MiTek

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

RE: 4520083 - MIKE TODD - SCOTT CARPORT

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

**Site Information:**
Customer Info: MIKE TODD CONST. Project Name: Scott Model: Carport
Lot/Block: N/A Subdivision: N/A
Address: 7392 NW US Hwy 41, N/A
City: Lake City State: FL

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

**General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):**
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 9 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 |
|---|---|---|---|
| 1 | T37759383 | CJ01 | 6/30/25 |
| 2 | T37759384 | CJ03 | 6/30/25 |
| 3 | T37759385 | CJ05 | 6/30/25 |
| 4 | T37759386 | EJ01 | 6/30/25 |
| 5 | T37759387 | HJ10 | 6/30/25 |
| 6 | T37759388 | T01 | 6/30/25 |
| 7 | T37759389 | T02 | 6/30/25 |
| 8 | T37759390 | T03 | 6/30/25 |
| 9 | T37759391 | T04 | 6/30/25 |


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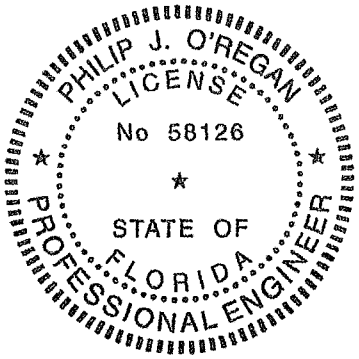
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

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

**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.




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

June 30,2025

| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759383 |
|---|---|---|---|---|---|---|
| 4520083 | CJ01 | Jack-Open | 8 | 1 | Job Reference (optional) | |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11:07:25 2025 Page 1
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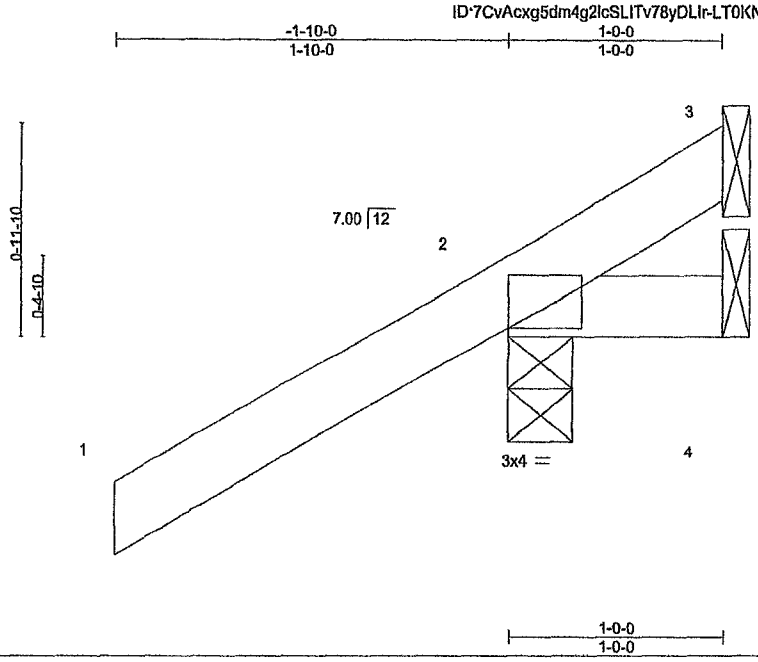


Plate Offsets (X,Y)-- [2.Edge,0-1-8]

| 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 | 0.28 | Vert(LL) | 0 00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1 25 | BC | 0.07 | 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: 7 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=58(LC 12)
Max Uplift 3=-21(LC 1), 2=-108(LC 12), 4=-44(LC 19)
Max Grav 3=13(LC 16), 2=252(LC 1), 4=28(LC 12)

**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 B, Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 3, 108 lb uplift at joint 2 and 44 lb uplift at joint 4

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
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Date:

June 30,2025




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

| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759384 |
|---|---|---|---|---|---|---|
| 4520083 | CJ03 | Jack-Open | 8 | 1 | Job Reference (optional) | |

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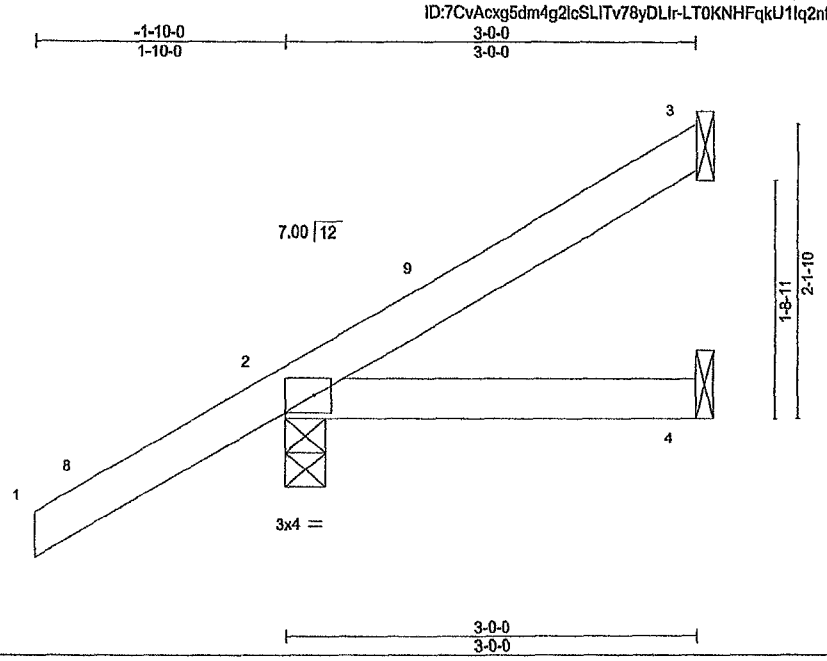


