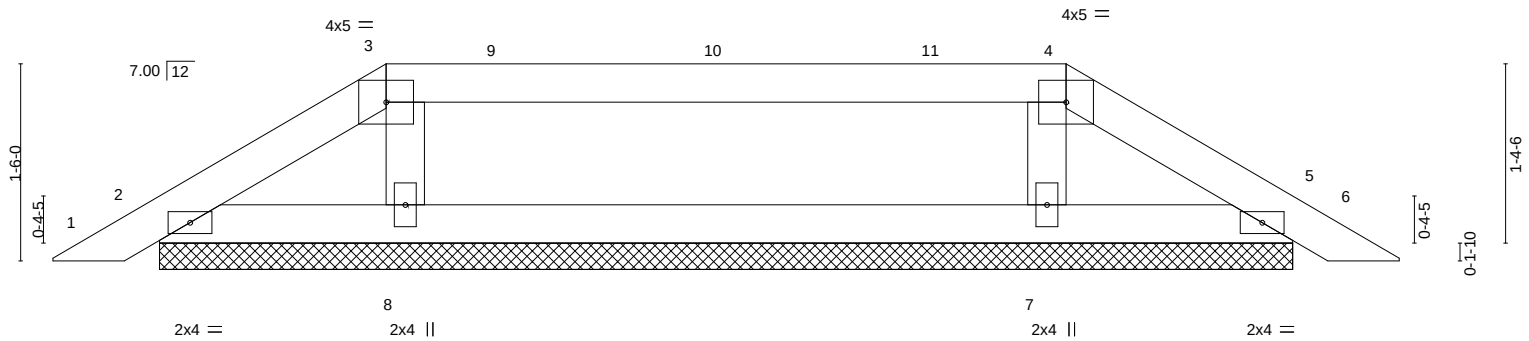


10-3-13
10-3-13

| 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 | 0.28 | Vert(LL) | -0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.14 | Vert(CT) | -0.00 | 6 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 32 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.** All bearings 8-7-8.
(lb) - Max Horz 2=42(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5 except 8=-119(LC 9), 7=-110(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=284(LC 25), 7=284(LC 26)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-11 to 2-6-14, Zone2 2-6-14 to 6-9-12, Zone1 6-9-12 to 7-8-15, Zone3 7-8-15 to 10-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5 except (jt=lb) 8=119, 7=110.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. |
|---|---|---|---|---|---|
| 4460922 | PB03 | PIGGYBACK | 1 | 1 | T36312934 |
| | | | | | Job Reference (optional) |

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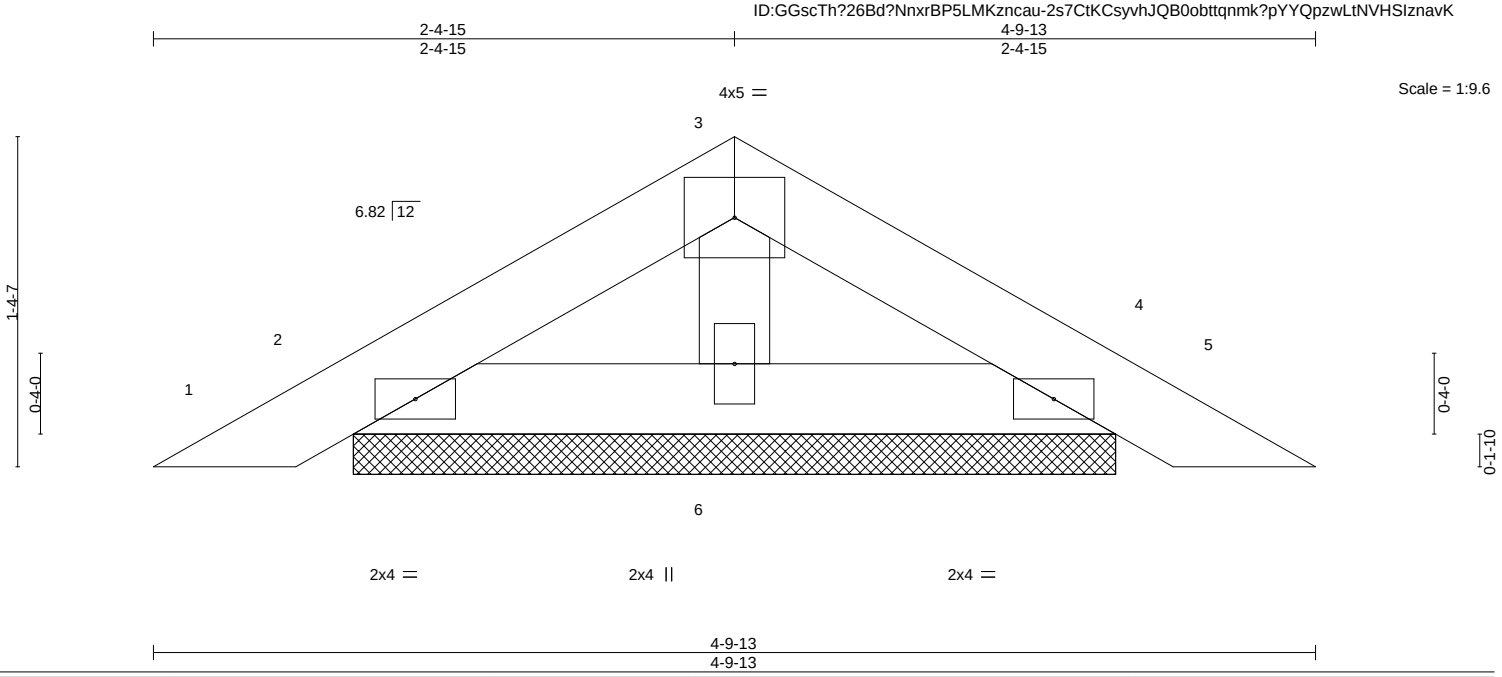


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.05 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | 0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 14 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 4-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=3-1-15, 4=3-1-15, 6=3-1-15
Max Horz 2=-36(LC 10)
Max Uplift 2=-54(LC 12), 4=-59(LC 13), 6=-20(LC 12)
Max Grav 2=93(LC 1), 4=93(LC 1), 6=106(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-9 to 2-4-15, Zone2 2-4-15 to 4-6-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. |
|---|---|---|---|---|---|
| 4460922 | PB04 | Piggyback | 1 | 2 | T36312935 |
| | | | | | Job Reference (optional) |

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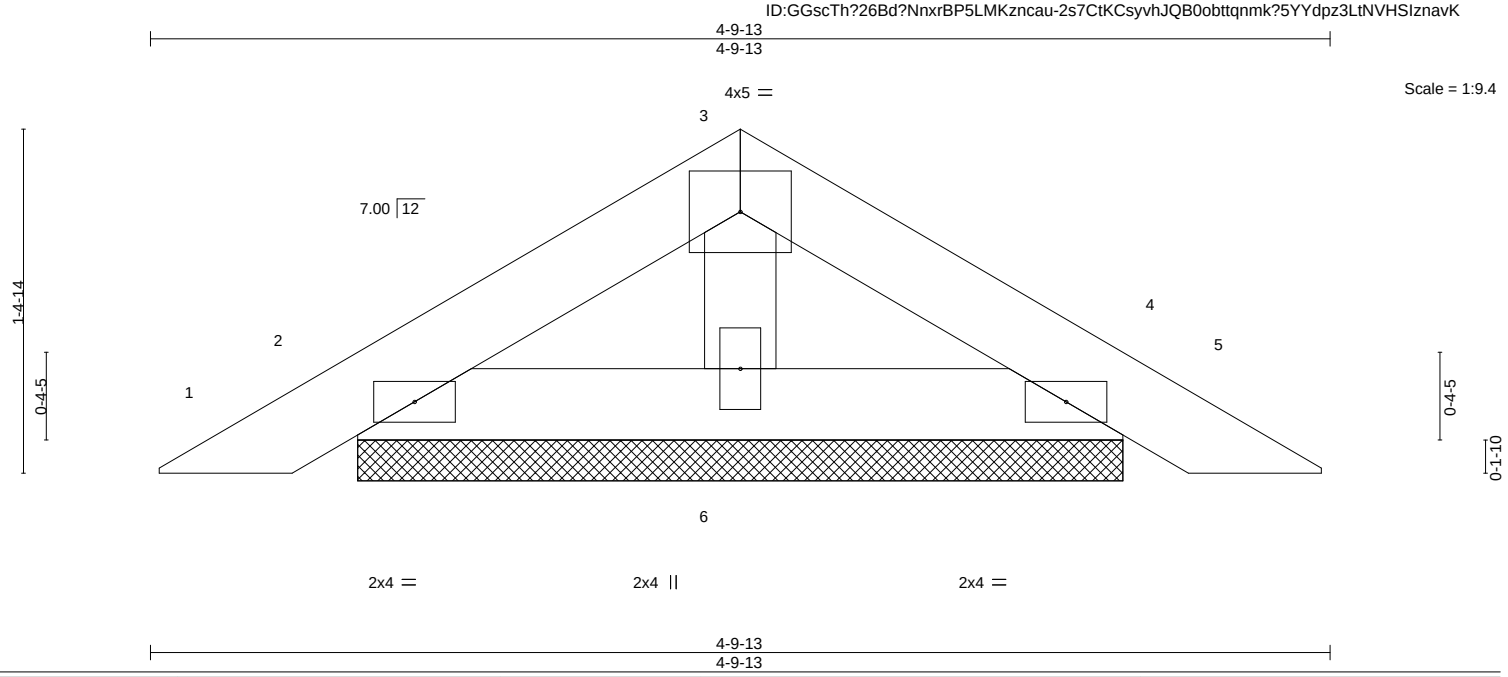


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.03 | Vert(LL) | 0.00 | 4 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.01 | Vert(CT) | 0.00 | 4 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.01 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 28 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 4-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=3-1-8, 4=3-1-8, 6=3-1-8
Max Horz 2=-39(LC 10)
Max Uplift 2=-54(LC 12), 4=-59(LC 13), 6=-19(LC 12)
Max Grav 2=93(LC 1), 4=94(LC 20), 6=103(LC 1)

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

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Gable requires continuous bottom chord bearing.
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, 4, 6.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312936 |
|---|---|---|---|---|---|
| 4460922 | T01 | Common | 1 | 1 | Job Reference (optional) |

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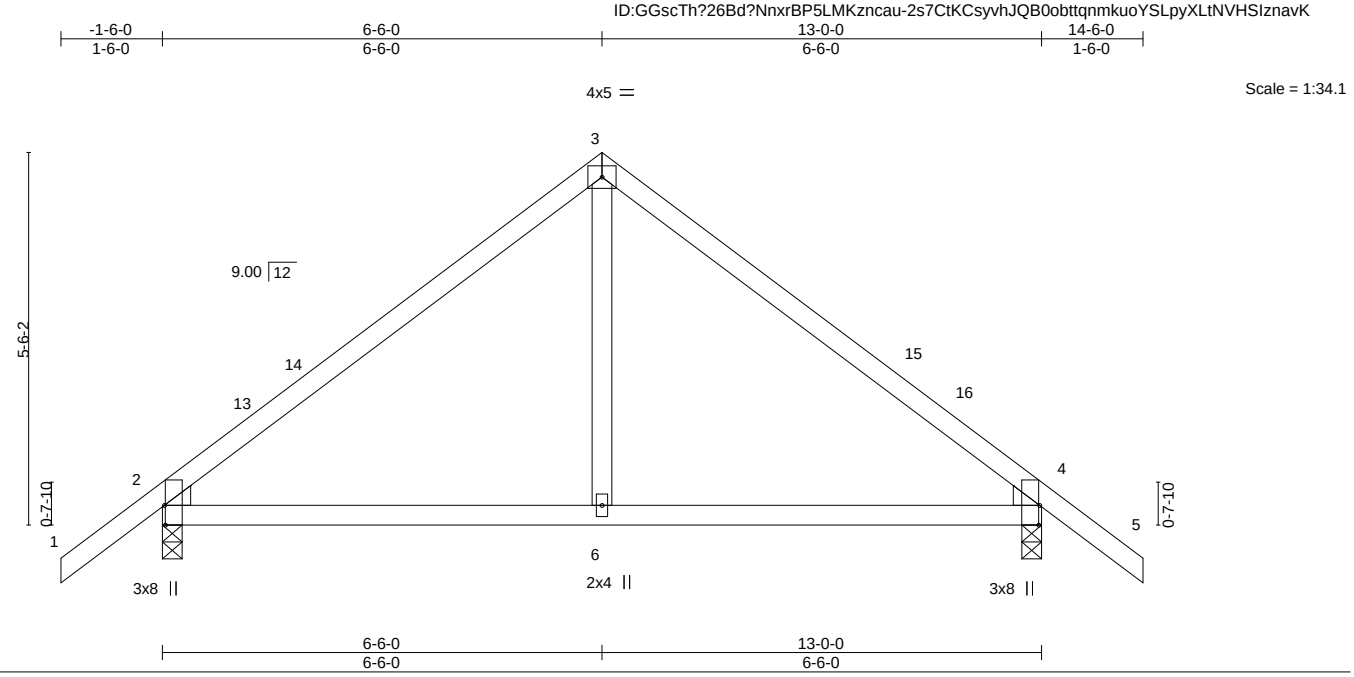


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-8,Edge]

| 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 | 0.50 | Vert(LL) | 0.08 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.41 | Vert(CT) | -0.09 | 6-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | -0.02 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 58 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 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=-191(LC 10)
Max Uplift 2=-227(LC 12), 4=-227(LC 13)
Max Grav 2=562(LC 1), 4=562(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-518/303, 3-4=-518/303
BOT CHORD 2-6=-62/373, 4-6=-62/373
WEBS 3-6=-39/286

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-6-0, Zone2 6-6-0 to 10-8-15, Zone1 10-8-15 to 14-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=227, 4=227.

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February 10,2025




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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312937 |
|---|---|---|---|---|---|
| 4460922 | T01G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:26 2025 Page 1
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1-6-0 6-6-0 6-6-0 1-6-0

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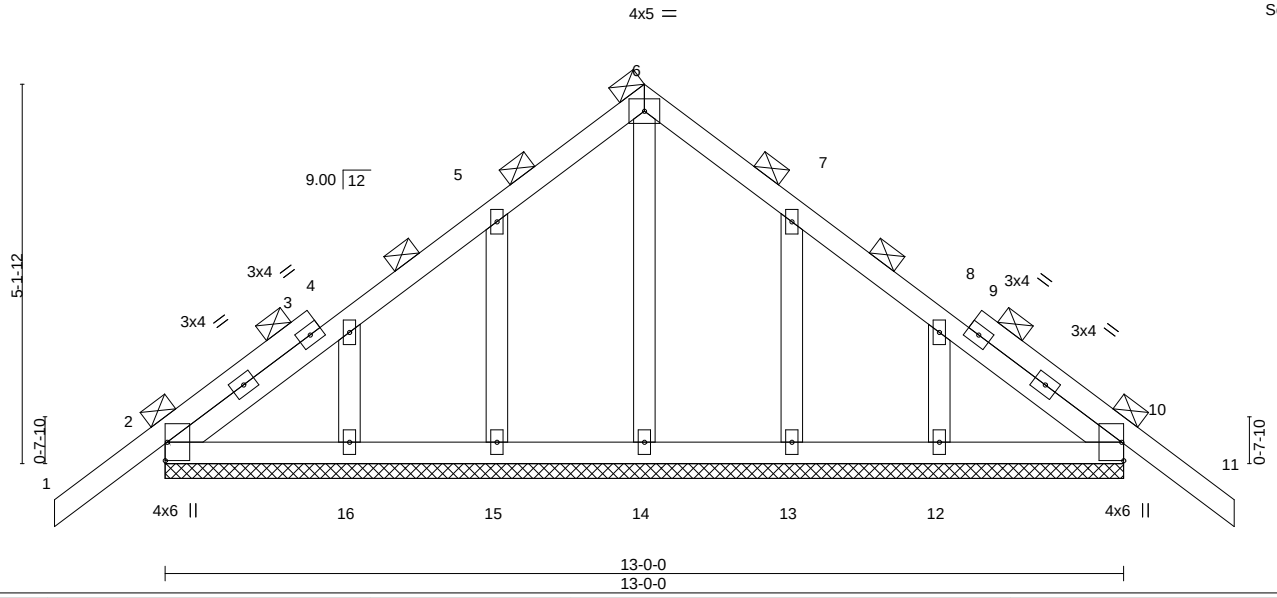


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | -0.01 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | -0.01 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 77 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 10-0-0 oc bracing.

**REACTIONS.** All bearings 13-0-0.
(lb) - Max Horz 2=-180(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 15=-136(LC 12), 16=-122(LC 12), 13=-135(LC 13), 12=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 15=136, 16=122, 13=135, 12=124.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312938 |
|---|---|---|---|---|---|
| 4460922 | T02 | Common | 1 | 1 | Job Reference (optional) |

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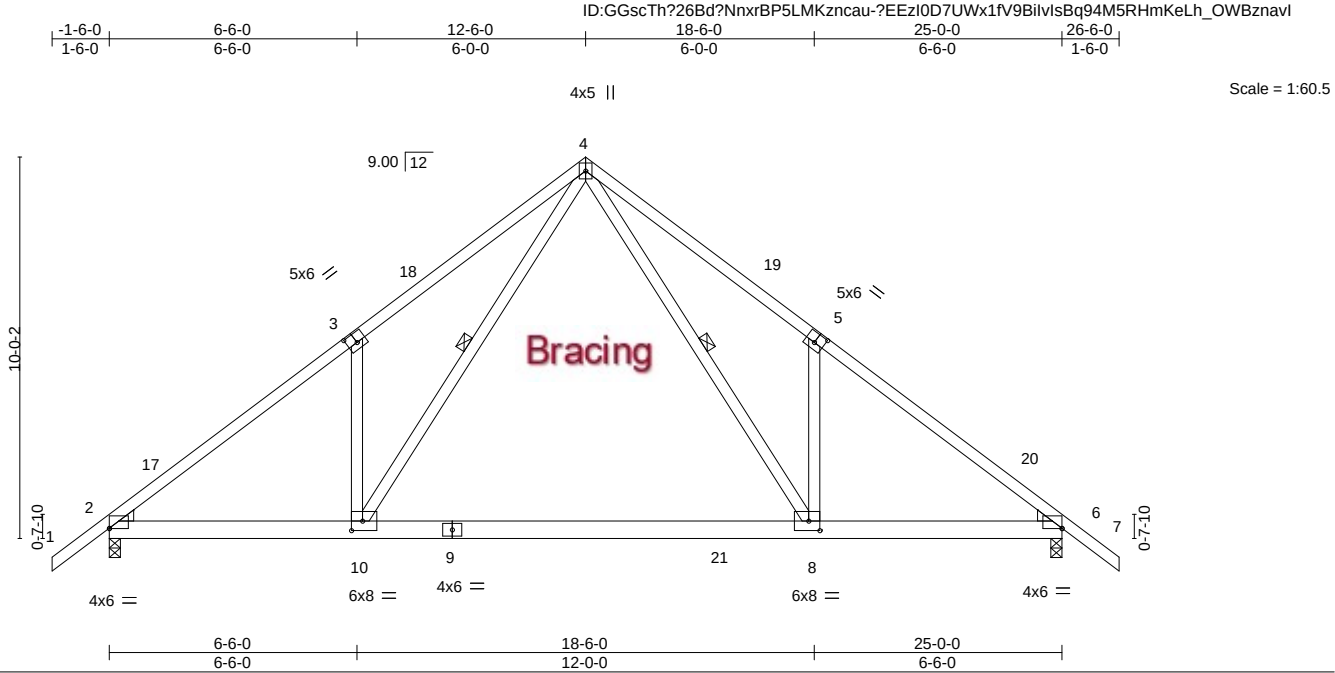


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-0-0,0-0-2], [8:0-3-8,0-3-0], [10:0-3-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.77 | Vert(LL) | -0.33 | 8-10 | >921 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.61 | 8-10 | >492 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.47 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 159 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-335(LC 10)
Max Uplift 2=-560(LC 12), 6=-560(LC 13)
Max Grav 2=1545(LC 19), 6=1545(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2215/745, 3-4=-2284/1038, 4-5=-2284/1038, 5-6=-2215/745
BOT CHORD 2-10=-639/1909, 8-10=-251/1105, 6-8=-480/1732
WEBS 4-8=-718/1503, 5-8=-395/448, 4-10=-718/1503, 3-10=-394/448

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 26-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=560, 6=560.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312939 |
|---|---|---|---|---|---|
| 4460922 | T02G | GABLE | 1 | 1 | Job Reference (optional) |