Plate Offsets (X,Y)-- [2:Edge,0-1-8]

| 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 | 0.28 | Vert(LL) | -0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | -0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 13 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=102(LC 12)
Max Uplift 3=-42(LC 12), 2=-80(LC 12), 4=-18(LC 9)
Max Grav 3=63(LC 19), 2=262(LC 1), 4=49(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 B, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 3, 80 lb uplift at joint 2 and 18 lb uplift at joint 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:

June 30,2025




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| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759385 |
|---|---|---|---|---|---|---|
| 4520083 | CJ05 | Jack-Open | 8 | 1 | Job Reference (optional) | |

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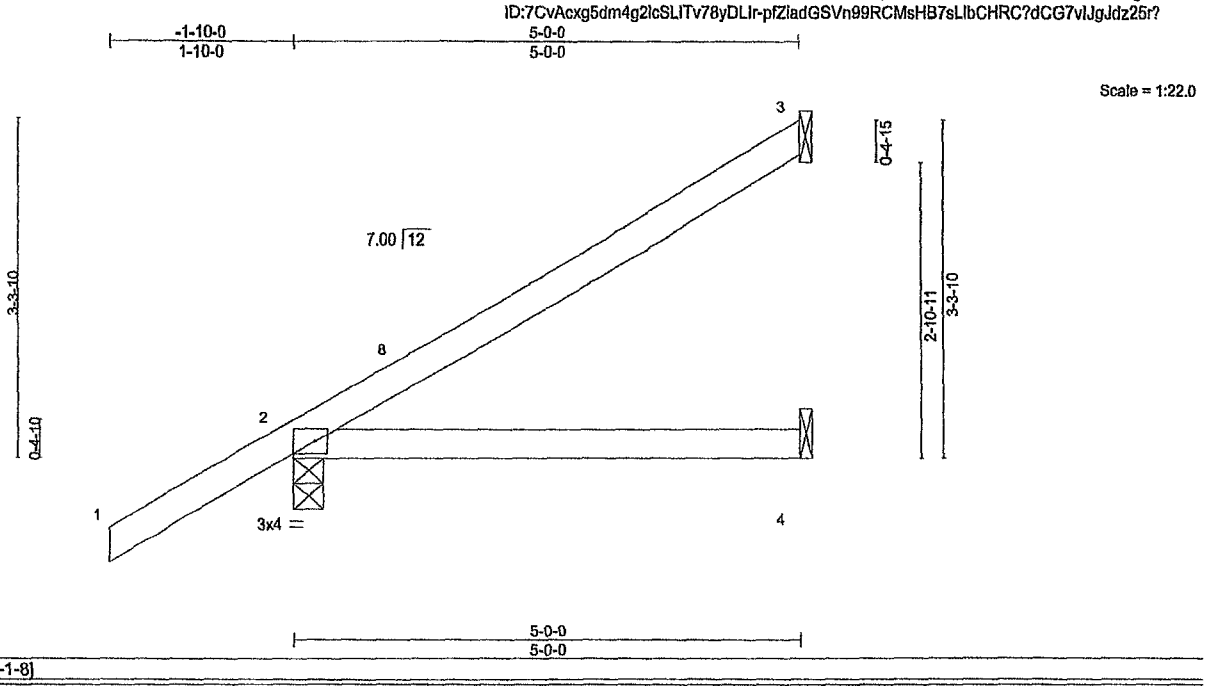


Plate Offsets (X,Y)-- [2.Edge,0-1-8]

| 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 | 0.30 | Vert(LL) | 0.05 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.24 | Vert(CT) | -0.06 | 4-7 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MP | | | | | | | Weight: 19 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=147(LC 12)
Max Uplift 3=-83(LC 12), 2=-83(LC 12), 4=-33(LC 9)
Max Grav 3=125(LC 19), 2=328(LC 1), 4=89(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 B; Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 3, 83 lb uplift at joint 2 and 33 lb uplift at joint 4.

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Philip J. O'Regan PE No.58116
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 30,2025




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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759386 |
|---|---|---|---|---|---|---|
| 4520083 | EJ01 | Jack-Partial | 12 | 1 | Job Reference (optional) | |

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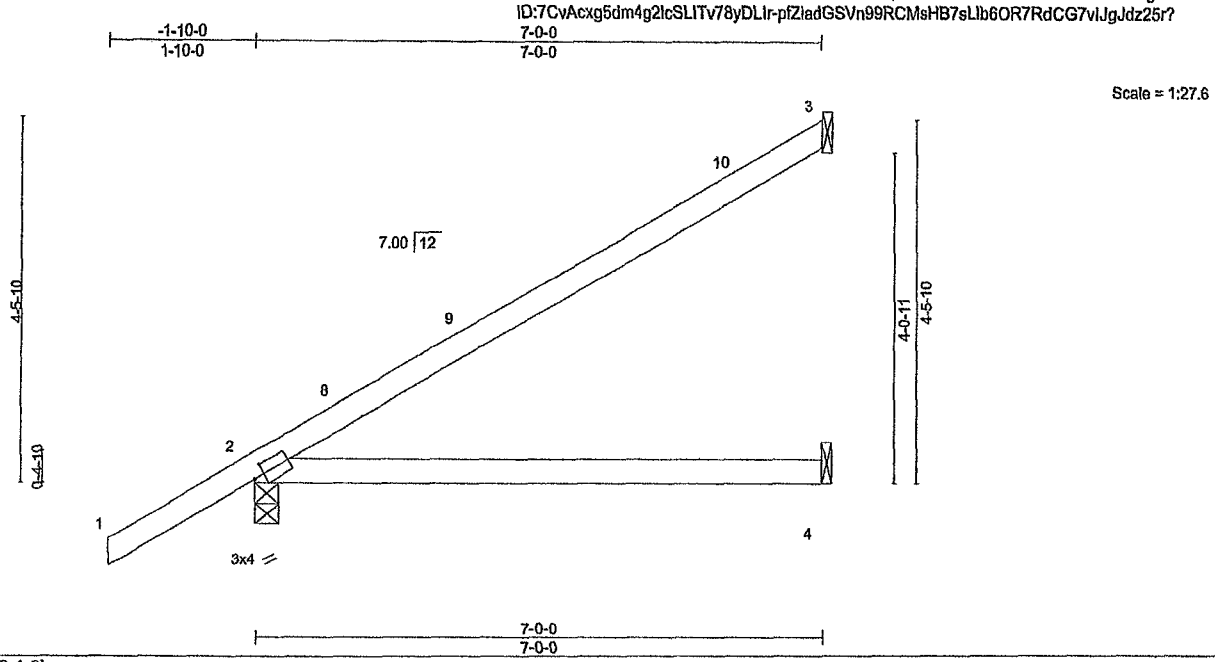


Plate Offsets (X,Y)-- [2.0-1-8,0-1-8]

| 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 | 0.68 | Vert(LL) | 0.19 | 4-7 | >447 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.54 | Vert(CT) | -0.23 | 4-7 | >365 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | -0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 26 lb | FT = 20% |

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

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

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=185(LC 12)
Max Uplift 3=-108(LC 12), 2=-93(LC 12), 4=-47(LC 9)
Max Grav 3=184(LC 19), 2=402(LC 1), 4=128(LC 3)

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

**NOTES-**
1) Wind. ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B; Encl., GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 6-11-4 zone, porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 3, 93 lb uplift at joint 2 and 47 lb uplift at joint 4

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:

June 30,2025



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

| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT |
|---|---|---|---|---|---|
| 4520083 | HJ10 | Diagonal Hip Girder | 4 | 1 | T37759387 |
| | | | | | Job Reference (optional) |

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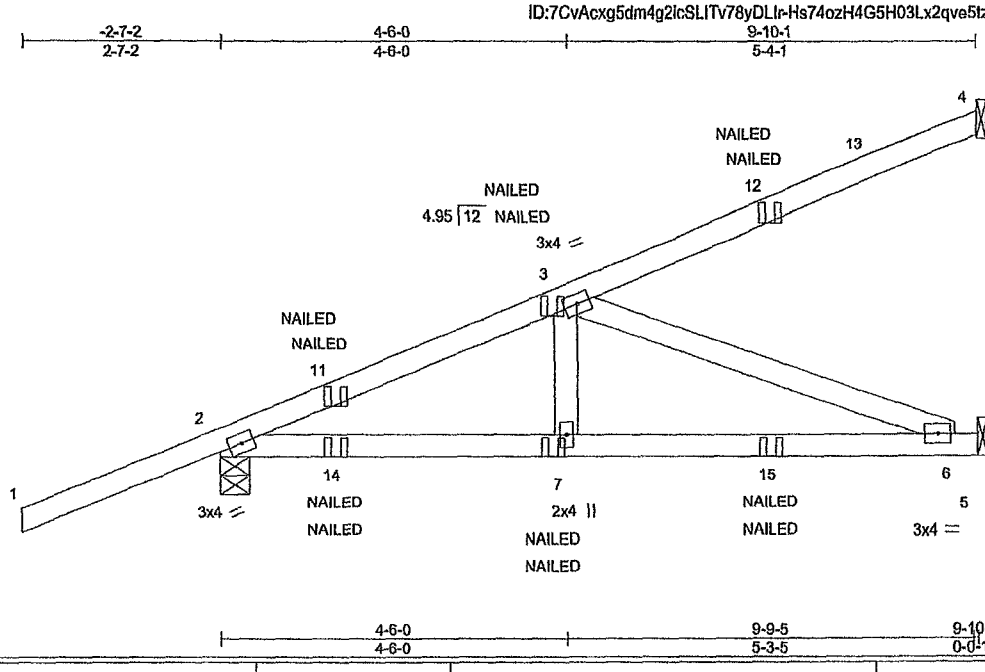