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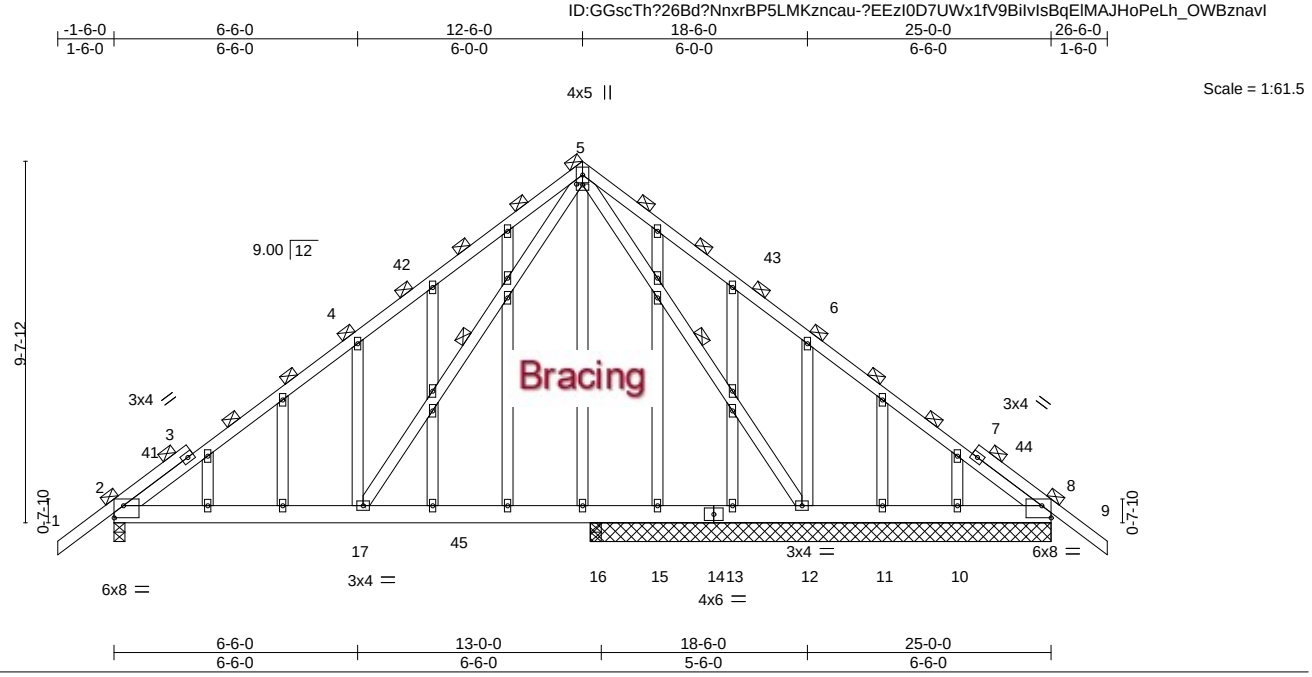


Plate Offsets (X,Y)-- [2:Edge,0-3-14], [5:0-2-0,0-0-4], [8:Edge,0-3-14]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.47 | Vert(LL) | 0.05 | 17-37 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.25 | Vert(CT) | -0.06 | 17-37 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 227 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x6 SP No.2 |
| WEBS | 2x4 SP No.3 |
| OTHERS | 2x4 SP No.3 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | 2-0-0 oc purlins (5-9-2 max.). |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 5-12, 5-17 |

**REACTIONS.** All bearings 12-3-8 except (jt=length) 2=0-3-8, 16=0-3-8.
(lb) - Max Horz 2=324(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 8, 15, 11 except 2=-297(LC 12), 12=-514(LC 13), 10=-160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 8, 15, 13, 11, 8 except 2=787(LC 19), 12=803(LC 20), 10=254(LC 20), 16=369(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-806/273, 4-5=-928/574
BOT CHORD 2-17=-268/809, 16-17=-102/364, 15-16=-102/364, 13-15=-102/364, 12-13=-102/364, 11-12=-180/310, 10-11=-180/310, 8-10=-180/310
WEBS 5-12=-569/264, 6-12=-416/438, 5-17=-519/834, 4-17=-438/451

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 26-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 15, 11, 8 except (jt=lb) 2=297, 12=514, 10=160.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312940 |
|---|---|---|---|---|---|
| 4460922 | T03 | Common | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:28 2025 Page 1
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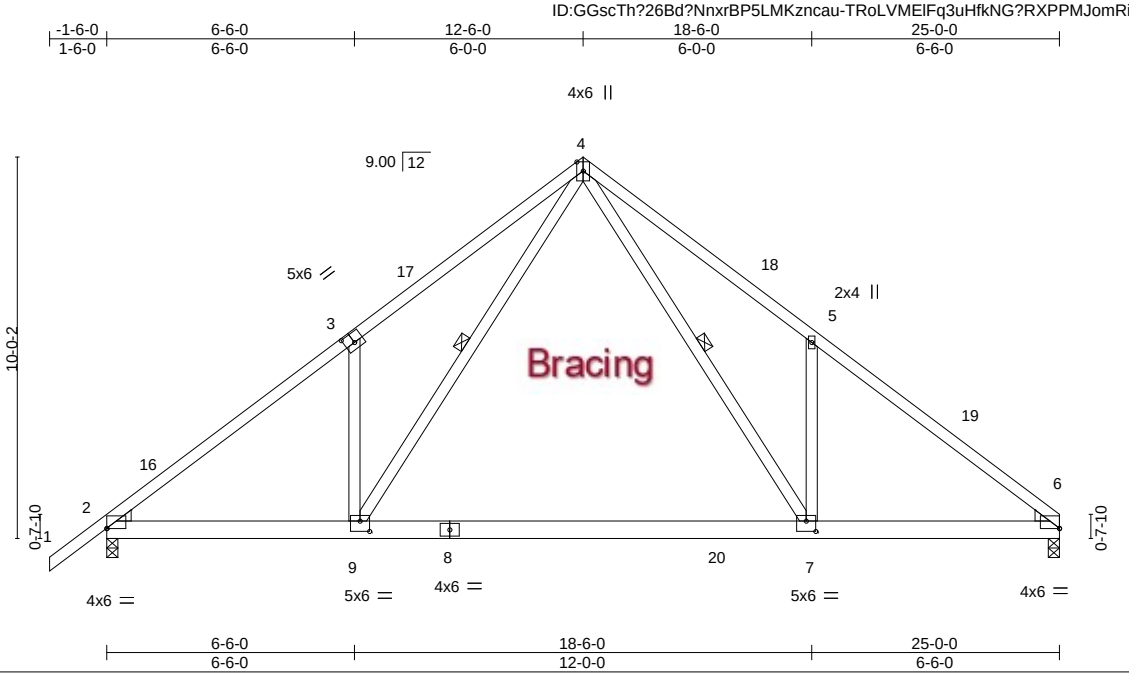


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [3:0-3-0,0-3-0], [6:0-0-0,0-0-2], [7:0-3-0,0-3-4], [9:0-3-0,0-3-4]

| 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 0.77 | Vert(LL) -0.32 7-9 >925 240 | MT20 244/190 |
| TCDL 7.0 | | Lumber DOL 1.25 | BC 0.56 | Vert(CT) -0.61 7-9 >494 180 | |
| BCLL 0.0 | * | Rep Stress Incr NO | WB 0.48 | Horz(CT) 0.03 6 n/a n/a | |
| BCDL 10.0 | | Code FBC2023/TPI2014 | Matrix-MS | | Weight: 156 lb FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-7, 4-9

**REACTIONS.** (size) 6=0-3-8, 2=0-3-8
Max Horz 2=322(LC 9)
Max Uplift 6=-507(LC 13), 2=-561(LC 12)
Max Grav 6=1465(LC 20), 2=1546(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2217/746, 3-4=-2285/1039, 4-5=-2302/1058, 5-6=-2227/767
BOT CHORD 2-9=-664/1892, 7-9=-276/1089, 6-7=-506/1717
WEBS 4-7=-739/1525, 5-7=-401/454, 4-9=-718/1502, 3-9=-395/448

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 25-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 6=507, 2=561.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312941 |
|---|---|---|---|---|---|
| 4460922 | T04 | Common | 15 | 1 | Job Reference (optional) |

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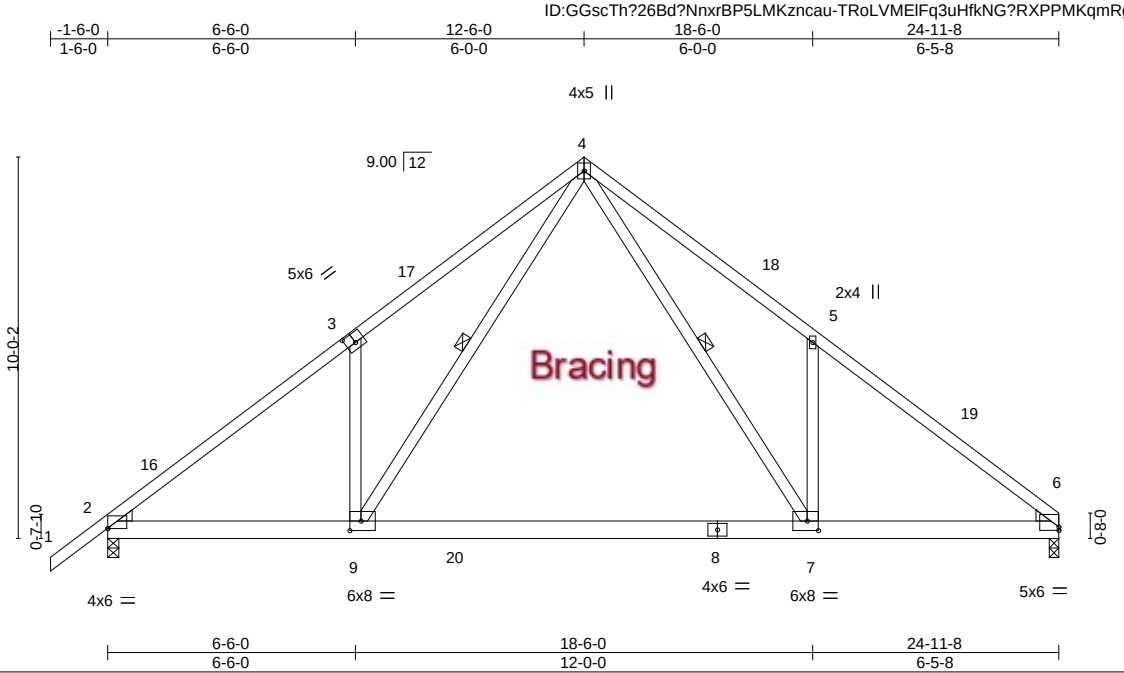


Plate Offsets (X,Y)-- [2:0-0-0,0-0-2], [3:0-3-0,0-3-0], [6:0-0-0,0-1-1], [7:0-3-8,0-3-0], [9:0-3-8,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.77 | Vert(LL) | -0.33 | 7-9 | >919 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.61 | 7-9 | >491 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.48 | Horz(CT) | 0.03 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 156 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-0-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-9, 4-7

**REACTIONS.** (size) 6=0-3-0, 2=0-3-8
Max Horz 2=322(LC 9)
Max Uplift 6=-506(LC 13), 2=-560(LC 12)
Max Grav 6=1463(LC 20), 2=1544(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2213/745, 3-4=-2282/1038, 4-5=-2288/1053, 5-6=-2214/763
BOT CHORD 2-9=-664/1889, 7-9=-276/1085, 6-7=-503/1707
WEBS 3-9=-395/448, 4-9=-718/1504, 4-7=-734/1511, 5-7=-399/454

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 24-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 6=506, 2=560.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312942 |
|---|---|---|---|---|---|
| 4460922 | T05 | Roof Special | 4 | 1 | Job Reference (optional) |

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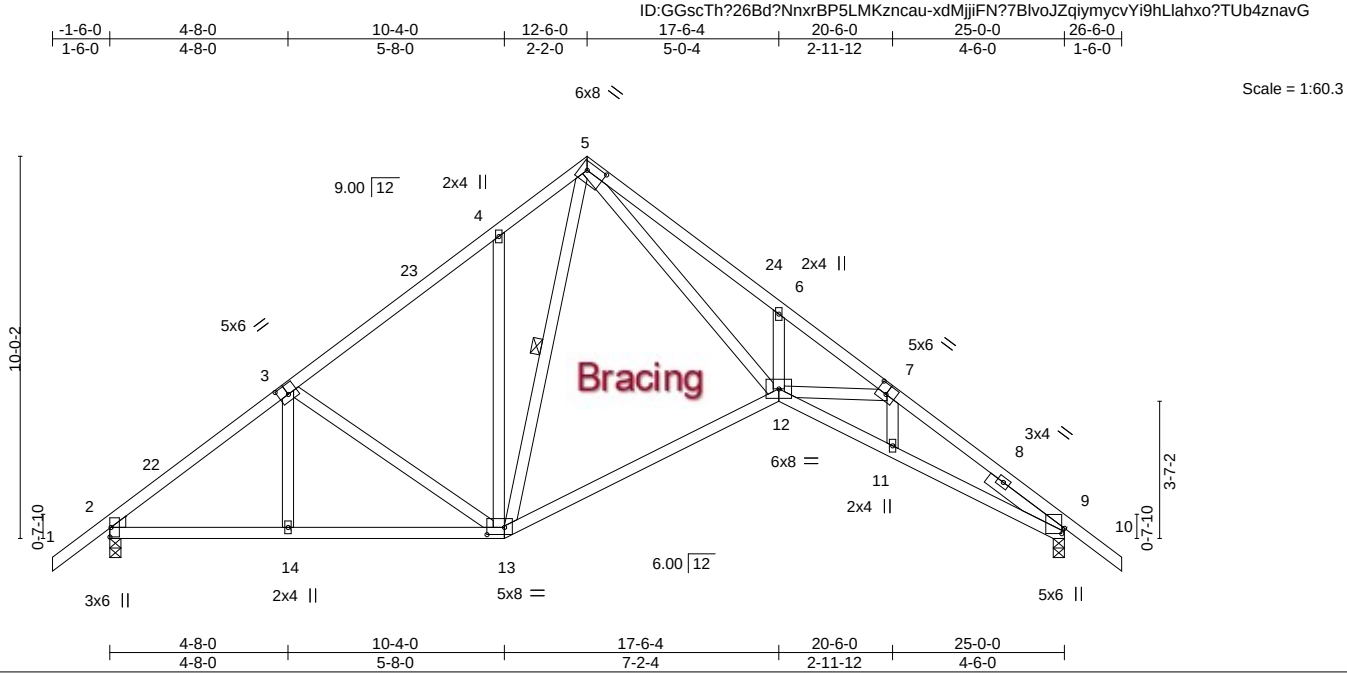


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-5-12,0-2-8], [7:0-3-0,0-3-0], [9:0-1-11,0-0-14], [13:0-5-8,0-2-4]

| 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 | 0.57 | Vert(LL) | -0.20 | 12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.92 | Vert(CT) | -0.43 | 12-13 | >690 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.29 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 158 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 2-5-8

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-13

**REACTIONS.** (size) 2=0-3-8, 9=0-3-8
Max Horz 2=-335(LC 10)
Max Uplift 2=-387(LC 12), 9=-387(LC 13)
Max Grav 2=1006(LC 1), 9=1006(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1242/446, 3-4=-980/438, 4-5=-935/586, 5-6=-2730/939, 6-7=-2649/799, 7-9=-2616/788
BOT CHORD 2-14=-436/1065, 13-14=-435/1066, 12-13=-136/843, 11-12=-585/2283, 9-11=-574/2216
WEBS 3-13=-332/279, 4-13=-296/308, 5-13=-376/360, 5-12=-638/2278, 6-12=-319/318

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 26-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=387, 9=387.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312943 |
|---|---|---|---|---|---|
| 4460922 | T05G | GABLE | 1 | 1 | Job Reference (optional) |

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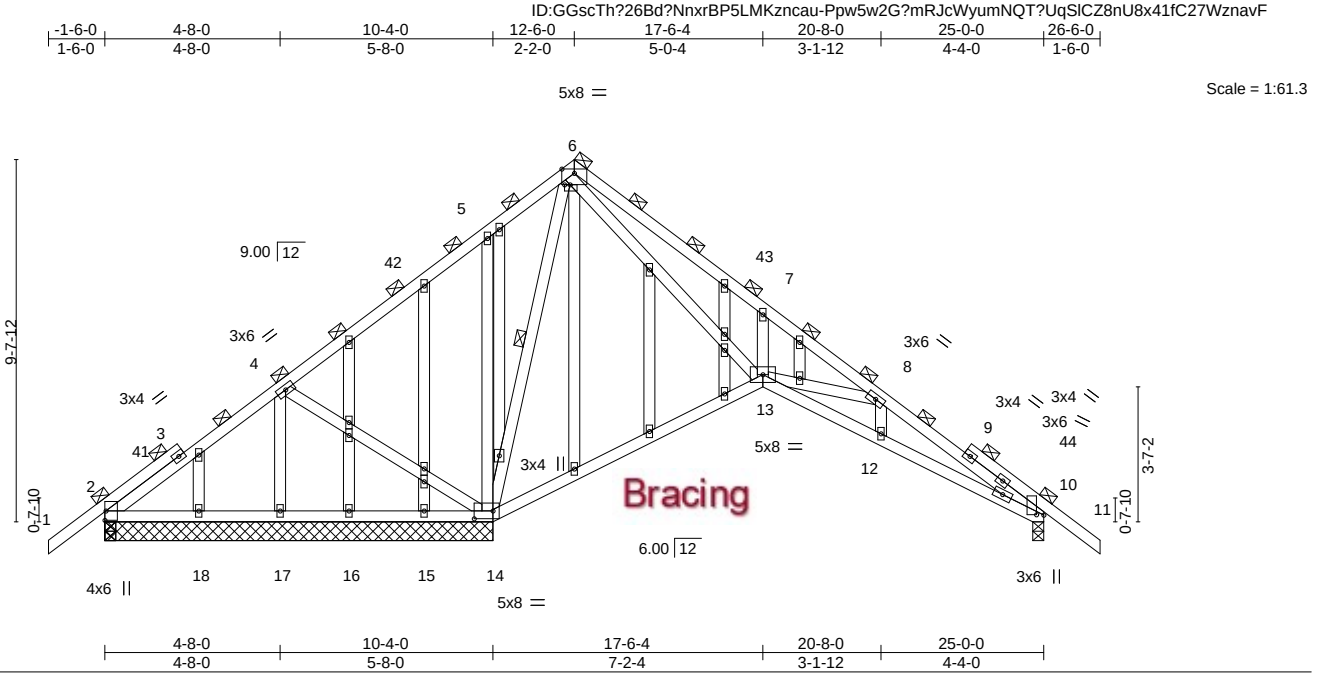


Plate Offsets (X,Y)-- [6:0-1-12,0-0-0], [10:0-0-2,0-2-5], [14:0-6-0,0-2-8]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.39 | Vert(LL) | -0.11 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.22 | 13-14 | >814 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.42 | Horz(CT) | 0.04 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 210 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.3 |
| 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, Except: 10-0-0 oc bracing: 12-13,10-12. |
| WEBS | 1 Row at midpt 6-14 |

**REACTIONS.** All bearings 10-4-0 except (jt=length) 2=0-3-8, 2=0-3-8, 2=0-3-8, 10=0-3-8.
(lb) - Max Horz 2=324(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 18 except 2=-110(LC 26), 10=-217(LC 13), 14=-449(LC 13), 17=-276(LC 26)
Max Grav All reactions 250 lb or less at joint(s) 2, 2, 2, 17, 15, 16, 18 except 10=361(LC 20), 14=1598(LC 1)

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

| | |
|---|---|
| TOP CHORD | 2-4=-146/408, 4-5=-112/728, 5-6=0/661, 8-10=-473/195 |
| BOT CHORD | 2-18=-304/224, 17-18=-304/224, 16-17=-304/224, 15-16=-304/224, 14-15=-304/224, 13-14=-470/436, 12-13=-33/438, 10-12=-43/427 |
| WEBS | 4-17=-86/307, 4-14=-359/195, 5-14=-303/308, 6-14=-912/58, 6-13=-87/474, 7-13=-307/326, 8-13=-441/355 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 26-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 18 except (jt=lb) 2=110, 10=217, 14=449, 17=276.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, 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:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312944 |
|---|---|---|---|---|---|
| 4460922 | T06 | Roof Special | 3 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:30 2025 Page 1
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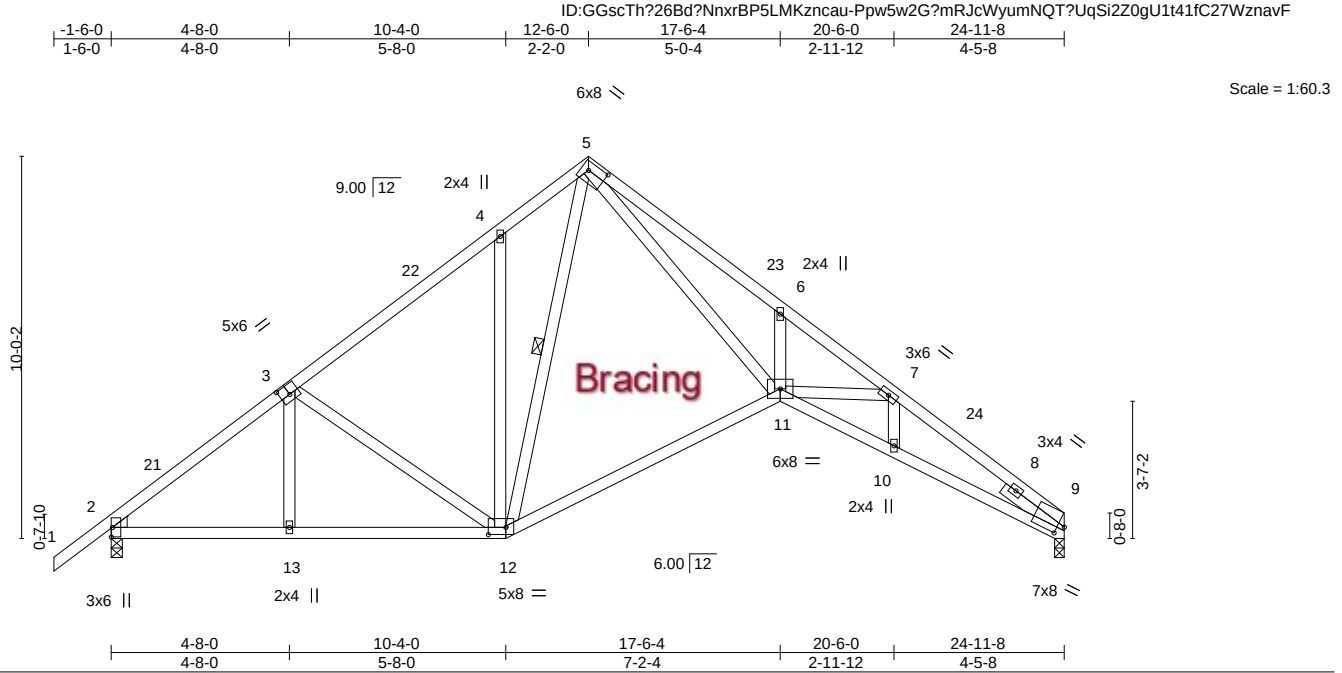