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.65 | Vert(LL) | 0.08 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.62 | Vert(CT) | -0.12 | 6-7 | >944 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.38 | Horz(CT) | 0.01 | 5 | 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.
BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=185(LC 8)
Max Uplift 4=-98(LC 8), 2=-327(LC 4), 5=-199(LC 5)
Max Grav 4=166(LC 1), 2=487(LC 38), 5=287(LC 37)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-757/386
BOT CHORD 2-7=-445/608, 6-7=-445/608
WEBS 3-6=-651/476

**NOTES-**
1) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 4, 327 lb uplift at joint 2 and 199 lb uplift at joint 5.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=2(F=1, B=1) 11=68(F=34, B=34) 12=-73(F=-37, B=-37) 14=74(F=37, B=37) 15=-55(F=-27, B=-27)

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.59176
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 30,2025




MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759388 |
|---|---|---|---|---|---|---|
| 4520083 | T01 | Hip Girder | 2 | 1 | Job Reference (optional) | |

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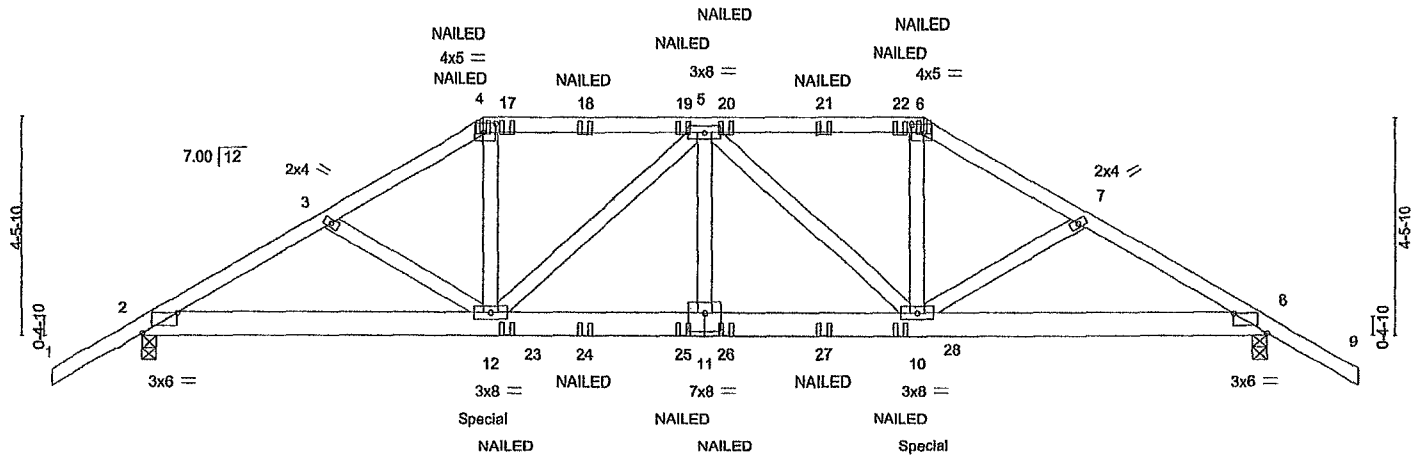
| -1-10-0 | 3-10-4 | 7-0-0 | 11-6-0 | 16-0-0 | 19-1-12 | 23-0-0 | 24-10-0 |
|---|---|---|---|---|---|---|---|
| 1-10-0 | 3-10-4 | 3-1-12 | 4-6-0 | 4-6-0 | 3-1-12 | 3-10-4 | 1-10-0 |

Scale = 1:45.6




| 7-0-0 | 11-6-0 | 16-0-0 | 23-0-0 |
|---|---|---|---|
| 7-0-0 | 4-6-0 | 4-6-0 | 7-0-0 |

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

| 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 | 0.65 | Vert(LL) | 0.15 | 11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.62 | Vert(CT) | -0.21 | 11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.49 | Horz(CT) | 0.07 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 142 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-6-5 oc bracing

**REACTIONS.** (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-128(LC 6)
Max Uplift 2=-954(LC 6), 8=-954(LC 9)
Max Grav 2=1907(LC 1), 8=1907(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3225/1731, 3-4=-3044/1719, 4-5=-2634/1524, 5-6=-2634/1524, 6-7=-3044/1719, 7-8=-3225/1730
BOT CHORD 2-12=-1551/2744, 11-12=-1792/3143, 10-11=-1792/3143, 8-10=-1443/2744
WEBS 4-12=-605/1054, 5-12=-743/452, 5-11=-164/388, 5-10=-743/452, 6-10=-606/1054

**NOTES-**
1) Unbalanced roof live loads have been considered for this design
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B, Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 954 lb uplift at joint 2 and 954 lb uplift at joint 8.
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 261 lb down and 229 lb up at 7-0-0, and 261 lb down and 229 lb up at 16-0-0 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: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

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Date:

June 30,2025

Continued on page 2



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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 4=-82(F) 6=-82(F) 12=-246(F) 10=-246(F) 17=-118(F) 18=-118(F) 19=-118(F) 20=-118(F) 21=-118(F) 22=-118(F) 23=-65(F) 24=-65(F) 25=-65(F) 26=-65(F) 27=-65(F) 28=-65(F)

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Date:

June 30,2025




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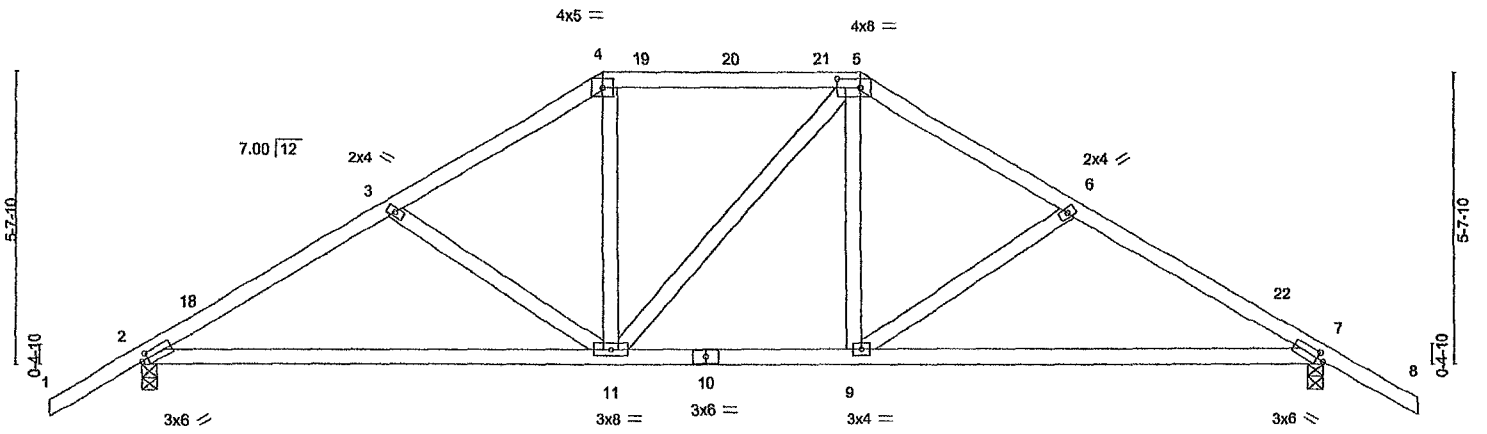
| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759389 |
|---|---|---|---|---|---|---|
| 4520083 | T02 | Hip | 2 | 1 | Job Reference (optional) | |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11:07:28 2025 Page 1
ID:7CvAcxg5dm4g2lcSLITv78yDLlr-l2hS?JHl1PPthVWEOc9KQAgWDFlB54QQNbomNVz26qz

| -1-10-0 | 4-11-4 | 9-0-0 | 14-0-0 | 18-0-12 | 23-0-0 | 24-10-0 |
|---|---|---|---|---|---|---|
| 1-10-0 | 4-11-4 | 4-0-12 | 5-0-0 | 4-0-12 | 4-11-4 | 1-10-0 |

Scale = 1:43.4




| 9-0-0 | 14-0-0 | 23-0-0 |
|---|---|---|
| 9-0-0 | 5-0-0 | 9-0-0 |

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [5:0-5-8,0-2-0], [7:0-1-8,0-1-8]

| 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 | 0.40 | Vert(LL) | 0.17 | 11-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.71 | Vert(CT) | -0.33 | 9-17 | >831 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 119 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 4-9-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-157(LC 10)
Max Uplift 2=-296(LC 9), 7=-296(LC 8)
Max Grav 2=1030(LC 1), 7=1030(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1414/609, 3-4=-1169/556, 4-5=-955/510, 5-6=-1168/555, 6-7=-1414/609
BOT CHORD 2-11=-445/1186, 9-11=-337/955, 7-9=-466/1186
WEBS 3-11=-294/185, 4-11=-186/355, 5-9=-194/355, 6-9=-294/185

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 14-0-0, Zone2 14-0-0 to 18-2-6, Zone1 18-2-6 to 24-10-0 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) 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 296 lb uplift at joint 2 and 296 lb uplift at joint 7.