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-5-12,0-2-8], [9:0-2-1,0-3-1], [12:0-5-8,0-2-4]

| 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) | -0.20 | 11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.44 | 11-12 | >684 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.87 | Horz(CT) | 0.30 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 154 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12

**REACTIONS.** (size) 9=0-3-0, 2=0-3-8
Max Horz 2=322(LC 9)
Max Uplift 9=-333(LC 13), 2=-388(LC 12)
Max Grav 9=921(LC 1), 2=1007(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1243/447, 3-4=-981/439, 4-5=-937/594, 5-6=-2739/1031, 6-7=-2661/859, 7-9=-2623/915
BOT CHORD 2-13=-461/1046, 12-13=-460/1048, 11-12=-168/820, 10-11=-698/2283, 9-10=-692/2213
WEBS 3-12=-332/279, 4-12=-296/308, 5-12=-362/346, 5-11=-730/2288, 6-11=-320/321

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 24-11-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=333, 2=388.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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16023 Swingley Ridge Rd.
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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312945 |
|---|---|---|---|---|---|
| 4460922 | T07 | Piggyback Base | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:31 2025 Page 1
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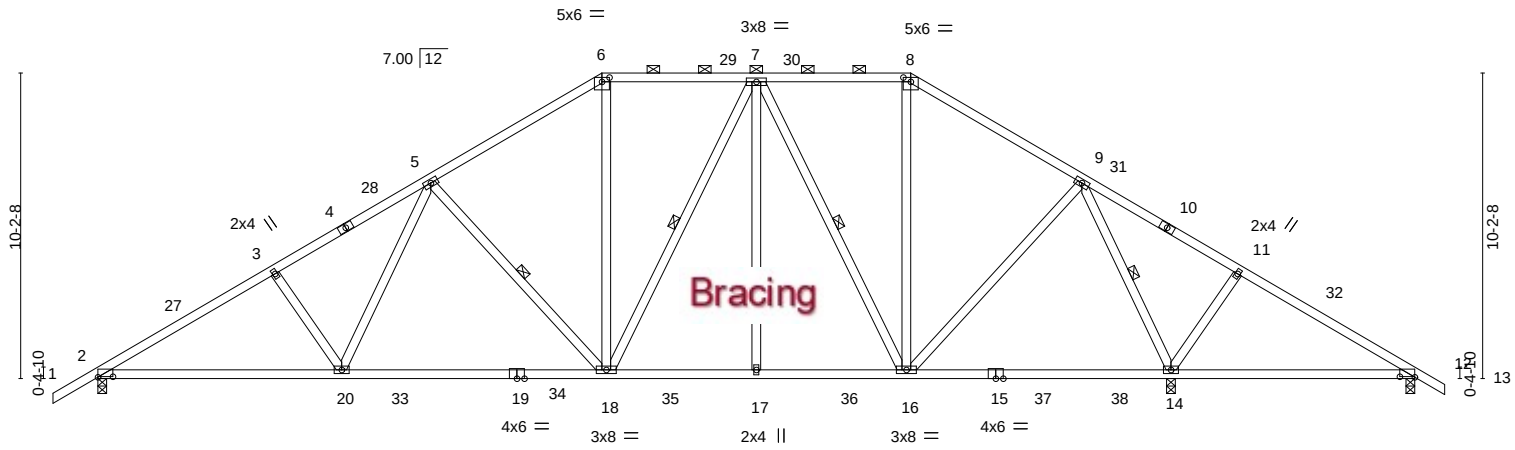
| 1-6-0 | 5-11-1 | 11-1-8 | 16-10-1 | 22-0-0 | 27-1-15 | 32-10-8 | 38-0-15 | 44-0-0 | 45-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-11-1 | 5-2-7 | 5-8-10 | 5-1-15 | 5-1-15 | 5-8-10 | 5-2-7 | 5-11-1 | 1-0-0 |

Scale = 1:77.0




| 8-1-12 | 16-10-1 | 22-0-0 | 27-1-15 | 35-10-4 | 44-0-0 |
|---|---|---|---|---|---|
| 8-1-12 | 8-8-5 | 5-1-15 | 5-1-15 | 8-8-5 | 8-1-12 |

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

| 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 | 0.44 | Vert(LL) | 0.19 | 14-26 | >514 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.93 | Vert(CT) | -0.42 | 18-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.07 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 276 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 3-5-8 oc purlins, except 2-0-0 oc purlins (5-0-9 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18, 7-16, 9-14

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8, 12=0-3-8
Max Horz 2=339(LC 11)
Max Uplift 2=-574(LC 12), 14=-692(LC 13), 12=-167(LC 8)
Max Grav 2=1522(LC 19), 14=2243(LC 2), 12=167(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2378/859, 3-5=-2246/865, 5-6=-1542/646, 6-7=-1278/625, 7-8=-857/480, 8-9=-1057/491, 9-11=-162/657, 11-12=-177/530
BOT CHORD 2-20=-843/2213, 18-20=-613/1772, 17-18=-356/1170, 16-17=-356/1170, 14-16=-40/290, 12-14=-393/203
WEBS 3-20=-300/270, 5-20=-196/664, 5-18=-718/421, 6-18=-163/525, 7-18=-178/408, 7-16=-731/343, 8-16=-108/312, 9-16=-250/866, 9-14=-1825/596, 11-14=-317/285

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-10-13, Zone1 2-10-13 to 16-10-1, Zone2 16-10-1 to 23-0-12, Zone1 23-0-12 to 27-1-15, Zone2 27-1-15 to 33-4-9, Zone1 33-4-9 to 45-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=574, 14=692, 12=167.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312946 |
|---|---|---|---|---|---|
| 4460922 | T08 | Hip | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:32 2025 Page 1
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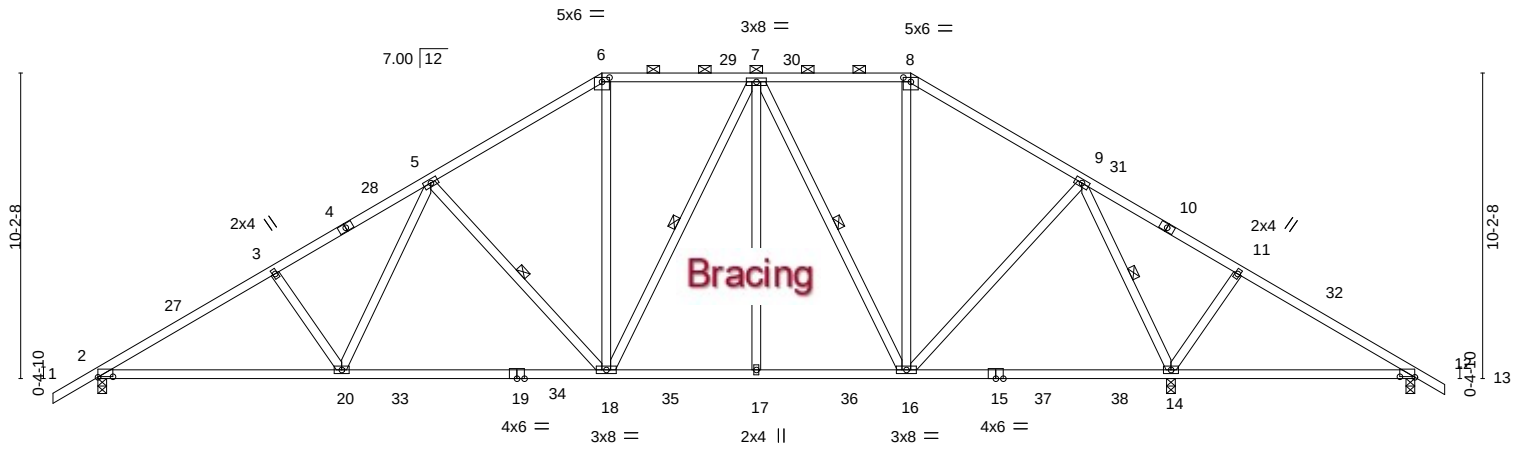
| 1-6-0 | 5-11-1 | 11-1-8 | 16-10-1 | 22-0-0 | 27-1-15 | 32-10-8 | 38-0-15 | 44-0-0 | 45-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-11-1 | 5-2-7 | 5-8-10 | 5-1-15 | 5-1-15 | 5-8-10 | 5-2-7 | 5-11-1 | 1-0-0 |

Scale = 1:77.0




| 8-1-12 | 16-10-1 | 22-0-0 | 27-1-15 | 35-10-4 | 44-0-0 |
|---|---|---|---|---|---|
| 8-1-12 | 8-8-5 | 5-1-15 | 5-1-15 | 8-8-5 | 8-1-12 |

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

| 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 | 0.44 | Vert(LL) | 0.19 | 14-26 | >514 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.93 | Vert(CT) | -0.42 | 18-20 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.07 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 276 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 3-5-8 oc purlins, except 2-0-0 oc purlins (5-0-9 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-18, 7-18, 7-16, 9-14

**REACTIONS.** (size) 2=0-3-8, 14=0-3-8, 12=0-3-8
Max Horz 2=339(LC 11)
Max Uplift 2=-574(LC 12), 14=-692(LC 13), 12=-167(LC 8)
Max Grav 2=1522(LC 19), 14=2243(LC 2), 12=167(LC 26)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2378/859, 3-5=-2246/865, 5-6=-1542/646, 6-7=-1278/625, 7-8=-857/480, 8-9=-1057/491, 9-11=-162/657, 11-12=-177/530
BOT CHORD 2-20=-843/2213, 18-20=-613/1772, 17-18=-356/1170, 16-17=-356/1170, 14-16=-40/290, 12-14=-393/203
WEBS 3-20=-300/270, 5-20=-196/664, 5-18=-718/421, 6-18=-163/525, 7-18=-178/408, 7-16=-731/343, 8-16=-108/312, 9-16=-250/866, 9-14=-1825/596, 11-14=-317/285

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-10-13, Zone1 2-10-13 to 16-10-1, Zone2 16-10-1 to 23-0-12, Zone1 23-0-12 to 27-1-15, Zone2 27-1-15 to 33-4-9, Zone1 33-4-9 to 45-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=574, 14=692, 12=167.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 10,2025




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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. |
|---|---|---|---|---|---|
| 4460922 | T09 | Piggyback Base Girder | 1 | 2 | T36312947 |
| | | | | | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:33 2025 Page 1
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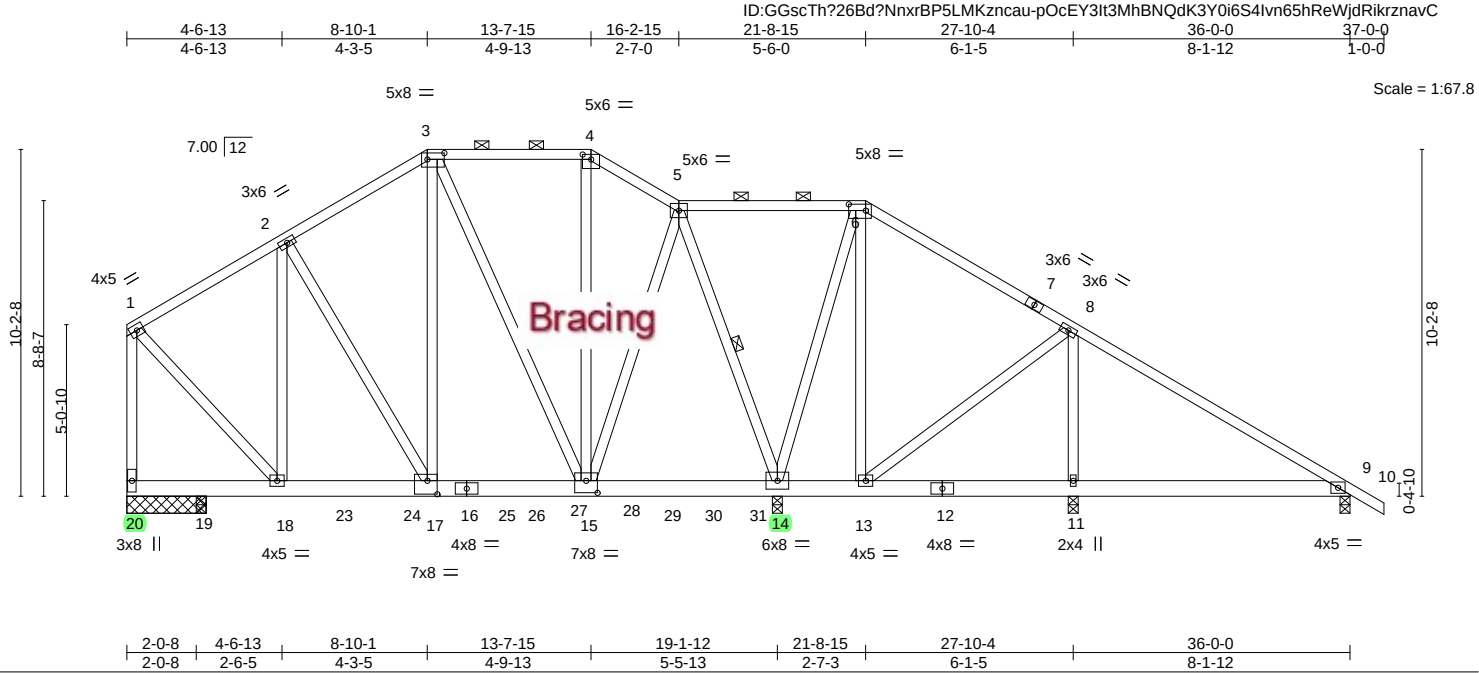


Plate Offsets (X,Y)-- [3:0-6-0,0-2-4], [4:0-3-0,0-1-12], [6:0-6-0,0-2-4], [15:0-4-0,0-4-4], [17:0-3-8,0-4-12]

| 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 | 0.30 | Vert(LL) | 0.06 | 17-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.68 | Vert(CT) | -0.09 | 17-18 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.61 | Horz(CT) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 589 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 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

**REACTIONS.** All bearings 0-3-8 except (jt=length) 20=2-4-0.
(lb) - Max Horz 20=-371(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-1602(LC 8), 14=-2208(LC 9), 11=-304(LC 30), 9=-143(LC 30), 19=-484(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 20=3772(LC 1), 14=4829(LC 1), 11=782(LC 16), 9=310(LC 22), 19=1228(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2208/978, 2-3=-2544/1204, 3-4=-1801/941, 4-5=-2108/1049, 1-20=-3182/1397
BOT CHORD 19-20=-254/368, 18-19=-254/368, 17-18=-912/1860, 15-17=-1019/2165, 14-15=-549/1047, 13-14=-166/361
WEBS 2-18=-888/408, 2-17=-370/603, 3-17=-838/1793, 3-15=-874/397, 4-15=-456/865, 5-15=-1054/2396, 5-14=-3729/1685, 6-14=-326/209, 8-13=-187/261, 8-11=-500/280, 1-18=-1145/2721

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1602 lb uplift at joint 20, 2208 lb uplift at joint 14, 304 lb uplift at joint 11, 143 lb uplift at joint 9 and 484 lb uplift at joint 19.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, 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:

February 10,2025

Continued on page 2



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**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 797 lb down and 318 lb up at 0-1-12, 789 lb down and 334 lb up at 2-3-12, 789 lb down and 344 lb up at 4-3-12, 789 lb down and 373 lb up at 6-3-12, 789 lb down and 368 lb up at 8-3-12, 789 lb down and 360 lb up at 10-3-12, 789 lb down and 351 lb up at 11-2-4, 789 lb down and 421 lb up at 13-2-4, and 789 lb down and 407 lb up at 15-2-4, and 789 lb down and 407 lb up at 17-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-5=-54, 5-6=-54, 6-10=-54, 9-20=-20
   Concentrated Loads (lb)
   Vert: 20=-797(B) 18=-789(B) 19=-789(B) 23=-789(B) 24=-789(B) 25=-789(B) 26=-789(B) 28=-789(B) 29=-789(B) 30=-789(B)

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312948 |
|---|---|---|---|---|---|
| 4460922 | T10 | Hip Girder | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:34 2025 Page 1
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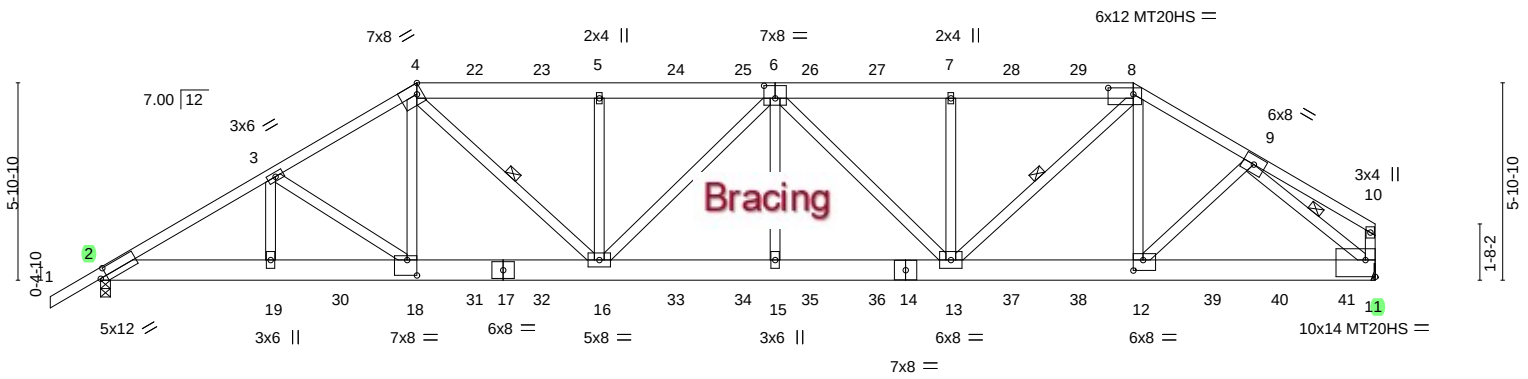
| -1-6-0 | 5-0-13 | 9-5-2 | 14-10-7 | 20-1-5 | 25-4-3 | 30-9-7 | 34-3-0 | 38-0-0 |
|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-0-13 | 4-4-5 | 5-5-4 | 5-2-15 | 5-2-14 | 5-5-4 | 3-5-8 | 3-9-0 |

Scale = 1:68.7




| 5-0-13 | 9-5-2 | 14-10-7 | 20-1-5 | 25-4-3 | 30-9-7 | 38-0-0 |
|---|---|---|---|---|---|---|
| 5-0-13 | 4-4-5 | 5-5-4 | 5-2-15 | 5-2-14 | 5-5-4 | 7-2-9 |

Plate Offsets (X,Y)-- [2:0-2-6,0-3-0], [4:0-2-0,Edge], [6:0-4-0,0-4-8], [8:0-9-0,0-2-4], [11:Edge,0-6-0], [12:0-3-8,0-3-12], [18:0-3-8,0-5-8]

| 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 | 0.80 | Vert(LL) | 0.39 | 15-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.32 | Vert(CT) | -0.43 | 15-16 | >999 | 180 | MT20HS | 187/143 |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.92 | Horz(CT) | 0.09 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 302 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* 6-8,4-6: 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-2-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-11-15 oc bracing.
WEBS 1 Row at midpt 4-16, 8-13, 9-11

**REACTIONS.** (size) 2=0-3-8, 11=Mechanical
Max Horz 2=193(LC 8)
Max Uplift 2=-2055(LC 8), 11=-2411(LC 9)
Max Grav 2=2988(LC 1), 11=3260(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5322/3726, 3-4=-4956/3582, 4-5=-5317/3901, 5-6=-5314/3899, 6-7=-4936/3628, 7-8=-4938/3631, 8-9=-4052/3002, 9-10=-335/278, 10-11=-263/216
BOT CHORD 2-19=-3278/4571, 18-19=-3278/4571, 16-18=-3009/4202, 15-16=-3962/5551, 13-15=-3962/5550, 12-13=-2427/3455, 11-12=-2100/2923
WEBS 3-18=-414/298, 4-18=-832/1228, 4-16=-1270/1638, 5-16=-418/400, 6-16=-397/347, 6-15=-318/556, 6-13=-915/685, 7-13=-415/396, 8-13=-1552/2126, 8-12=-331/435, 9-12=-676/851, 9-11=-3718/2655

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2055 lb uplift at joint 2 and 2411 lb uplift at joint 11.