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Date:

June 30,2025




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| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759390 |
|---|---|---|---|---|---|---|
| 4520083 | T03 | Hip | 2 | 1 | Job Reference (optional) | |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11:07:29 2025 Page 1
ID:7CvAcxg5dm4g2lcSLITv78yDLIr-EEFrCfIKoiXkIf5RyKgZzODi4fA6qUaZcFXKvxz25qy

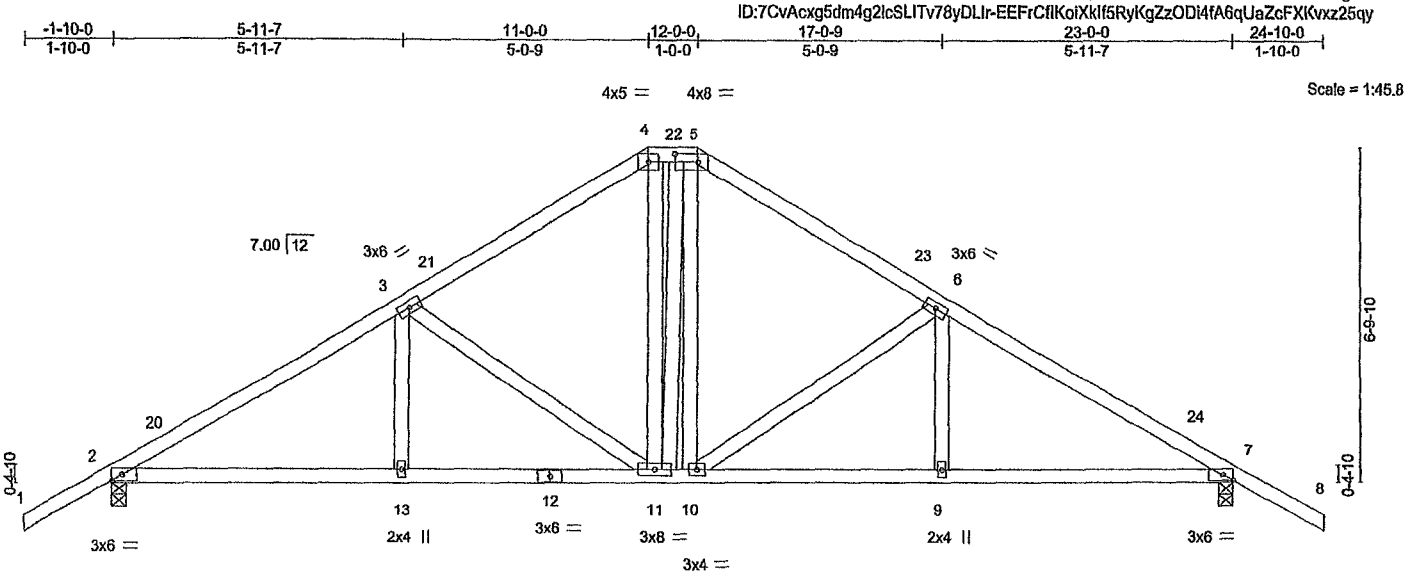


Plate Offsets (X,Y)-- [5:0-5-8,0-2-0], [7:0-2-8,Edge]

| 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 | 0.33 | Vert(LL) | 0.05 | 13-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.41 | Vert(CT) | -0.10 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.04 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 136 lb | FT = 20% |

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

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-14 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-186(LC 10)
Max Uplift 2=-262(LC 12), 7=-262(LC 13)
Max Grav 2=1030(LC 1), 7=1030(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1441/612, 3-4=-1020/482, 4-5=-811/446, 5-6=-1016/478, 6-7=-1443/614
BOT CHORD 2-13=-431/1177, 11-13=-431/1177, 10-11=-240/806, 9-10=-454/1179, 7-9=-454/1179
WEBS 3-11=-458/259, 4-11=-190/312, 5-10=-164/282, 6-10=-464/263

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 11-0-0, Zone3 11-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-10-0 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) 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 262 lb uplift at joint 2 and 262 lb uplift at joint 7

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Date:

June 30,2025




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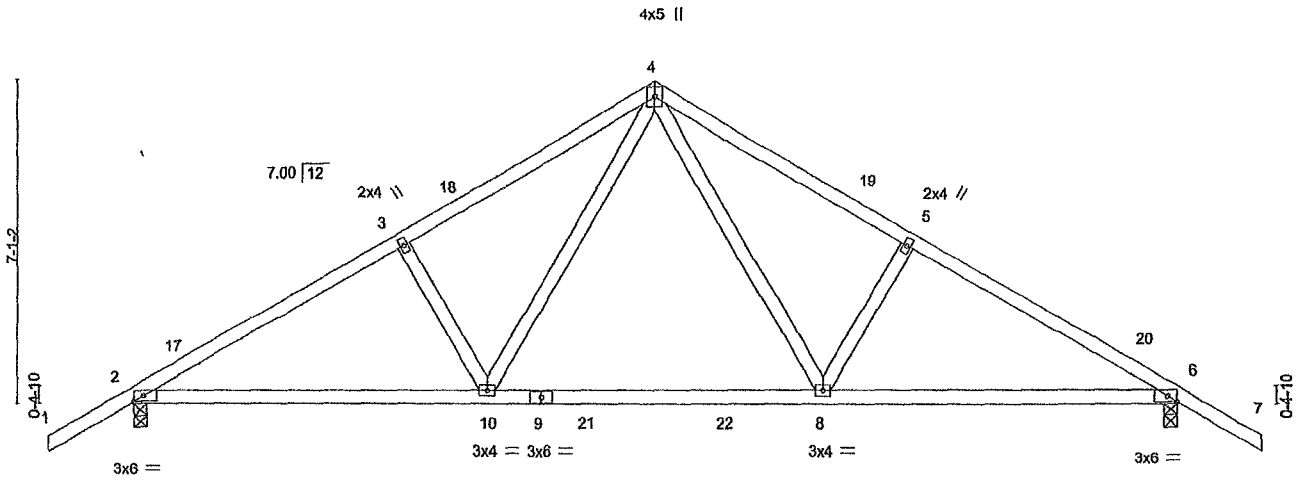
| Job | Truss | Truss Type | Qty | Ply | MIKE TODD - SCOTT CARPORT | T37759391 |
|---|---|---|---|---|---|---|
| 4520083 | T04 | Common | 1 | 1 | Job Reference (optional) | |

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Fri Jun 27 11:07:29 2025 Page 1
ID:7CvAcxg5dm4g2lcSLITv78yDLlr-EEFrCflKolXklf5RyKgZzODlFf6FqUUZcFXKvxz25qy

| -1-10-0 | 5-11-8 | 11-6-0 | 17-0-8 | 23-0-0 | 24-10-0 |
|---|---|---|---|---|---|
| 1-10-0 | 5-11-8 | 5-6-8 | 5-6-8 | 5-11-8 | 1-10-0 |

Scale = 1:49.1




| 7-9-11 | 15-2-5 | 23-0-0 |
|---|---|---|
| 7-9-11 | 7-4-10 | 7-9-11 |

Plate Offsets (X,Y)-- [6:0-2-8,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 | 0.38 | Vert(LL) | -0.11 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.66 | Vert(CT) | -0.18 | 8-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2023/TPI2014 | | Matrix-MS | | | | | | | Weight: 114 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 4-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-5 oc bracing.

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-192(LC 10)
Max Uplift 2=-261(LC 12), 6=-261(LC 13)
Max Grav 2=1092(LC 2), 6=1092(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1518/604, 3-4=-1402/633, 4-5=-1402/633, 5-6=-1518/604
BOT CHORD 2-10=-429/1276, 8-10=-219/847, 6-8=-448/1276
WEBS 4-8=-308/626, 5-8=-348/230, 4-10=-308/626, 3-10=-348/230

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B, Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-10-0 to 1-2-0, Zone1 1-2-0 to 11-6-0, Zone2 11-6-0 to 15-8-15, Zone1 15-8-15 to 24-10-0 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 2 and 261 lb uplift at joint 6

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Date:

June 30,2025




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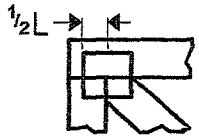
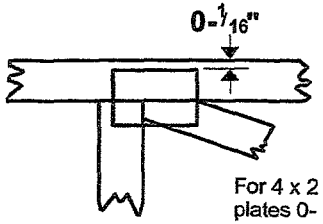
# Symbols

### 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.

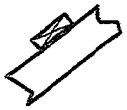
*Plate location details available in MiTek software or upon request.

### PLATE SIZE

4 x 4

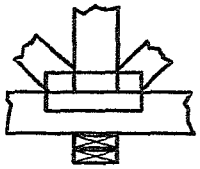
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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