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Date:

February 10,2025

Continued on page 2



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**NOTES-**

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 82 lb up at 11-0-12, 99 lb down and 82 lb up at 13-0-12, 99 lb down and 82 lb up at 15-0-12, 99 lb down and 82 lb up at 17-0-12, 99 lb down and 82 lb up at 19-0-12, 99 lb down and 82 lb up at 21-0-12, 99 lb down and 82 lb up at 23-0-12, 99 lb down and 82 lb up at 25-0-12, and 99 lb down and 82 lb up at 27-0-12, and 99 lb down and 82 lb up at 29-0-12 on top chord, and 516 lb down and 429 lb up at 7-0-12, 304 lb down and 241 lb up at 9-0-12, 168 lb down and 138 lb up at 11-0-12, 168 lb down and 138 lb up at 13-0-12, 168 lb down and 138 lb up at 15-0-12, 168 lb down and 138 lb up at 17-0-12, 168 lb down and 138 lb up at 19-0-12, 168 lb down and 138 lb up at 21-0-12, 168 lb down and 138 lb up at 23-0-12, 168 lb down and 138 lb up at 25-0-12, 168 lb down and 138 lb up at 27-0-12, 168 lb down and 138 lb up at 29-0-12, 241 lb down and 239 lb up at 31-0-12, 241 lb down and 239 lb up at 33-0-12, and 241 lb down and 239 lb up at 35-0-12, and 244 lb down and 236 lb up at 37-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-8=-54, 8-10=-54, 2-11=-20
   Concentrated Loads (lb)
   Vert: 18=-225(B) 16=-150(B) 5=-24(B) 7=-24(B) 13=-150(B) 12=-222(B) 22=-24(B) 23=-24(B) 24=-24(B) 25=-24(B) 26=-24(B) 27=-24(B) 28=-24(B) 29=-24(B) 30=-516(B) 31=-150(B) 32=-150(B) 33=-150(B) 34=-150(B) 35=-150(B) 36=-150(B) 37=-150(B) 38=-150(B) 39=-222(B) 40=-222(B) 41=-224(B)

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312949 |
|---|---|---|---|---|---|
| 4460922 | T11 | Hip | 1 | 1 | Job Reference (optional) |

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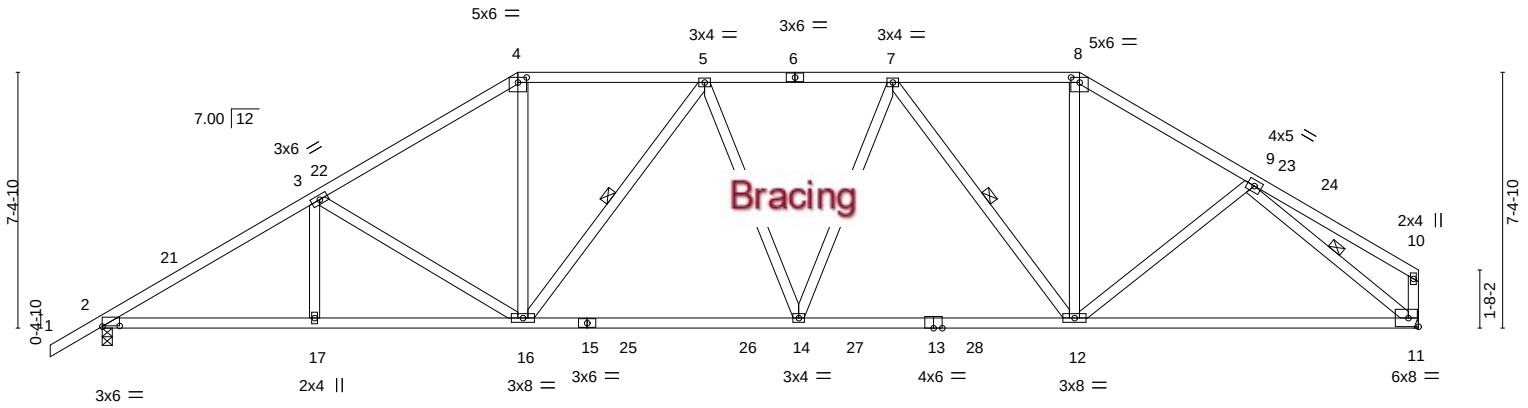
| -1-6-0 | 6-1-9 | 12-0-0 | 17-4-11 | 22-9-14 | 28-2-9 | 33-1-9 | 38-0-0 |
|---|---|---|---|---|---|---|---|
| 1-6-0 | 6-1-9 | 5-10-7 | 5-4-11 | 5-5-3 | 5-4-11 | 4-10-15 | 4-10-7 |

Scale = 1:66.5




| 6-1-9 | 12-0-0 | 20-1-5 | 28-2-9 | 38-0-0 |
|---|---|---|---|---|
| 6-1-9 | 5-10-7 | 8-1-5 | 8-1-5 | 9-9-7 |

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

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.56 | Vert(LL) | -0.24 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.99 | Vert(CT) | -0.50 | 11-12 | >904 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.12 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 223 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 3-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-16, 7-12, 9-11

**REACTIONS.** (size) 2=0-3-8, 11=Mechanical
Max Horz 2=237(LC 9)
Max Uplift 2=-617(LC 12), 11=-543(LC 13)
Max Grav 2=1611(LC 2), 11=1549(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2641/943, 3-4=-2196/816, 4-5=-1850/774, 5-7=-2122/800, 7-8=-1650/678, 8-9=-1955/716
BOT CHORD 2-17=-906/2232, 16-17=-906/2232, 14-16=-693/2091, 12-14=-627/2024, 11-12=-513/1493
WEBS 3-16=-602/346, 4-16=-211/847, 5-16=-482/338, 7-14=-125/340, 7-12=-679/382, 8-12=-197/746, 9-12=-162/277, 9-11=-1814/666

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-3-10, Zone1 2-3-10 to 12-0-0, Zone2 12-0-0 to 17-4-11, Zone1 17-4-11 to 28-2-9, Zone2 28-2-9 to 33-7-1, Zone1 33-7-1 to 37-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 617 lb uplift at joint 2 and 543 lb uplift at joint 11.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025




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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312950 |
|---|---|---|---|---|---|
| 4460922 | T12 | Hip | 1 | 1 | Job Reference (optional) |

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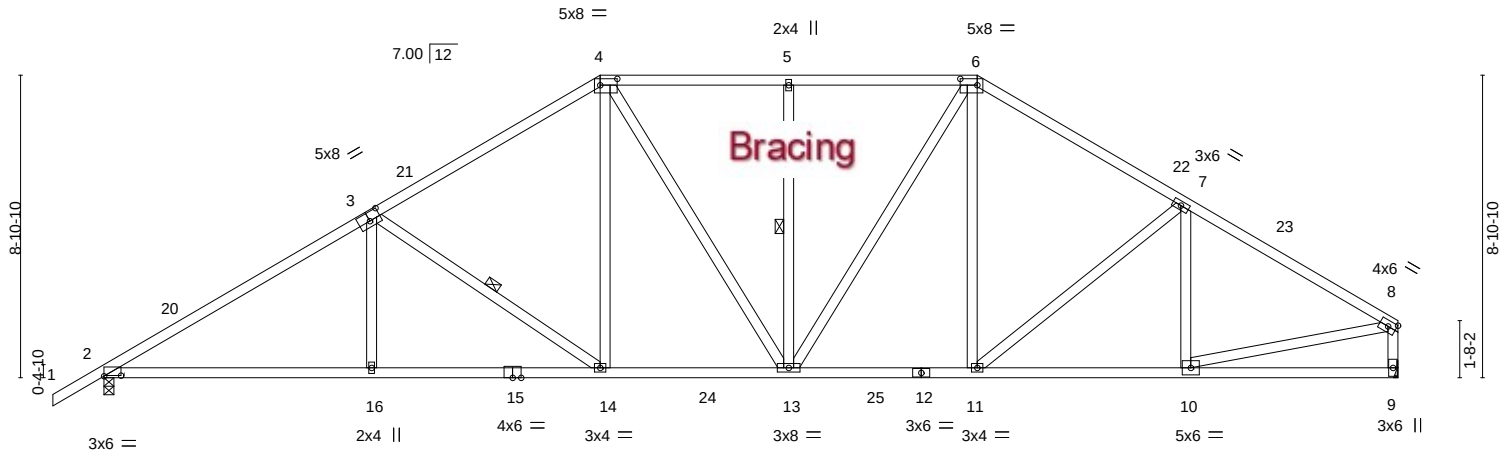
| -1-6-0 | 7-10-5 | 14-6-14 | 20-1-5 | 25-7-12 | 31-9-4 | 38-0-0 |
|---|---|---|---|---|---|---|
| 1-6-0 | 7-10-5 | 6-8-9 | 5-6-7 | 5-6-7 | 6-1-8 | 6-2-12 |

Scale = 1:67.7




| 7-10-5 | 14-6-14 | 20-1-5 | 25-7-12 | 31-9-4 | 38-0-0 |
|---|---|---|---|---|---|
| 7-10-5 | 6-8-9 | 5-6-7 | 5-6-7 | 6-1-8 | 6-2-12 |

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

| 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 | 0.62 | Vert(LL) | -0.15 | 16-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.84 | Vert(CT) | -0.28 | 16-19 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.60 | Horz(CT) | 0.10 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 236 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-4 oc bracing.
WEBS 1 Row at midpt 3-14, 5-13

**REACTIONS.** (size) 2=0-3-8, 9=Mechanical
Max Horz 2=285(LC 9)
Max Uplift 2=-611(LC 12), 9=-535(LC 13)
Max Grav 2=1604(LC 2), 9=1541(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2563/903, 3-4=-1988/754, 4-5=-1739/744, 5-6=-1739/744, 6-7=-1840/716, 7-8=-1955/678, 8-9=-1441/548
BOT CHORD 2-16=-879/2209, 14-16=-879/2217, 13-14=-525/1649, 11-13=-374/1527, 10-11=-498/1637
WEBS 3-16=0/314, 3-14=-782/426, 4-14=-191/664, 4-13=-258/293, 5-13=-337/269, 6-13=-283/470, 6-11=-116/428, 7-11=-304/239, 8-10=-475/1586

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-3-10, Zone1 2-3-10 to 14-6-14, Zone2 14-6-14 to 20-1-5, Zone1 20-1-5 to 25-7-12, Zone2 25-7-12 to 31-0-4, Zone1 31-0-4 to 37-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 611 lb uplift at joint 2 and 535 lb uplift at joint 9.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312951 |
|---|---|---|---|---|---|
| 4460922 | T13 | Scissor | 4 | 1 | Job Reference (optional) |

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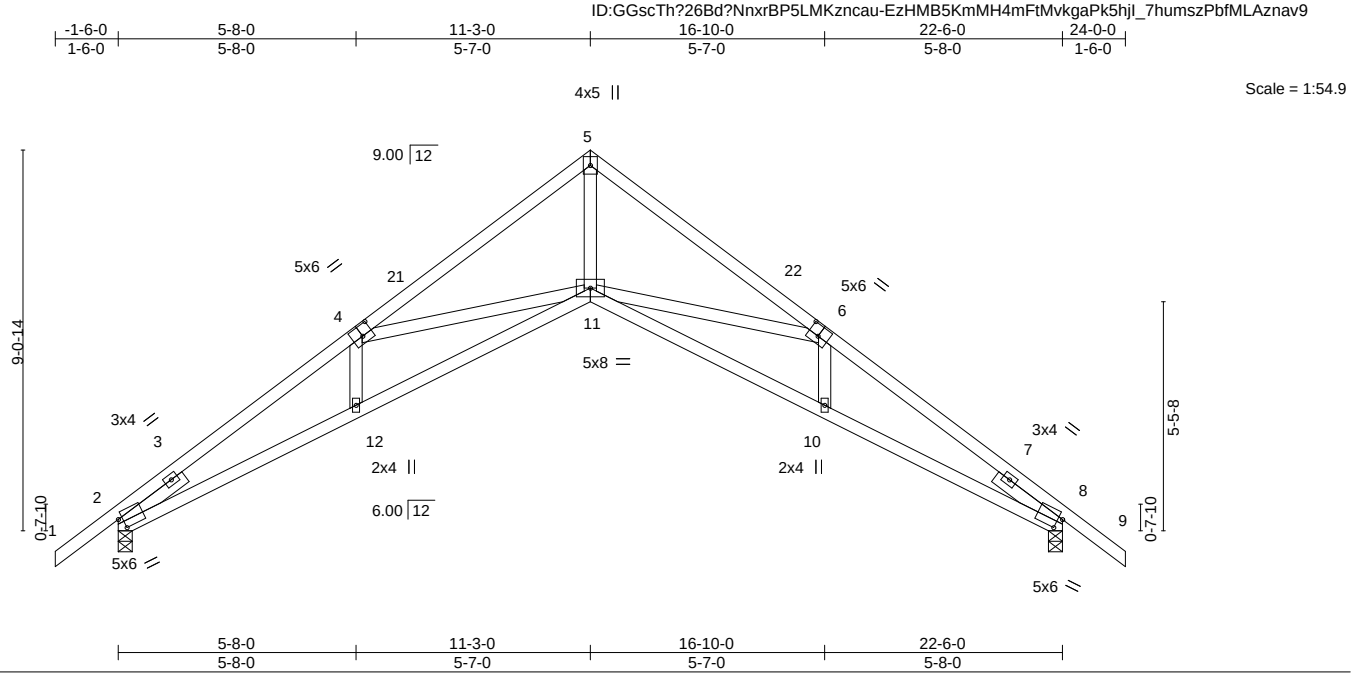


Plate Offsets (X,Y)-- [2:0-1-3,0-3-3], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-1-4,0-3-3], [8:0-0-0,0-0-0]

| 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 | 0.67 | Vert(LL) | 0.26 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.75 | Vert(CT) | -0.43 | 11-12 | >623 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.71 | Horz(CT) | 0.46 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 117 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-6-7 oc bracing.

**REACTIONS.** (size) 2=0-4-0, 8=0-4-0
Max Horz 2=305(LC 11)
Max Uplift 2=-352(LC 12), 8=-352(LC 13)
Max Grav 2=914(LC 1), 8=914(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2371/1604, 4-5=-1891/972, 5-6=-1891/951, 6-8=-2372/1640
BOT CHORD 2-12=-1166/2019, 11-12=-1085/2067, 10-11=-1157/2068, 8-10=-1236/2020
WEBS 4-11=-450/723, 5-11=-939/1867, 6-11=-450/714

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-3-0, Zone2 11-3-0 to 15-5-14, Zone1 15-5-14 to 24-0-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 2 and 352 lb uplift at joint 8.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312952 |
|---|---|---|---|---|---|
| 4460922 | T13G | GABLE | 1 | 1 | Job Reference (optional) |

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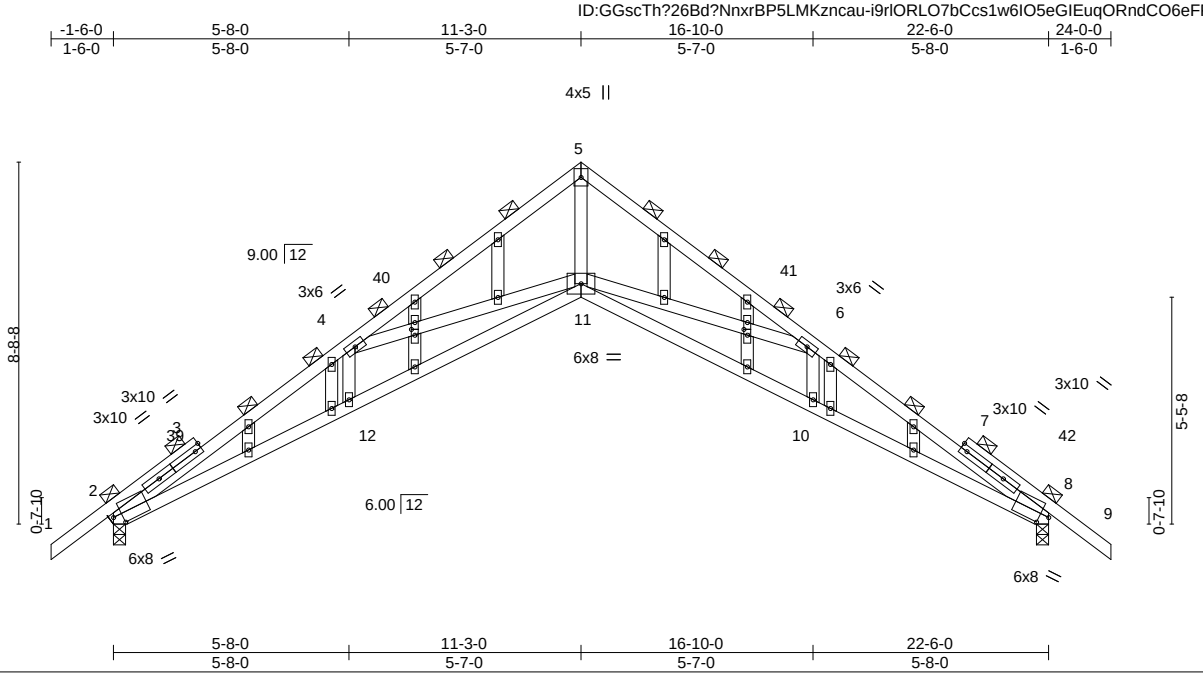


Plate Offsets (X,Y)-- [2:0-2-9,0-2-12], [6:0-0-0,0-0-0], [8:0-2-9,0-2-12], [10:0-0-0,0-0-0], [15:0-1-11,0-1-0], [22:0-0-0,0-0-0], [26:0-0-0,0-0-0], [26:0-1-11,0-1-0]

| 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 | 0.69 | Vert(LL) | 0.37 | 11-12 | >722 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.89 | Vert(CT) | -0.63 | 11-12 | >432 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.82 | Horz(CT) | 0.66 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 133 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except*
1-3,7-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

**BRACING-**
TOP CHORD 2-0-0 oc purlins (2-11-5 max.).
BOT CHORD Rigid ceiling directly applied or 4-5-1 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8
Max Horz 2=293(LC 11)
Max Uplift 2=-355(LC 12), 8=-355(LC 13)
Max Grav 2=914(LC 1), 8=914(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2882/1979, 4-5=-2139/1086, 5-6=-2140/1064, 6-8=-2882/2027
BOT CHORD 2-12=-1559/2577, 11-12=-1480/2613, 10-11=-1562/2613, 8-10=-1639/2577
WEBS 4-11=-742/996, 5-11=-1083/2156, 6-11=-741/990

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-3-0, Zone2 11-3-0 to 15-5-14, Zone1 15-5-14 to 24-0-0 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 2 and 355 lb uplift at joint 8.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 10,2025



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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312953 |
|---|---|---|---|---|---|
| 4460922 | T14 | Scissor | 4 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:37 2025 Page 1
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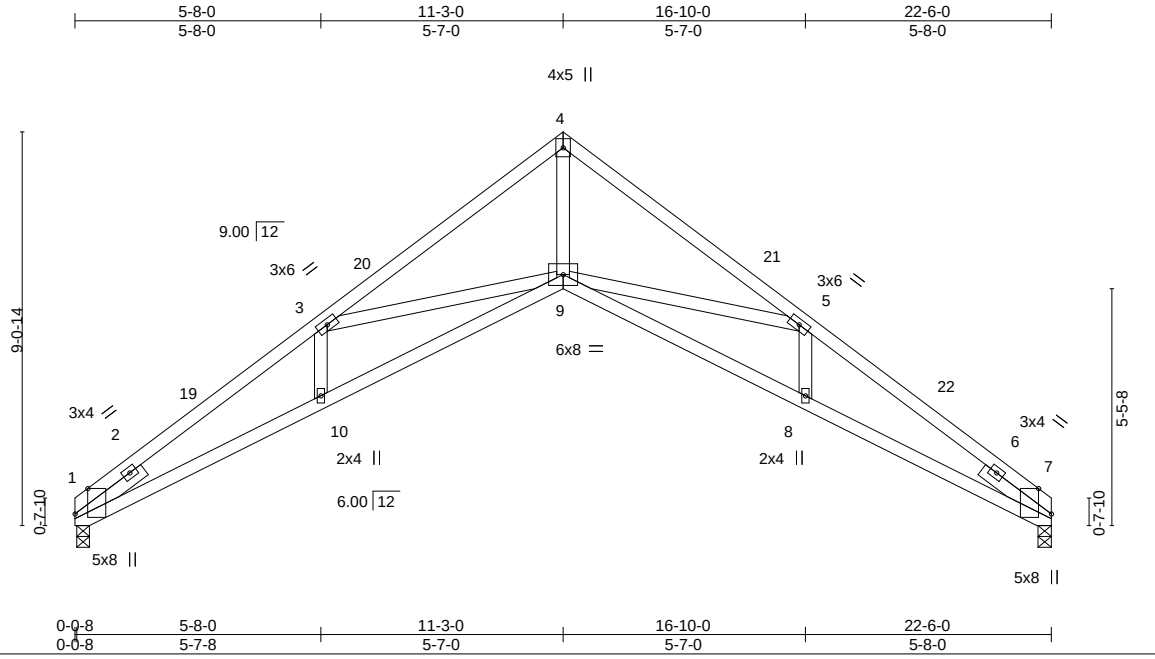


| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | 0.28 | 9-10 | >964 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.99 | Vert(CT) | -0.46 | 9-10 | >589 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.49 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 112 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

**REACTIONS.** (size) 7=0-3-11, 1=0-3-8
Max Horz 1=-269(LC 8)
Max Uplift 7=-300(LC 13), 1=-300(LC 12)
Max Grav 7=833(LC 1), 1=833(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2422/1764, 3-4=-1915/1084, 4-5=-1915/1100, 5-7=-2423/1777
BOT CHORD 1-10=-1392/2069, 9-10=-1318/2112, 8-9=-1301/2113, 7-8=-1376/2070
WEBS 3-9=-475/715, 4-9=-1087/1890, 5-9=-476/718

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-3-0, Zone2 11-3-0 to 15-5-14, Zone1 15-5-14 to 22-6-0 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 7, 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 300 lb uplift at joint 7 and 300 lb uplift at joint 1.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312954 |
|---|---|---|---|---|---|
| 4460922 | T15 | Roof Special | 1 | 1 | Job Reference (optional) |

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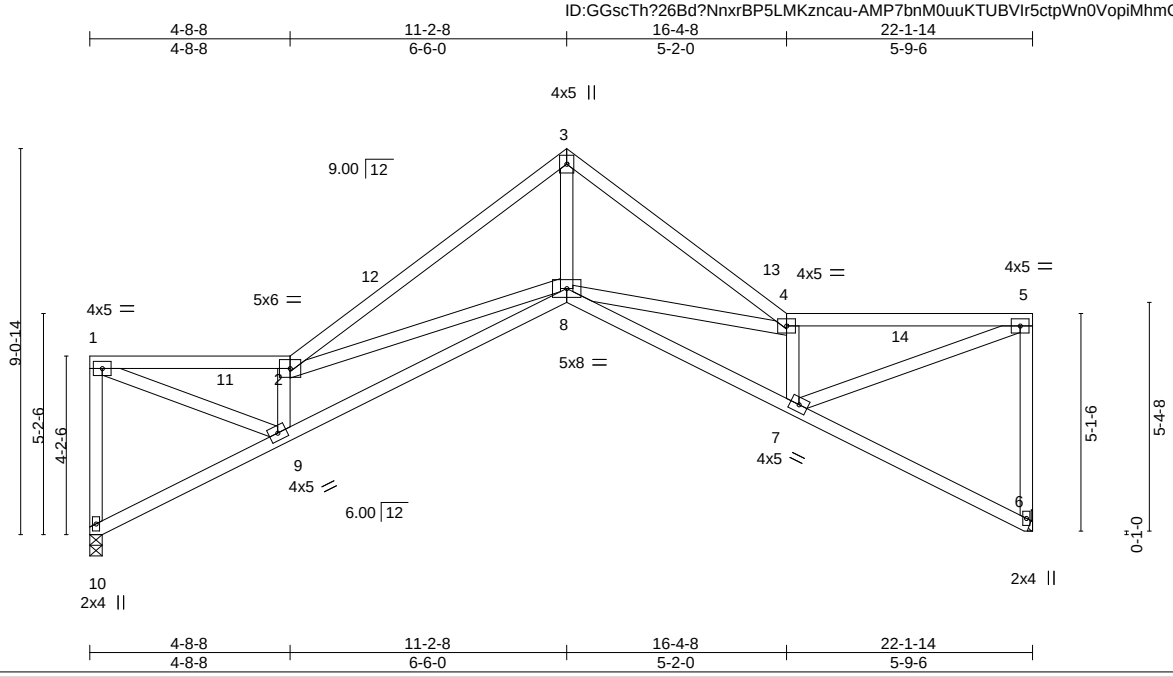


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.88 | Vert(LL) | 0.17 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.65 | Vert(CT) | -0.33 | 8-9 | >804 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.68 | Horz(CT) | 0.32 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-8-11 oc bracing.

**REACTIONS.** (size) 10=0-3-8, 6=Mechanical
Max Horz 10=151(LC 9)
Max Uplift 10=-293(LC 12), 6=-306(LC 13)
Max Grav 10=809(LC 1), 6=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-775/364, 1-2=-1684/742, 2-3=-1842/716, 3-4=-1817/759, 4-5=-1629/654, 5-6=-763/354
BOT CHORD 8-9=-1058/2047, 7-8=-790/1952
WEBS 1-9=-793/1798, 2-9=-1449/744, 2-8=-510/405, 3-8=-643/1749, 4-8=-413/313, 4-7=-1361/635, 5-7=-691/1723

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-2-8, Zone2 11-2-8 to 15-5-6, Zone1 15-5-6 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 10 and 306 lb uplift at joint 6.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312955 |
|---|---|---|---|---|---|
| 4460922 | T16 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:38 2025 Page 1
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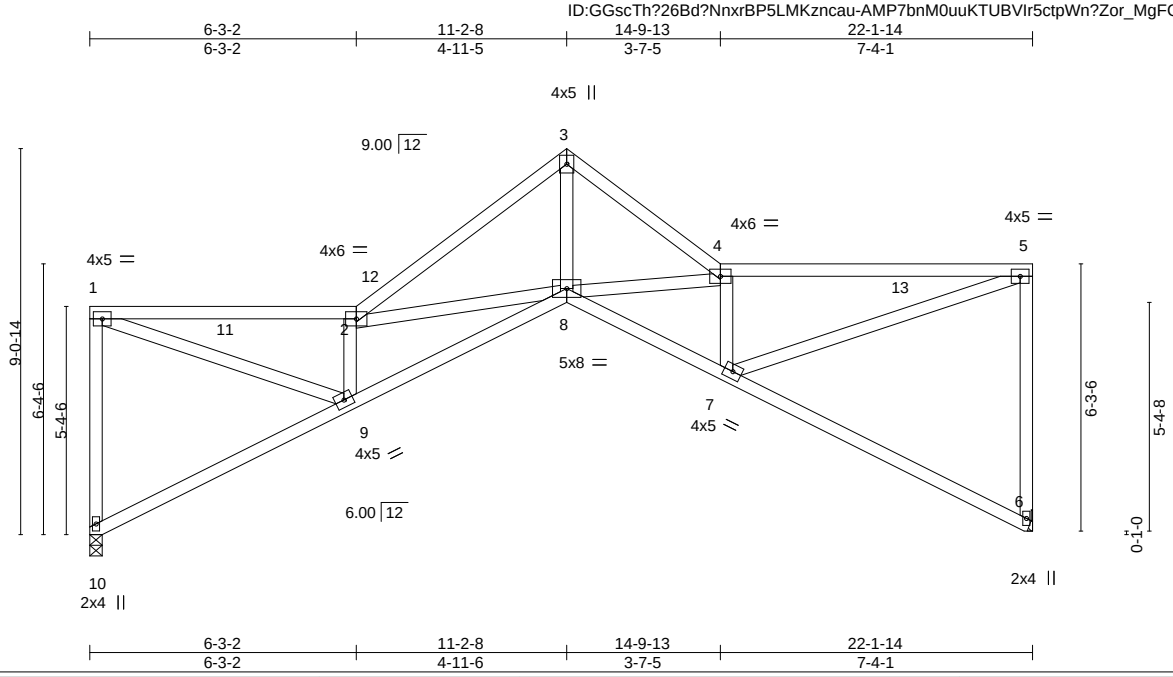


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.94 | Vert(LL) | 0.16 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.28 | 8-9 | >924 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.31 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 132 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-3 oc bracing.

**REACTIONS.** (size) 10=0-3-8, 6=Mechanical
Max Horz 10=113(LC 9)
Max Uplift 10=-297(LC 12), 6=-314(LC 13)
Max Grav 10=809(LC 1), 6=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-760/367, 1-2=-1684/699, 2-3=-1787/735, 3-4=-1768/778, 4-5=-1612/653, 5-6=-752/363
BOT CHORD 8-9=-961/2001, 7-8=-780/1893
WEBS 1-9=-732/1767, 2-9=-1359/662, 2-8=-461/305, 3-8=-734/1818, 4-8=-372/224, 4-7=-1268/613, 5-7=-681/1683

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-2-8, Zone3 11-2-8 to 14-9-13, Zone1 14-9-13 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 10 and 314 lb uplift at joint 6.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312956 |
|---|---|---|---|---|---|
| 4460922 | T17 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:39 2025 Page 1
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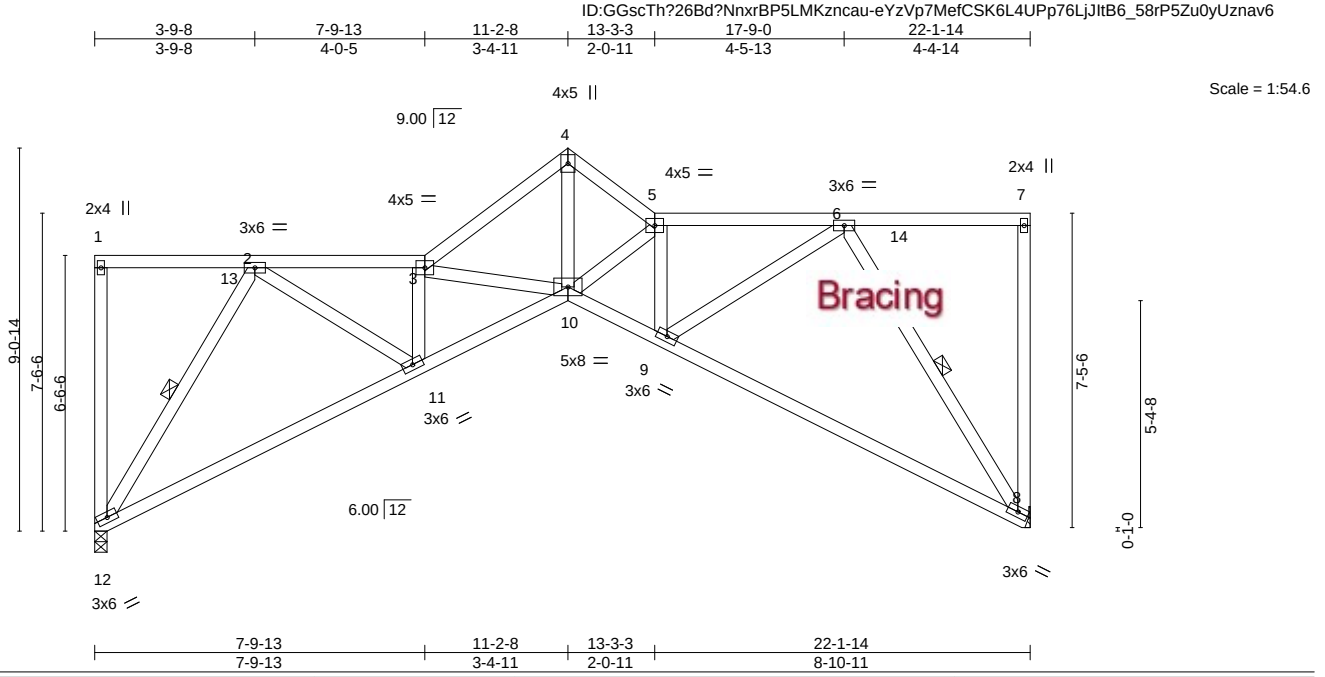


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.40 | Vert(LL) | -0.19 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.84 | Vert(CT) | -0.39 | 8-9 | >665 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.24 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 148 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-14 oc bracing.
WEBS 1 Row at midpt 6-8, 2-12

**REACTIONS.** (size) 12=0-3-8, 8=Mechanical
Max Horz 12=82(LC 12)
Max Uplift 12=-302(LC 12), 8=-324(LC 13)
Max Grav 12=809(LC 1), 8=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1612/621, 3-4=-1732/720, 4-5=-1702/749, 5-6=-1515/596
BOT CHORD 11-12=-375/651, 10-11=-823/1873, 9-10=-706/1726, 8-9=-282/662
WEBS 2-11=-471/1268, 3-11=-1107/518, 3-10=-364/189, 4-10=-750/1827, 5-10=-315/124, 5-9=-952/479, 6-9=-422/1152, 6-8=-1065/477, 2-12=-1080/490

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 11-2-8, Zone3 11-2-8 to 13-3-3, Zone1 13-3-3 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 12 and 324 lb uplift at joint 8.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312957 |
|---|---|---|---|---|---|
| 4460922 | T18 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:39 2025 Page 1
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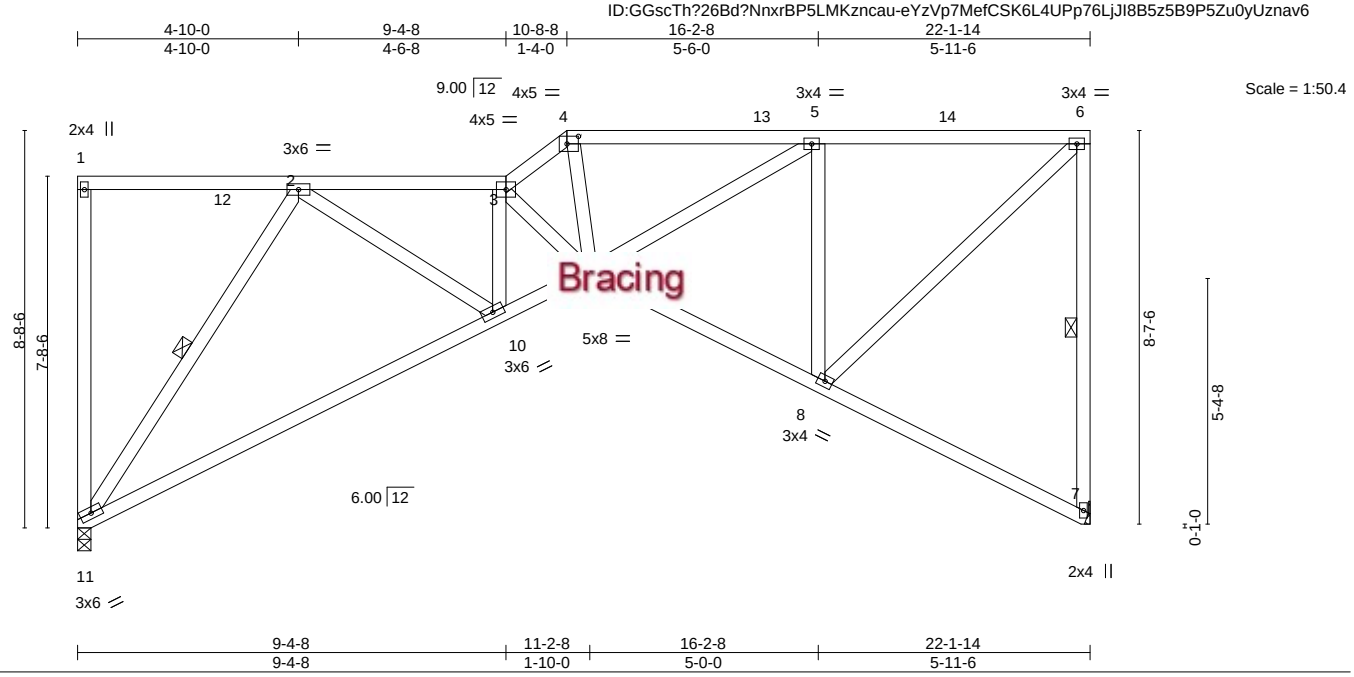


Plate Offsets (X,Y)-- [4:0-3-0,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.22 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.90 | Vert(CT) | -0.46 | 10-11 | >576 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.48 | Horz(CT) | 0.18 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 152 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 4-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-6 oc bracing.
WEBS 1 Row at midpt 6-7, 2-11

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical
Max Horz 11=50(LC 12)
Max Uplift 11=-349(LC 8), 7=-353(LC 8)
Max Grav 11=809(LC 1), 7=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1518/564, 3-4=-1704/693, 4-5=-1501/631, 5-6=-682/291, 6-7=-763/368
BOT CHORD 10-11=-348/700, 9-10=-705/1721, 8-9=-333/773
WEBS 2-11=-1081/503, 2-10=-374/1119, 3-10=-910/434, 3-9=-315/119, 4-9=-311/845, 5-9=-412/949, 5-8=-837/453, 6-8=-394/925

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-8-8, Zone2 10-8-8 to 14-11-6, Zone1 14-11-6 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 11 and 353 lb uplift at joint 7.

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312958 |
|---|---|---|---|---|---|
| 4460922 | T19 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:40 2025 Page 1
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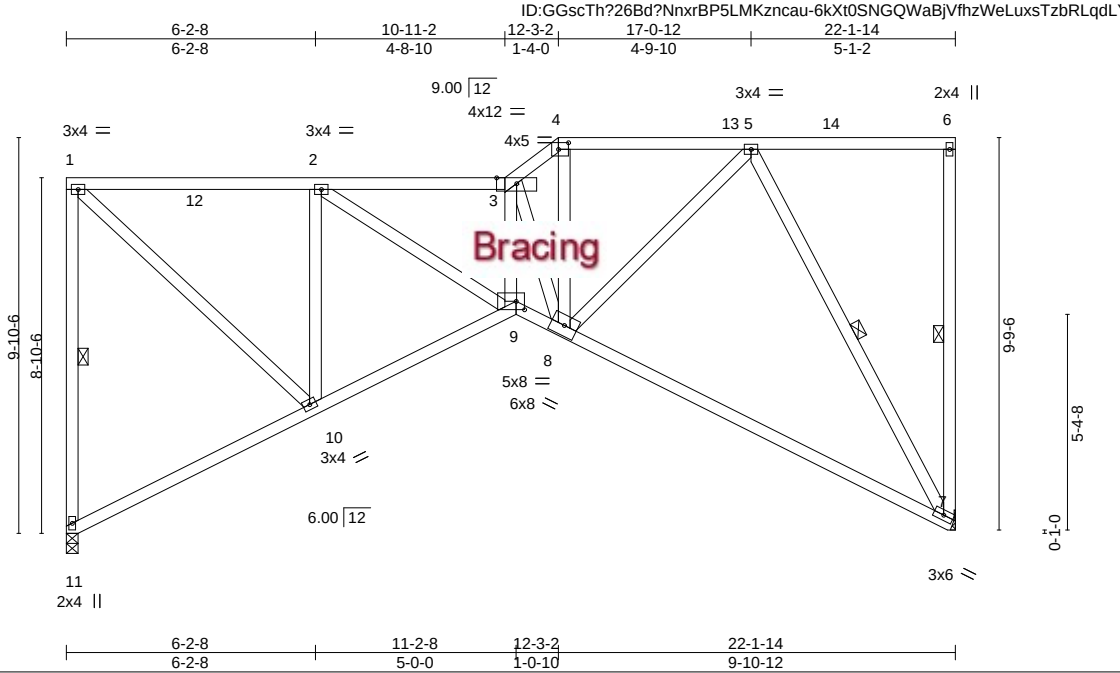


Scale = 1:57.4

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.25 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.96 | Vert(CT) | -0.51 | 7-8 | >518 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.55 | Horz(CT) | 0.16 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 166 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 4-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 1-11, 6-7, 5-7

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical
Max Horz 11=50(LC 12)
Max Uplift 11=-354(LC 8), 7=-348(LC 8)
Max Grav 11=809(LC 1), 7=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-761/369, 1-2=-680/288, 2-3=-1427/565, 3-4=-1196/435, 4-5=-975/382
BOT CHORD 9-10=-374/769, 8-9=-706/1568, 7-8=-239/546
WEBS 1-10=-387/916, 2-10=-819/444, 2-9=-348/878, 3-9=-329/477, 3-8=-1377/711, 4-8=-171/534, 5-8=-277/753, 5-7=-945/442

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-3-2, Zone2 12-3-2 to 16-6-1, Zone1 16-6-1 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 11 and 348 lb uplift at joint 7.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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Chesterfield, MO 63017
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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312959 |
|---|---|---|---|---|---|
| 4460922 | T20 | Roof Special | 1 | 1 | Job Reference (optional) |

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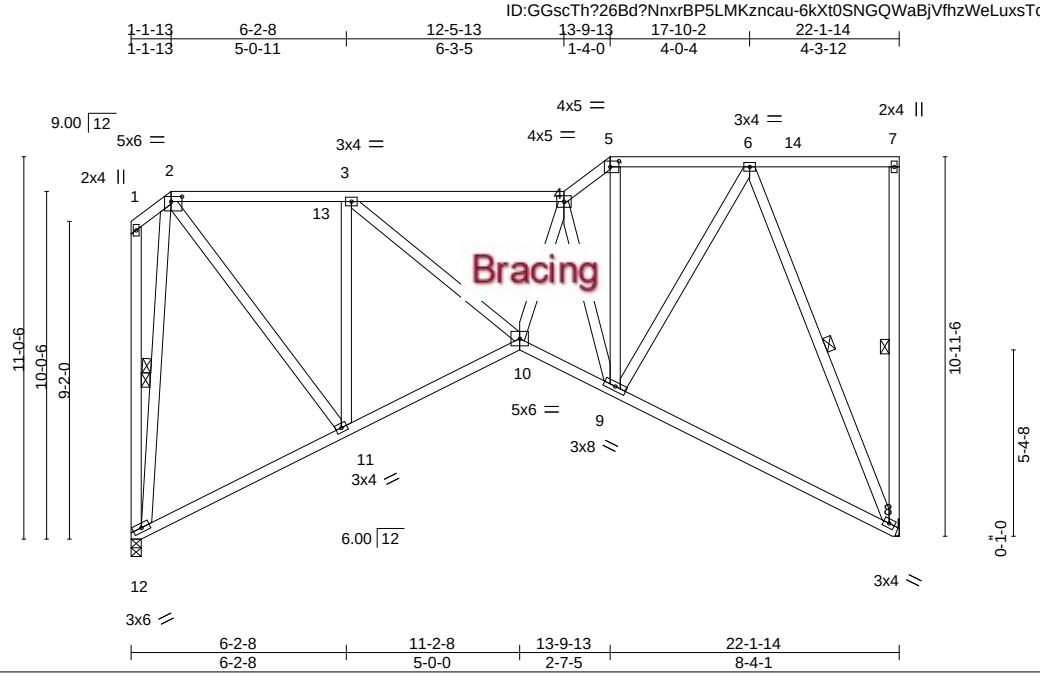


Plate Offsets (X,Y)-- [2:0-3-12,0-1-12], [5:0-3-0,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL 1.25 | TC | 0.40 | Vert(LL) | -0.14 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL 1.25 | BC | 0.66 | Vert(CT) | -0.30 | 8-9 | >888 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB | 0.67 | Horz(CT) | 0.12 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 197 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-7 oc bracing.
WEBS 1 Row at midpt 7-8, 6-8, 1-12, 2-12