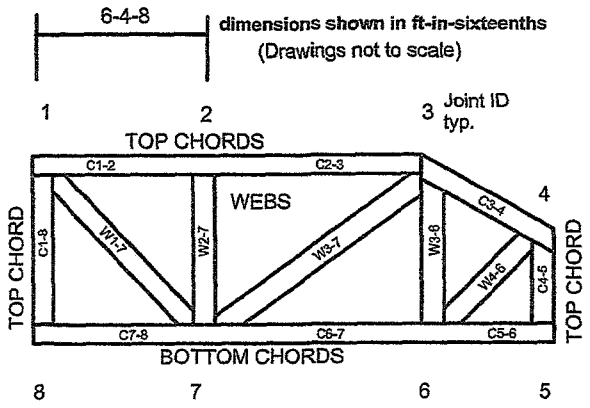


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

**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.



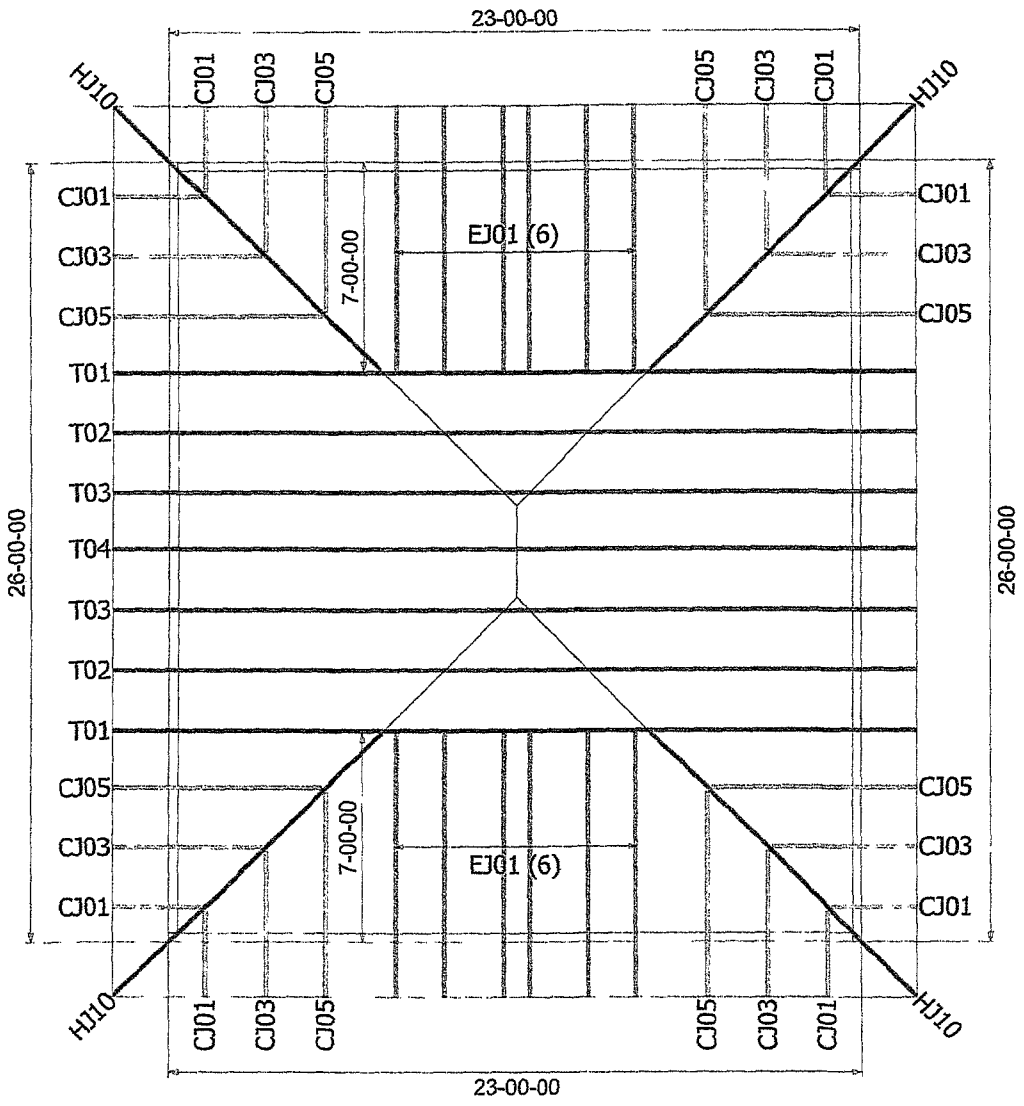
MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.




# 7/12 PITCH 22" OH

WARNING
Backcharges Will Not Be Accepted Regardless of Fault Without Prior Notification By Customer Within 48 Hours And Investigation By Builders FirstSource.
NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan.
SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ Date_____

FINAL LAYOUT FOR PRODUCTION
Initial:_____ Date:_____
Requested Delivery Date:

ROOF LOADING: TCLL: 20, TCDL: 10, BCLL: 0, BCDL: 10, DURATION: 1.25
FLOOR LOADING: TCLL: , TCDL: , BCLL: , BCDL: , DURATION: 1.00
1PSF TCDL = 6 PSF BCDC USED TO REDIST UNIFT
ENCLOSED
EXPOSURE CATEGORY: B
OCCUPANCY CATEGORY: II
WIND LOAD: 134 MPH
WIND IMPORTANCE FACTOR: 1.00

ROOF PITCH: 7H12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 22"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE

| | |
|---|---|
| BUILDER: | Mike Todd Const. |
| MODEL: | CUSTOM |
| ELEV: | HIP |
| ADDRESS: | |
| LOT / BLOCK: | N/A |
| SUBDIVISION: | SCOTT CARPORT |
| CITY: | |
| DRAWN BY: | |
| JOB # | 4520683 |
| DATE: 3/6/2025 | SCALE: N.T.S. |

REVISIONS:

Builders FirstSource