**REACTIONS.** (size) 8=Mechanical, 12=0-3-8
Max Horz 12=89(LC 12)
Max Uplift 8=-340(LC 8), 12=-313(LC 12)
Max Grav 8=809(LC 1), 12=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-564/280, 3-4=-1015/441, 4-5=-822/329, 5-6=-639/280
BOT CHORD 10-11=-377/641, 9-10=-480/1004, 8-9=-177/397
WEBS 2-11=-339/802, 3-11=-746/414, 3-10=-225/593, 4-10=-240/383, 4-9=-1078/603, 5-9=-149/362, 6-9=-280/636, 6-8=-862/418, 2-12=-782/375

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 1-1-13, Zone2 1-1-13 to 5-4-12, Zone1 5-4-12 to 13-9-13, Zone2 13-9-13 to 17-10-2, Zone1 17-10-2 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 8 and 313 lb uplift at joint 12.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312960 |
|---|---|---|---|---|---|
| 4460922 | T21 | Roof Special | 1 | 1 | Job Reference (optional) |

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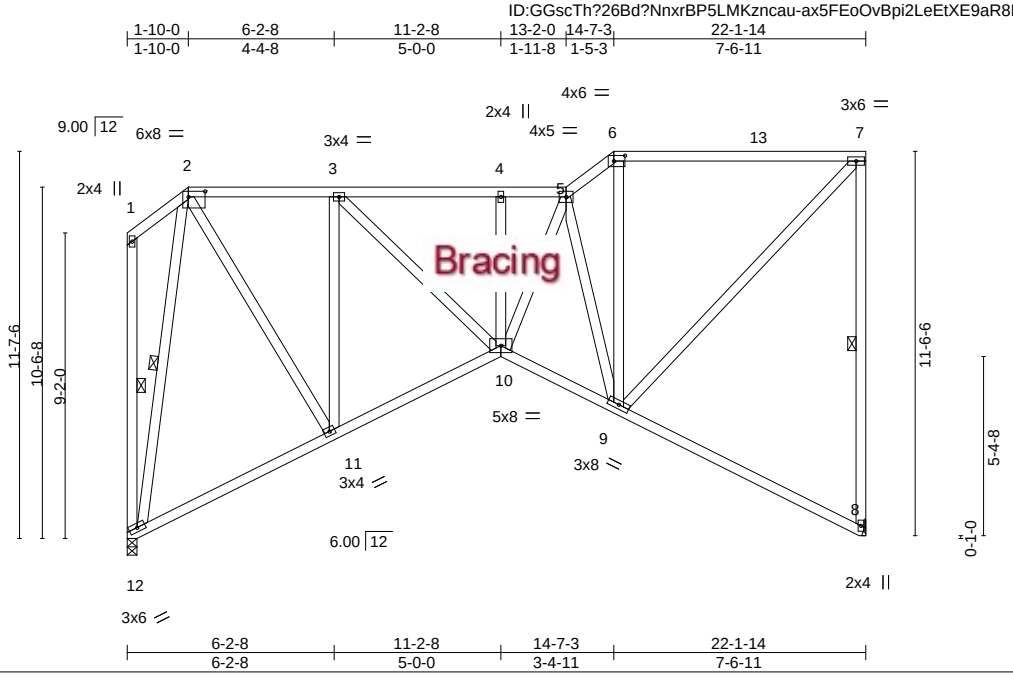


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0], [6:0-4-0,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.80 | Vert(LL) | -0.10 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.47 | Vert(CT) | -0.21 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.10 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 198 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 4-9-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.
WEBS 1 Row at midpt 7-8, 1-12, 2-12

**REACTIONS.** (size) 8=Mechanical, 12=0-3-8
Max Horz 12=118(LC 12)
Max Uplift 8=-331(LC 8), 12=-305(LC 12)
Max Grav 8=809(LC 1), 12=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-513/282, 3-4=-941/457, 4-5=-941/457, 5-6=-621/251, 6-7=-544/257, 7-8=-748/389
BOT CHORD 10-11=-383/585, 9-10=-420/826
WEBS 2-11=-307/741, 3-11=-692/382, 3-10=-241/592, 5-10=-372/538, 5-9=-827/507, 7-9=-366/774, 2-12=-793/364

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 1-10-0, Zone2 1-10-0 to 6-2-8, Zone1 6-2-8 to 14-7-3, Zone2 14-7-3 to 18-10-1, Zone1 18-10-1 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 331 lb uplift at joint 8 and 305 lb uplift at joint 12.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312961 |
|---|---|---|---|---|---|
| 4460922 | T22 | Half Hip | 1 | 1 | Job Reference (optional) |

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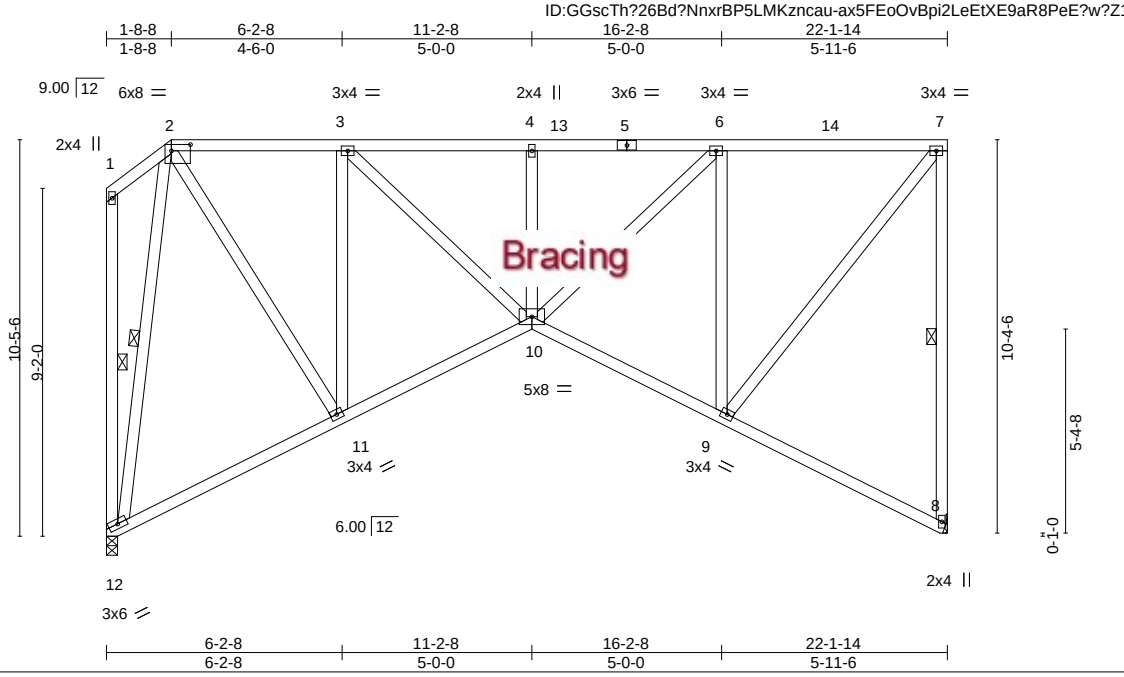


Plate Offsets (X,Y)-- [2:0-6-0,0-2-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.40 | Vert(LL) | 0.06 | 10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.36 | Vert(CT) | -0.10 | 11-12 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.75 | Horz(CT) | 0.10 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 185 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 5-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 1-12, 2-12

**REACTIONS.** (size) 8=Mechanical, 12=0-3-8
Max Horz 12=60(LC 12)
Max Uplift 8=-401(LC 9), 12=-339(LC 9)
Max Grav 8=809(LC 1), 12=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-519/276, 3-4=-965/496, 4-6=-965/496, 6-7=-512/256, 7-8=-761/415
BOT CHORD 10-11=-317/598, 9-10=-294/590
WEBS 2-11=-344/747, 3-11=-700/423, 3-10=-302/610, 6-10=-330/621, 6-9=-754/479, 7-9=-403/806, 2-12=-793/389

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 1-8-8, Zone2 1-8-8 to 6-2-8, Zone1 6-2-8 to 22-0-2 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 401 lb uplift at joint 8 and 339 lb uplift at joint 12.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312962 |
|---|---|---|---|---|---|
| 4460922 | T23 | Roof Special | 1 | 1 | Job Reference (optional) |

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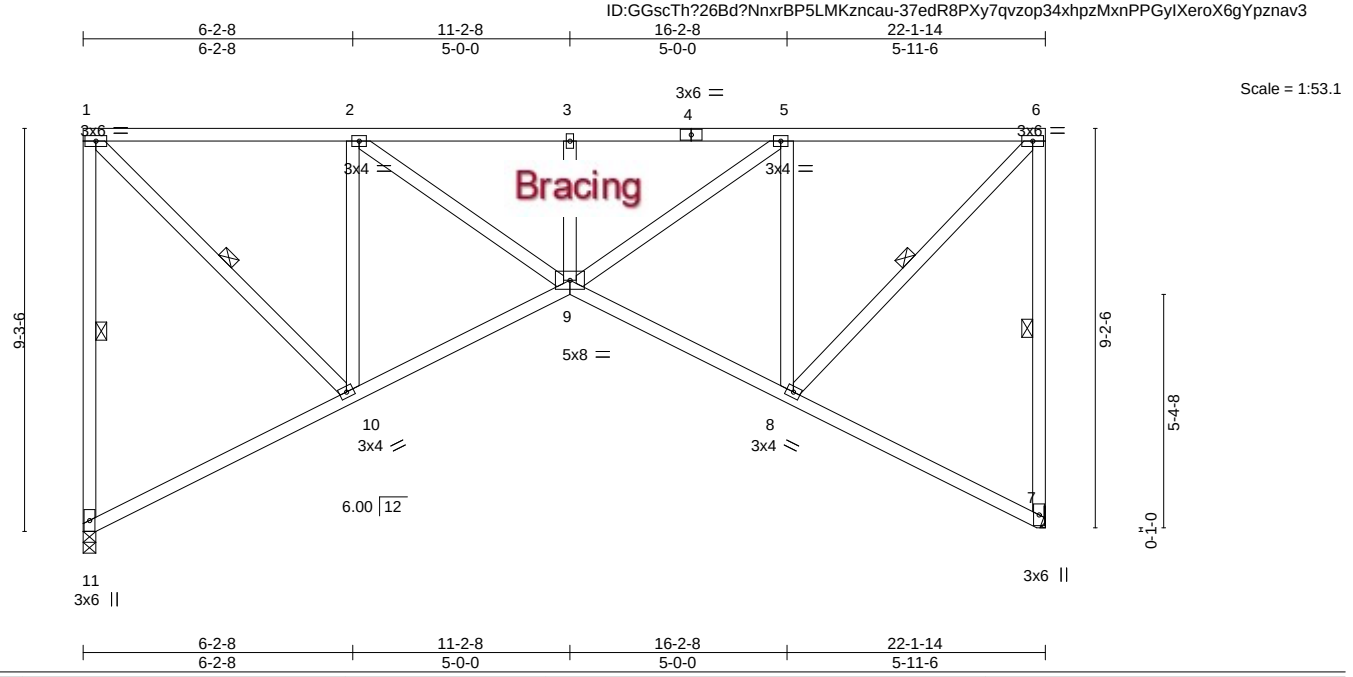


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | 0.09 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.37 | Vert(CT) | -0.11 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.56 | Horz(CT) | 0.13 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 159 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 4-10-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing.
WEBS 1 Row at midpt 1-11, 6-7, 1-10, 6-8

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical
Max Uplift 11=-387(LC 8), 7=-387(LC 8)
Max Grav 11=809(LC 1), 7=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-759/770, 1-2=-630/587, 2-3=-1279/1197, 3-5=-1279/1197, 5-6=-612/570, 6-7=-762/769
BOT CHORD 9-10=-664/717, 8-9=-645/697
WEBS 1-10=-818/878, 2-10=-800/908, 2-9=-745/792, 3-9=-226/315, 5-9=-766/815, 5-8=-804/907, 6-8=-813/872

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 11 and 387 lb uplift at joint 7.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312963 |
|---|---|---|---|---|---|
| 4460922 | T24 | Roof Special | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:42 2025 Page 1
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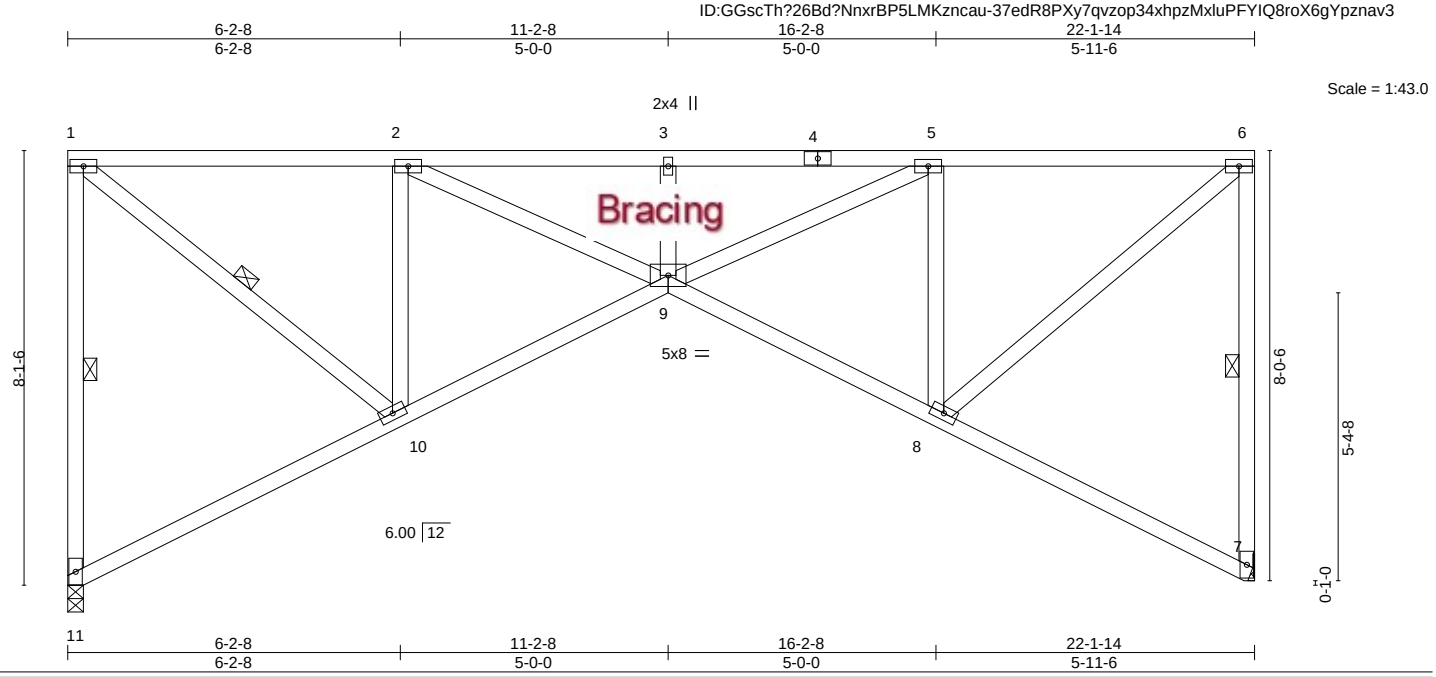


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.67 | Vert(LL) | 0.15 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.18 | 9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.20 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 146 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 3-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-6-6 oc bracing.
WEBS 1 Row at midpt 1-11, 6-7, 1-10

**REACTIONS.** (size) 11=0-3-8, 7=Mechanical
Max Uplift 11=-387(LC 8), 7=-387(LC 8)
Max Grav 11=809(LC 1), 7=809(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-760/771, 1-2=-783/729, 2-3=-1903/1781, 3-5=-1903/1781, 5-6=-760/708, 6-7=-762/770
BOT CHORD 9-10=-822/887, 8-9=-798/862
WEBS 1-10=-924/992, 2-10=-875/977, 2-9=-1162/1237, 3-9=-218/308, 5-9=-1185/1262, 5-8=-876/974, 6-8=-913/981

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 3x6 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 11 and 387 lb uplift at joint 7.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312964 |
|---|---|---|---|---|---|
| 4460922 | T25 | FLAT GIRDER | 1 | 1 | Job Reference (optional) |

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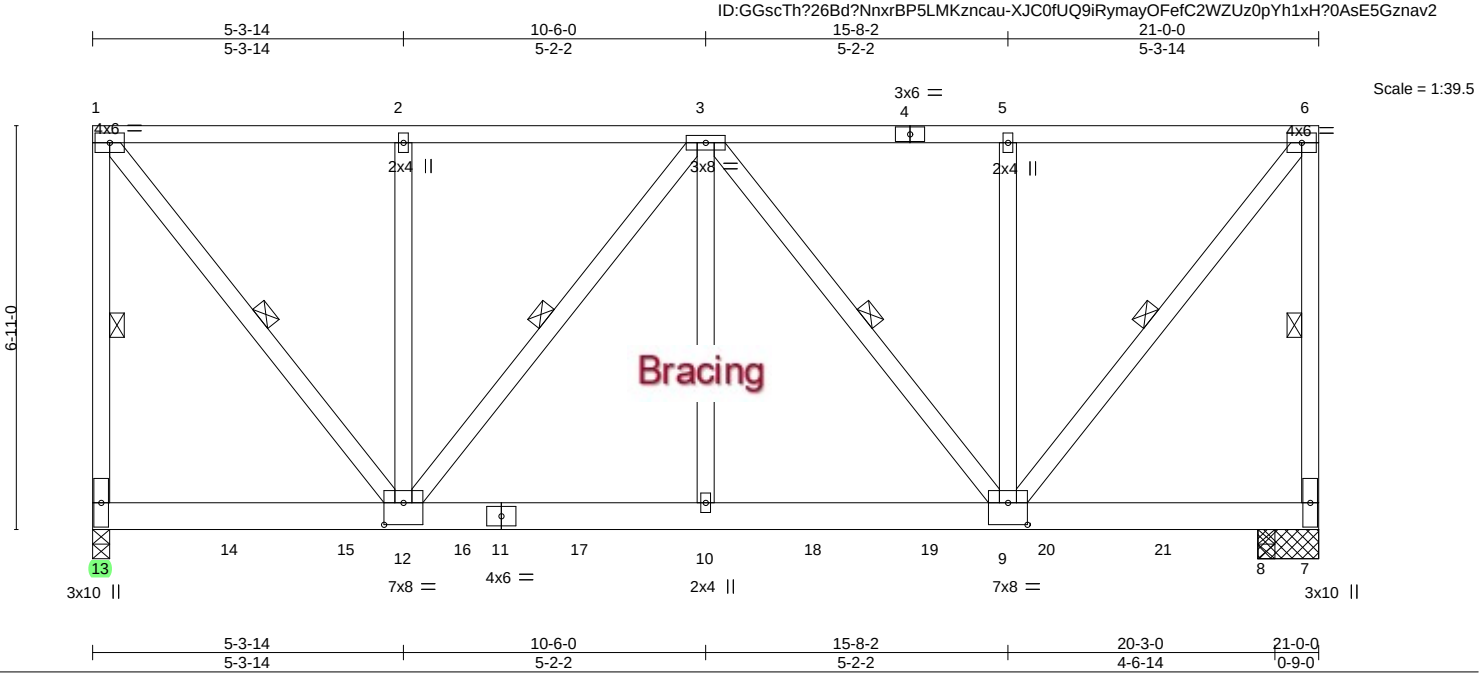


Plate Offsets (X,Y)-- [9:0-4-0,0-4-8], [12:0-4-0,0-4-8]

| 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 | 0.45 | Vert(LL) | 0.09 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.11 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.73 | Horz(CT) | 0.02 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 173 lb | FT = 20% |

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

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

**REACTIONS.** (size) 13=0-3-8, 7=1-0-8, 8=0-3-8
Max Uplift 13=-1126(LC 4), 7=-639(LC 4), 8=-482(LC 4)
Max Grav 13=2071(LC 1), 7=1038(LC 1), 8=823(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-1628/921, 1-2=-1205/663, 2-3=-1205/663, 3-5=-1057/628, 5-6=-1057/628, 6-7=-1449/879
BOT CHORD 10-12=-861/1515, 9-10=-861/1515
WEBS 1-12=-1057/1921, 2-12=-303/239, 3-12=-500/319, 3-10=-340/720, 3-9=-737/376, 5-9=-306/237, 6-9=-1005/1696

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1126 lb uplift at joint 13, 639 lb uplift at joint 7 and 482 lb uplift at joint 8.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 269 lb down and 146 lb up at 0-1-12, 261 lb down and 154 lb up at 2-4-4, 261 lb down and 154 lb up at 4-4-4, 261 lb down and 154 lb up at 6-4-4, 261 lb down and 154 lb up at 8-4-4, 261 lb down and 154 lb up at 10-4-4, 188 lb down and 149 lb up at 12-4-4, 188 lb down and 149 lb up at 14-4-4, 188 lb down and 149 lb up at 16-4-4, and 188 lb down and 149 lb up at 18-4-4, and 193 lb down and 144 lb up at 20-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-54, 7-13=-20

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Continued on page 2



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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 13=-261(B) 10=-253(B) 8=-179(B) 14=-253(B) 15=-253(B) 16=-253(B) 17=-253(B) 18=-174(B) 19=-174(B) 20=-174(B) 21=-174(B)

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312965 |
|---|---|---|---|---|---|
| 4460922 | T26 | Common Girder | 1 | 2 | Job Reference (optional) |

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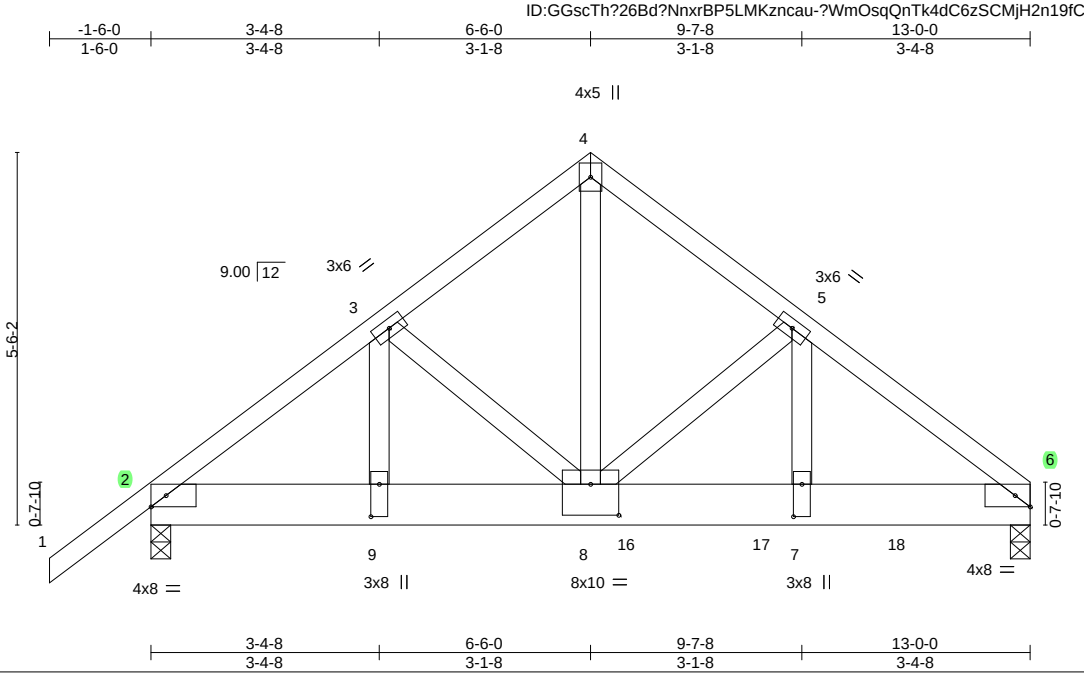


Plate Offsets (X,Y)-- [6:0-2-11,Edge], [7:0-5-12,0-1-8], [8:0-5-0,0-5-8], [9:0-5-12,0-1-8]

| 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 | 0.33 | Vert(LL) | 0.06 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | -0.08 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.86 | Horz(CT) | 0.01 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 184 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=0-3-8, 2=0-3-8
Max Horz 2=179(LC 5)
Max Uplift 6=-2328(LC 9), 2=-1581(LC 8)
Max Grav 6=4371(LC 1), 2=2669(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3666/2185, 3-4=-3953/2479, 4-5=-3951/2473, 5-6=-5794/3227
BOT CHORD 2-9=-1762/2881, 8-9=-1762/2881, 7-8=-2518/4586, 6-7=-2518/4586
WEBS 4-8=-2837/4492, 5-8=-2016/953, 5-7=-978/2370, 3-8=-466/491, 3-9=-530/411

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) 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.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2328 lb uplift at joint 6 and 1581 lb uplift at joint 2.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3240 lb down and 2431 lb up at 7-0-12, and 1529 lb down and 563 lb up at 9-0-12, and 1521 lb down and 555 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 10-13=-20

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Continued on page 2



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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 16=-3240(F) 17=-1379(F) 18=-1379(F)

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312966 |
|---|---|---|---|---|---|
| 4460922 | T26G | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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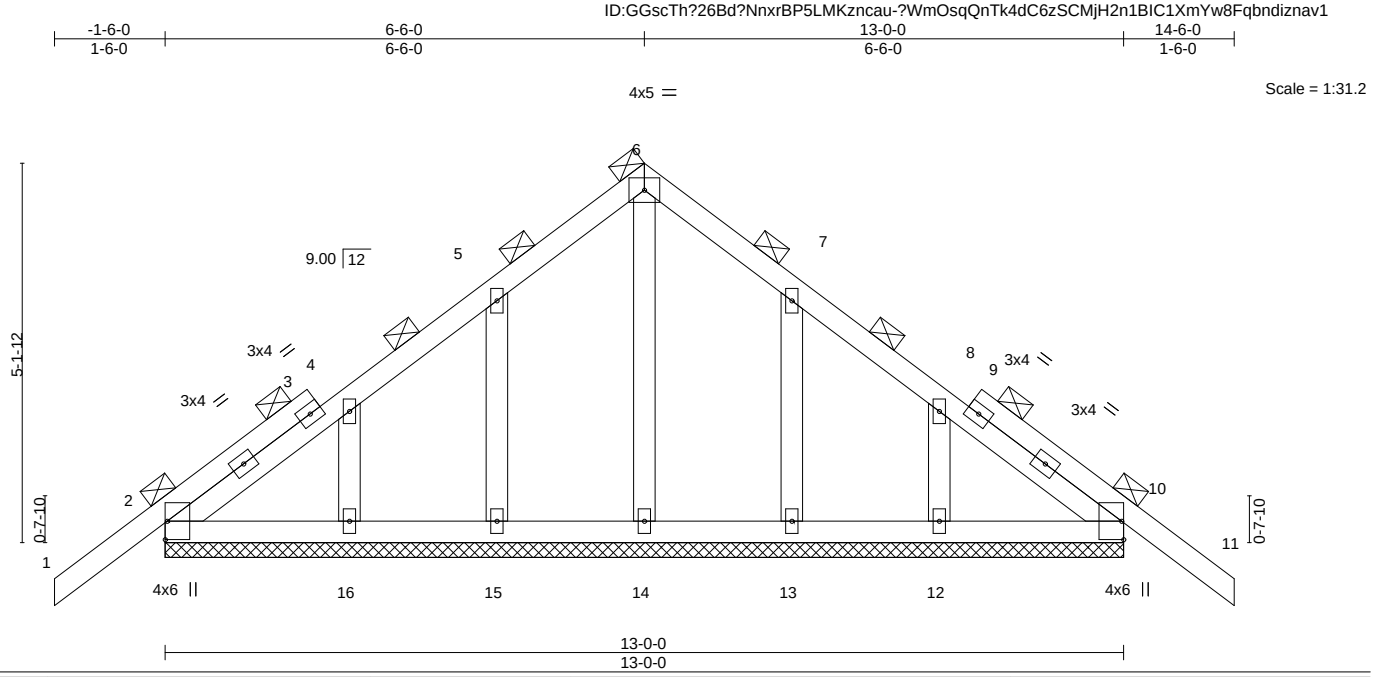


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | -0.01 | 11 | n/r | 120 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | -0.01 | 11 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 77 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 10-0-0 oc bracing.

**REACTIONS.** All bearings 13-0-0.
(lb) - Max Horz 2=-180(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 15=-136(LC 12), 16=-122(LC 12), 13=-135(LC 13), 12=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 15=136, 16=122, 13=135, 12=124.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312967 |
|---|---|---|---|---|---|
| 4460922 | T27 | Common | 4 | 1 | Job Reference (optional) |

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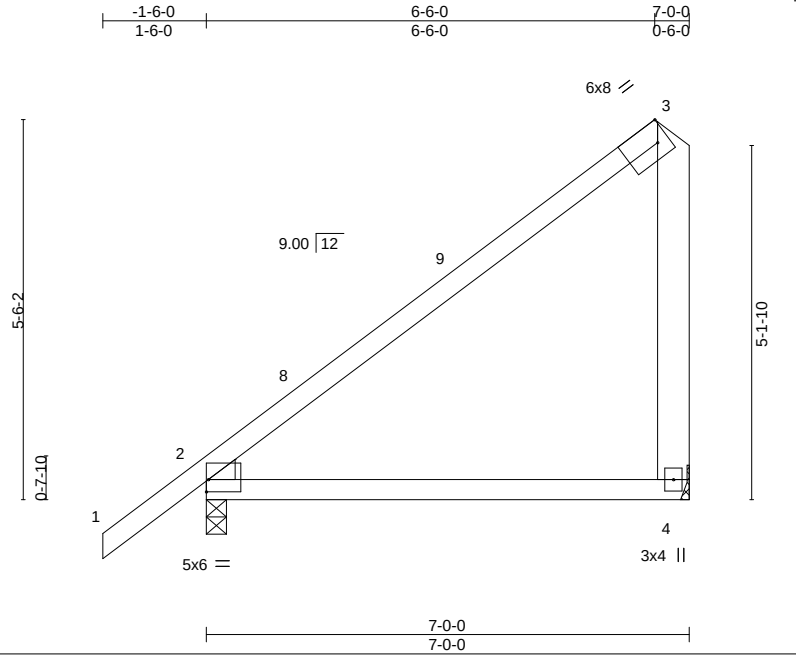


Plate Offsets (X,Y)-- [2:Edge,0-2-2], [3:0-2-0,Edge]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.76 | Vert(LL) | 0.14 | 4-7 | >580 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.73 | Vert(CT) | -0.16 | 4-7 | >517 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.03 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 38 lb | FT = 20% |

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

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

**REACTIONS.** (size) 2=0-3-8, 4=Mechanical
Max Horz 2=301(LC 12)
Max Uplift 2=-72(LC 12), 4=-219(LC 12)
Max Grav 2=340(LC 1), 4=282(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-219/374

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=219.

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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312968 |
|---|---|---|---|---|---|
| 4460922 | T28 | Jack-Closed | 6 | 1 | Job Reference (optional) |

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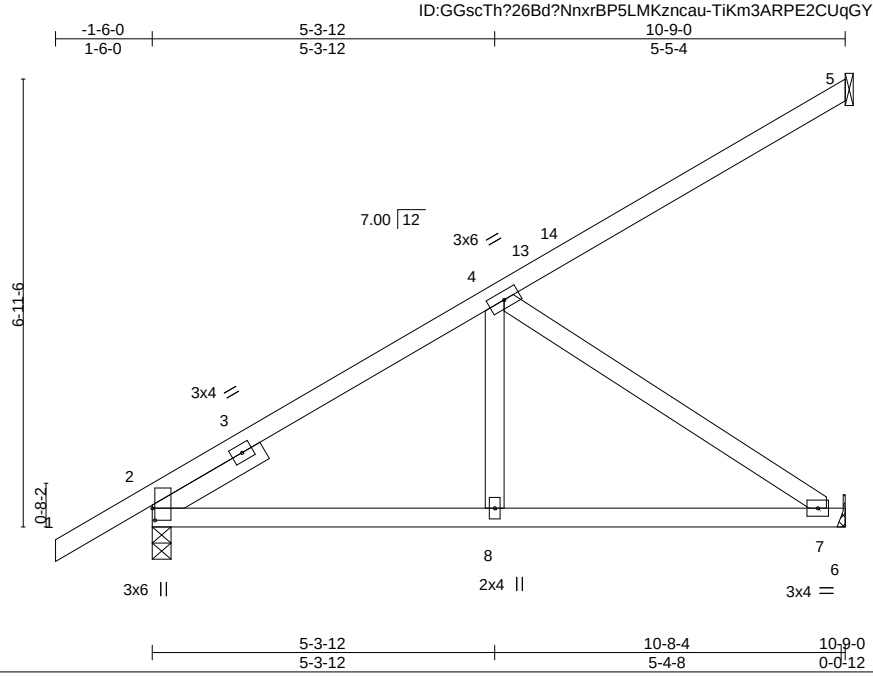


5-3-12 5-3-12 | 10-8-4 5-4-8 | 10-9-0 0-0-12

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

| 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 | 0.34 | Vert(LL) | -0.03 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.34 | Vert(CT) | -0.07 | 7-8 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 54 lb | FT = 20% |

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

**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) 5=Mechanical, 2=0-3-8, 6=Mechanical
Max Horz 2=306(LC 12)
Max Uplift 5=-80(LC 14), 2=-148(LC 12), 6=-134(LC 12)
Max Grav 5=134(LC 19), 2=482(LC 1), 6=302(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-358/60
BOT CHORD 2-8=-306/407, 7-8=-306/407
WEBS 4-8=0/254, 4-7=-491/369

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 10-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=148, 6=134.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 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 | RAYMONT RES. T36312969 |
|---|---|---|---|---|---|
| 4460922 | T29 | Jack-Closed | 5 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:46 2025 Page 1
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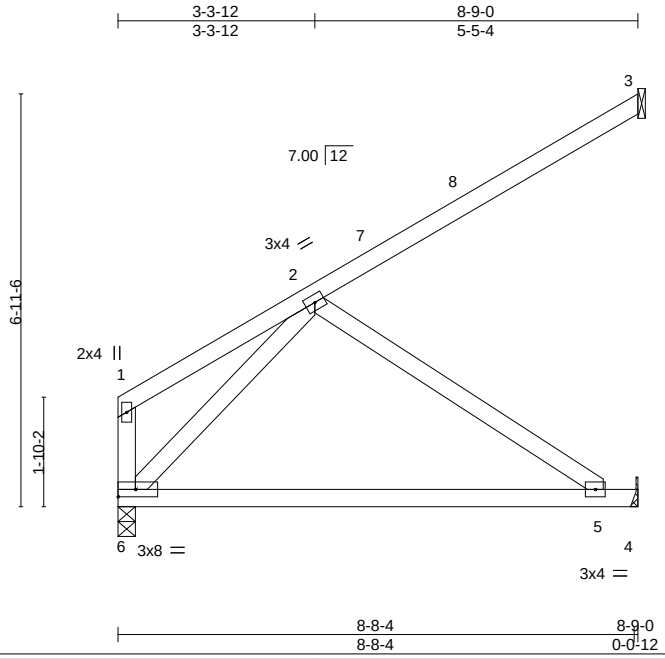


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.61 | Vert(LL) | -0.24 | 5-6 | >436 | 240 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.81 | Vert(CT) | -0.48 | 5-6 | >212 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.02 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 45 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) 3=Mechanical, 4=Mechanical, 6=0-3-8
Max Horz 6=224(LC 12)
Max Uplift 3=-91(LC 12), 4=-129(LC 12), 6=-42(LC 12)
Max Grav 3=139(LC 19), 4=224(LC 19), 6=316(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 5-6=-313/224
WEBS 2-5=-275/384

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-3-12, Zone1 3-3-12 to 8-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 6 except (jt=lb) 4=129.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312970 |
|---|---|---|---|---|---|
| 4460922 | V01 | GABLE | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:46 2025 Page 1
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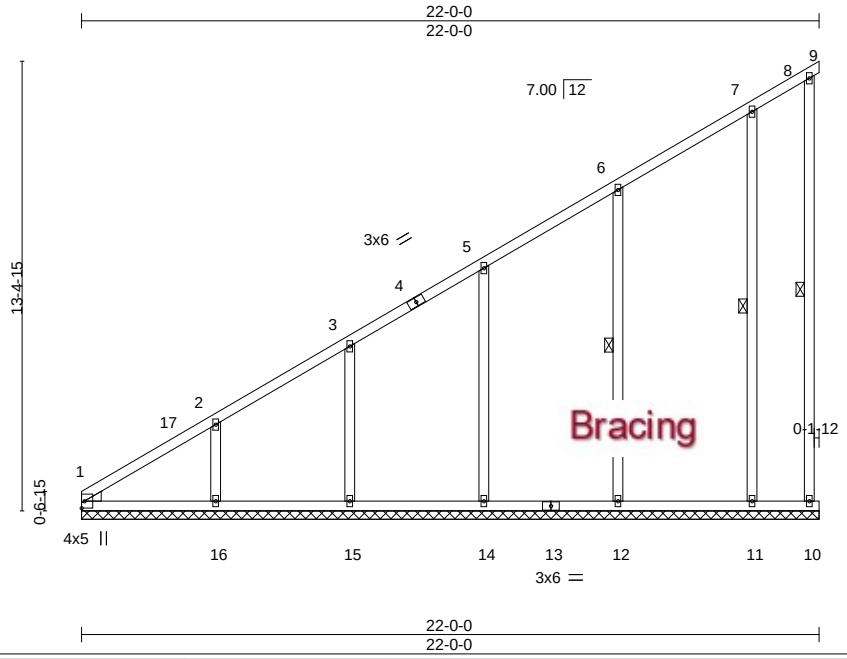


22-0-0
22-0-0

| 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 | 0.20 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.25 | Horz(CT) | -0.02 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 143 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 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 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-10, 6-12, 7-11

**REACTIONS.** All bearings 22-0-0.
(lb) - Max Horz 1=652(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 9, 10, 1 except 16=-282(LC 12), 15=-201(LC 12), 14=-210(LC 12), 12=-217(LC 12), 11=-171(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 10 except 1=334(LC 12), 16=448(LC 19), 15=405(LC 19), 14=452(LC 19), 12=463(LC 19), 11=358(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-719/422, 2-3=-543/316, 3-5=-412/243, 5-6=-278/167
WEBS 2-16=-288/298, 6-12=-257/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 22-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 10, 1 except (jt=lb) 16=282, 15=201, 14=210, 12=217, 11=171.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312971 |
|---|---|---|---|---|---|
| 4460922 | V02 | GABLE | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:47 2025 Page 1
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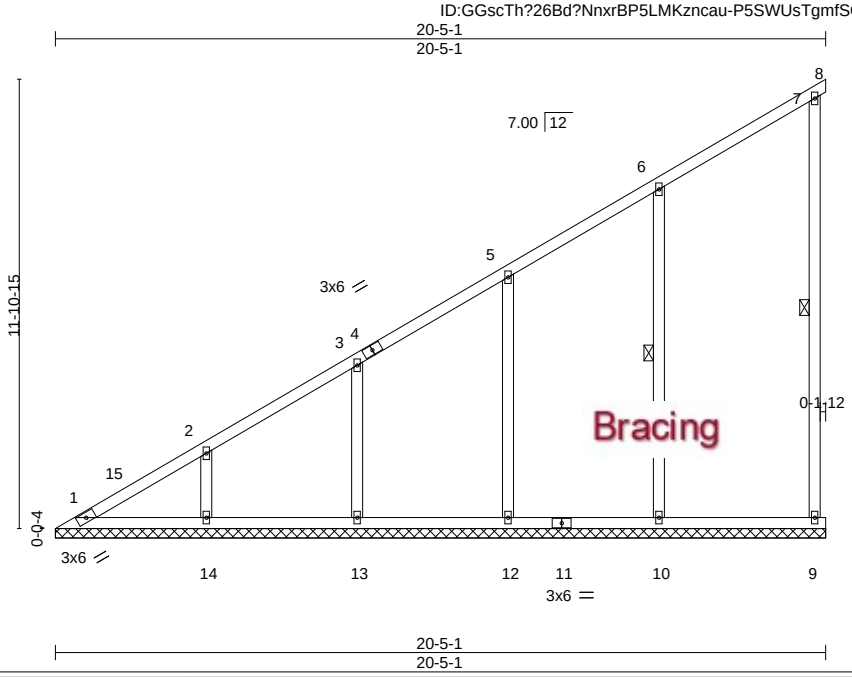


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.20 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.21 | Horz(CT) | -0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 113 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-9, 6-10 |

**REACTIONS.** All bearings 20-5-1.
(lb) - Max Horz 1=577(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 9=-197(LC 12), 14=-218(LC 12), 13=-209(LC 12), 12=-205(LC 12), 10=-226(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8 except 9=302(LC 19), 1=267(LC 12), 14=399(LC 19), 13=418(LC 19), 12=439(LC 19), 10=496(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-625/376, 2-3=-492/295, 3-5=-357/216
WEBS 2-14=-254/235, 6-10=-271/255

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 20-5-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 1 except (jt=lb) 9=197, 14=218, 13=209, 12=205, 10=226.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 10,2025



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314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312972 |
|---|---|---|---|---|---|
| 4460922 | V03 | GABLE | 2 | 1 | Job Reference (optional) |

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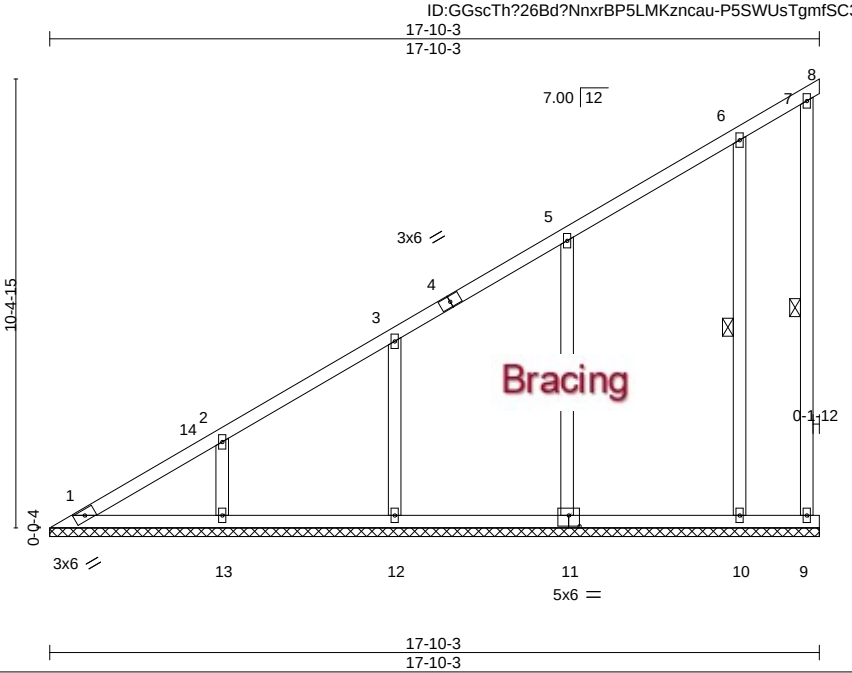


17-10-3
17-10-3

Plate Offsets (X,Y)-- [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 | 0.17 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.18 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.22 | Horz(CT) | -0.01 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 102 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 6-0-0 oc bracing. |
| WEBS | 1 Row at midpt 7-9, 6-10 |

**REACTIONS.** All bearings 17-10-3.
(lb) - Max Horz 1=503(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 1 except 13=-219(LC 12), 12=-205(LC 12), 11=-217(LC 12), 10=-170(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 1 except 13=401(LC 19), 12=412(LC 19), 11=469(LC 19), 10=353(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-538/341, 2-3=-405/256, 3-5=-272/175
WEBS 2-13=-255/236, 5-11=-257/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 17-10-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 1 except (jt=lb) 13=219, 12=205, 11=217, 10=170.

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Date:

February 10,2025




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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312973 |
|---|---|---|---|---|---|
| 4460922 | V04 | GABLE | 2 | 1 | Job Reference (optional) |

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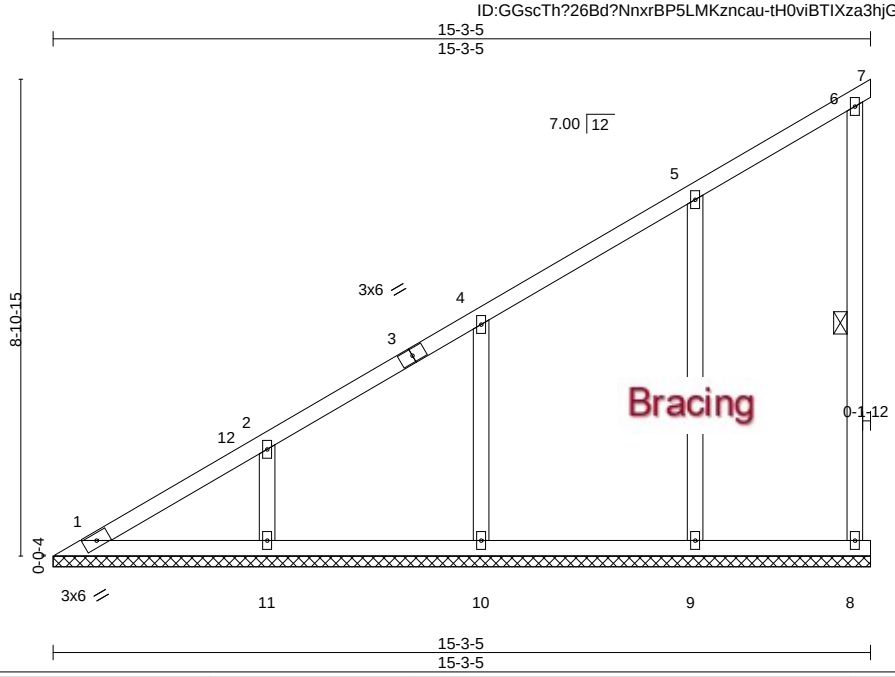


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | -0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 79 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** All bearings 15-3-5.
(lb) - Max Horz 1=428(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 7, 8, 1 except 11=-217(LC 12), 10=-211(LC 12), 9=-196(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 1 except 11=398(LC 19), 10=421(LC 19), 9=429(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-453/303, 2-4=-320/214
WEBS 2-11=-253/247, 4-10=-251/237

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 15-3-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8, 1 except (jt=lb) 11=217, 10=211, 9=196.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312974 |
|---|---|---|---|---|---|
| 4460922 | V05 | GABLE | 2 | 1 | Job Reference (optional) |

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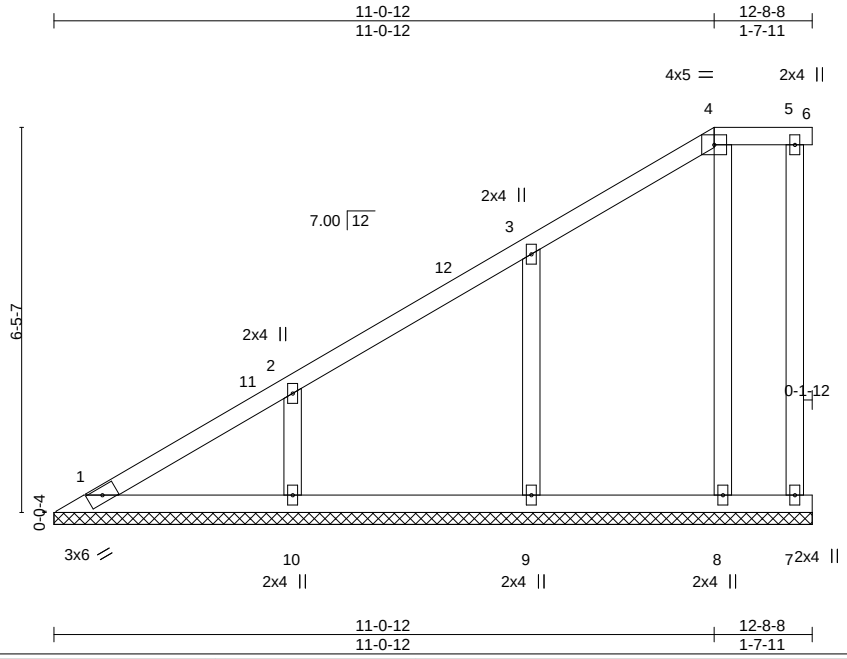


Scale = 1:38.6

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.16 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | -0.00 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 66 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8. |

**REACTIONS.** All bearings 12-8-8.
(lb) - Max Horz 1=307(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8 except 10=-221(LC 12), 9=-197(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 6, 7, 8 except 10=407(LC 19), 9=388(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-314/158
WEBS 2-10=-258/242

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 11-0-12, Zone3 11-0-12 to 12-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8 except (jt=lb) 10=221, 9=197.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312975 |
|---|---|---|---|---|---|
| 4460922 | V06 | Valley | 2 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:48 2025 Page 1
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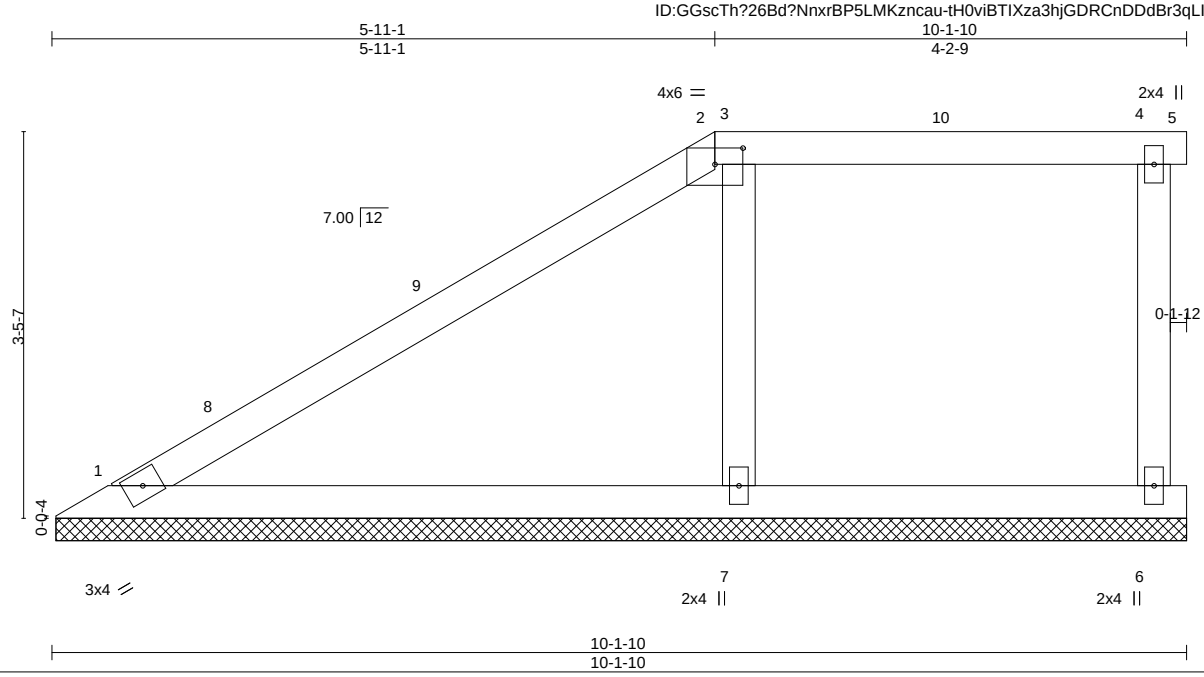


Plate Offsets (X,Y)-- [2:0-3-0,0-1-12]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.37 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.25 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | -0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-S | | | | | | | Weight: 39 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 10-1-3.
(lb) - Max Horz 1=157(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 5=-123(LC 26), 6=-246(LC 8), 7=-251(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=263(LC 26), 7=419(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-241/251
WEBS 3-7=-288/338

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-6-8 to 3-6-8, Zone1 3-6-8 to 5-11-1, Zone3 5-11-1 to 10-1-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 5=123, 6=246, 7=251.

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Date:

February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312976 |
|---|---|---|---|---|---|
| 4460922 | V07 | GABLE | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:49 2025 Page 1
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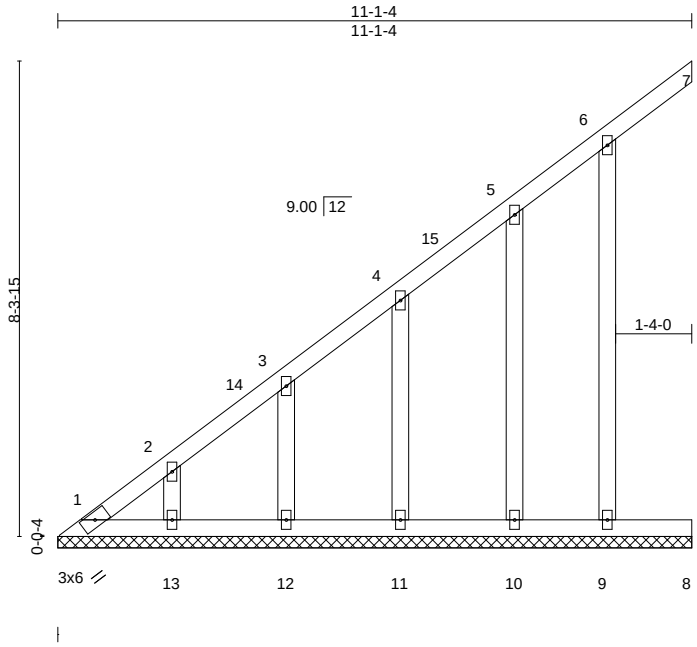


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.09 | Horz(CT) | -0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 65 lb | FT = 20% |

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

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

**REACTIONS.** All bearings 11-1-4.
(lb) - Max Horz 1=340(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 10, 9 except 13=-125(LC 12), 12=-130(LC 12), 11=-104(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 13, 12, 11, 10, 9

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-494/246, 2-3=-410/201, 3-4=-320/153

**NOTES-**
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 11-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) All plates are 2x4 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 9 except (jt=lb) 13=125, 12=130, 11=104.

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February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312977 |
|---|---|---|---|---|---|
| 4460922 | V08 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:49 2025 Page 1
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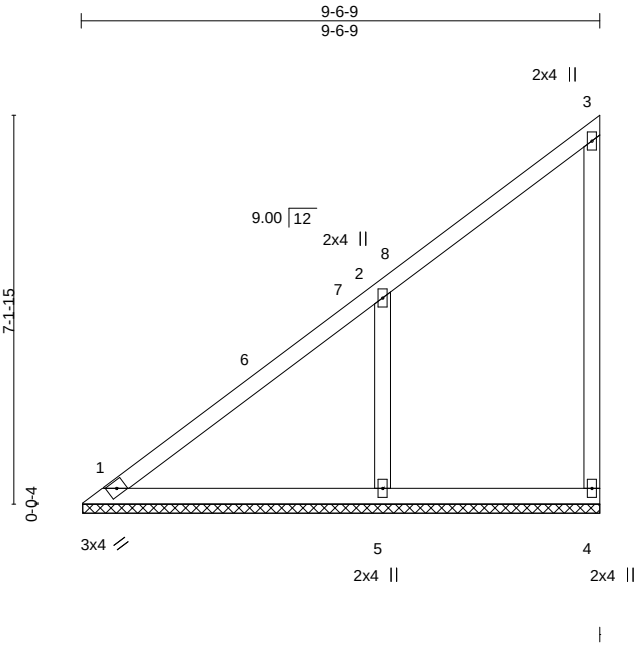


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.23 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 46 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.** (size) 1=9-6-4, 4=9-6-4, 5=9-6-4
Max Horz 1=296(LC 12)
Max Uplift 4=-51(LC 14), 5=-317(LC 12)
Max Grav 1=186(LC 21), 4=154(LC 19), 5=596(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-382/197
WEBS 2-5=-357/436

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 9-4-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=317.

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Date:

February 10,2025




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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312978 |
|---|---|---|---|---|---|
| 4460922 | V09 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:50 2025 Page 1
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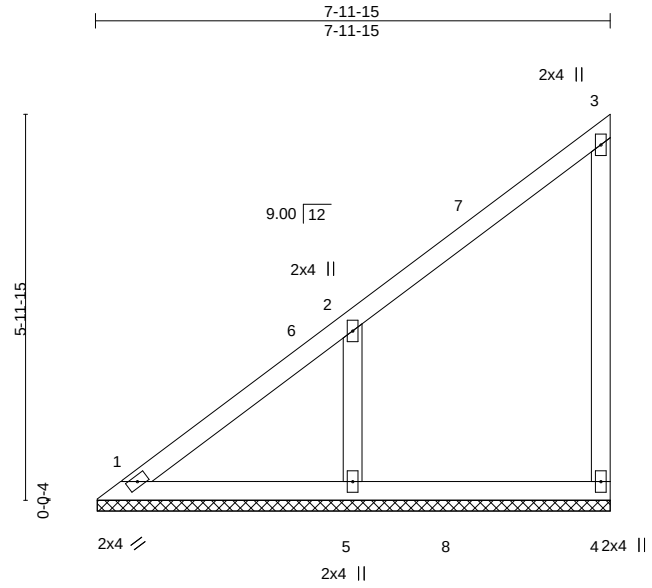


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.15 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.12 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-S | | | | | | | Weight: 38 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=7-11-9, 4=7-11-9, 5=7-11-9
Max Horz 1=256(LC 12)
Max Uplift 4=-67(LC 12), 5=-272(LC 12)
Max Grav 1=147(LC 21), 4=177(LC 19), 5=464(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-373/181
WEBS 2-5=-288/409

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 7-10-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=272.

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February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312979 |
|---|---|---|---|---|---|
| 4460922 | V10 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:50 2025 Page 1
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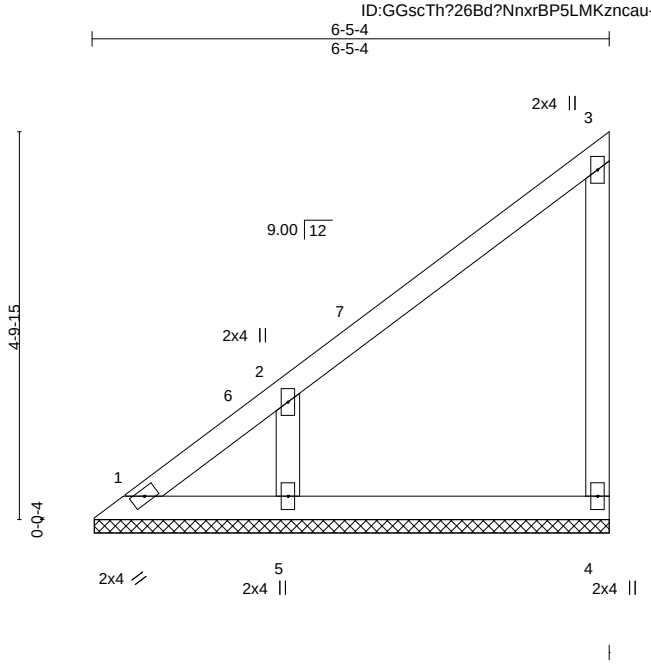


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.12 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 29 lb | FT = 20% |

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

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

**REACTIONS.** (size) 1=6-4-15, 4=6-4-15, 5=6-4-15
Max Horz 1=219(LC 12)
Max Uplift 1=-40(LC 10), 4=-100(LC 12), 5=-252(LC 12)
Max Grav 1=144(LC 12), 4=133(LC 19), 5=338(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-390/185
WEBS 2-5=-260/441

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 6-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=252.

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February 10,2025



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| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312980 |
|---|---|---|---|---|---|
| 4460922 | V11 | Valley | 1 | 1 | Job Reference (optional) |

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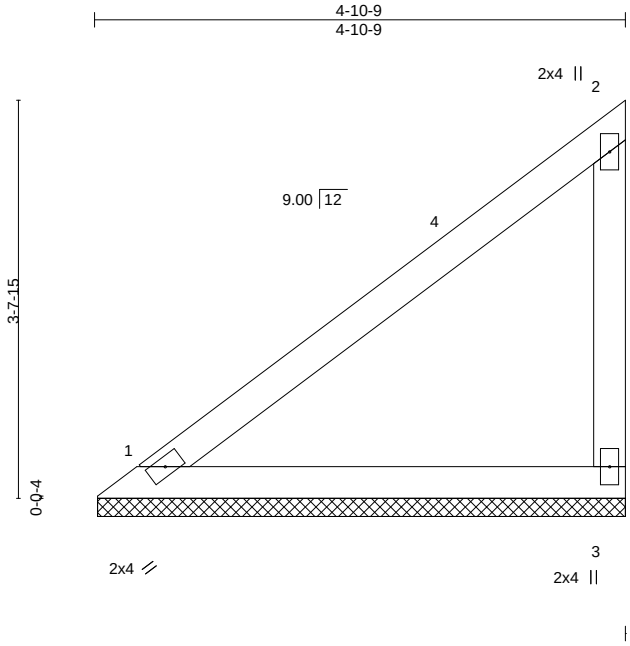



Scale = 1:21.2

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.22 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-P | | | | | | | Weight: 20 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 4-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=4-10-4, 3=4-10-4
Max Horz 1=161(LC 12)
Max Uplift 1=-16(LC 12), 3=-136(LC 12)
Max Grav 1=159(LC 1), 3=183(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-148/259

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 4-8-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 3=136.

This item has been digitally signed and sealed by ORegan, Philip, 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.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

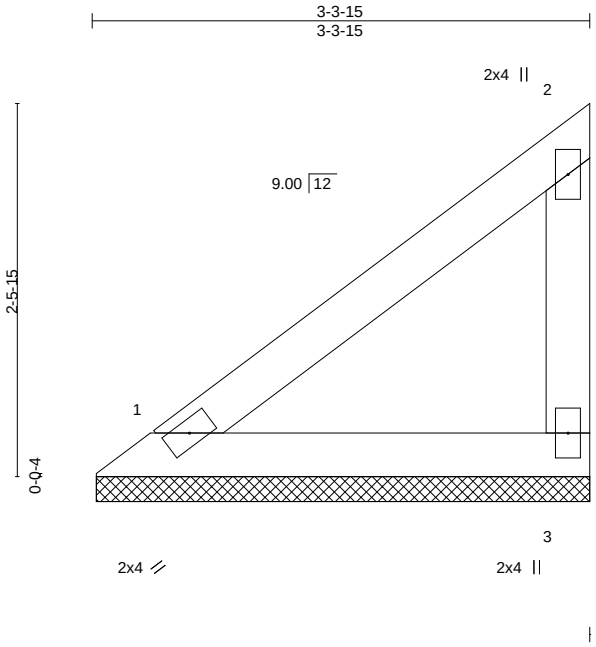
February 10,2025



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

| Job | Truss | Truss Type | Qty | Ply | RAYMONT RES. T36312981 |
|---|---|---|---|---|---|
| 4460922 | V12 | Valley | 1 | 1 | Job Reference (optional) |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Fri Feb 7 08:20:51 2025 Page 1
ID:GGscTh?26Bd?NnxrBP5LMKzncau-Ish1KDWAquzdYB?o6KLwrFpOO1OavjgAsQofMoznauw




Scale = 1:15.4

| 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 | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 7.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-P | | | | | | | Weight: 13 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=3-3-9, 3=3-3-9
Max Horz 1=102(LC 12)
Max Uplift 1=-10(LC 12), 3=-87(LC 12)
Max Grav 1=102(LC 1), 3=117(LC 19)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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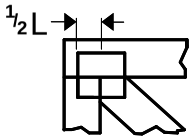
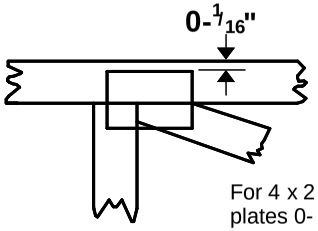
# Symbols

## 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.

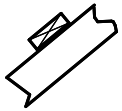
* Plate location details available in MiTek software or upon request.

## PLATE SIZE

4 x 4

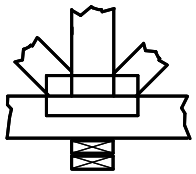
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

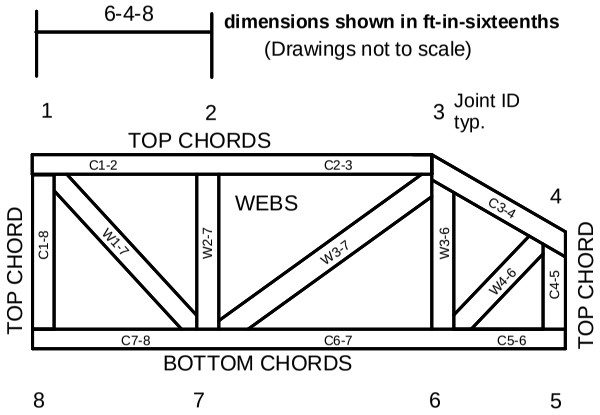


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**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.