



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

RE: 0825-019 - Allred

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

Site Information:

Customer Info: BB Homes Project Name: . Model: .
 Lot/Block: . Subdivision: .
 Address: ., .
 City: Ft. White 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 34 individual, Truss Design Drawings and 0 Additional Drawings.
 With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

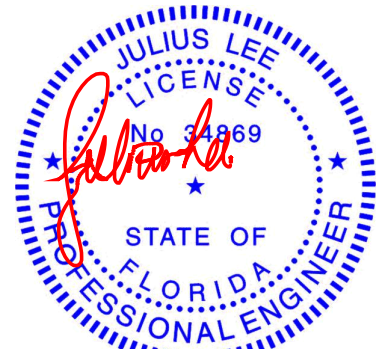
| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|---------|-----|-----------|------------|---------|
| 1 | T40878650 | A01 | 4/20/26 | 23 | T40878672 | E03 | 4/20/26 |
| 2 | T40878651 | A02 | 4/20/26 | 24 | T40878673 | F01 | 4/20/26 |
| 3 | T40878652 | A03 | 4/20/26 | 25 | T40878674 | F02 | 4/20/26 |
| 4 | T40878653 | A04 | 4/20/26 | 26 | T40878675 | G01 | 4/20/26 |
| 5 | T40878654 | A05 | 4/20/26 | 27 | T40878676 | J01 | 4/20/26 |
| 6 | T40878655 | A06 | 4/20/26 | 28 | T40878677 | J02 | 4/20/26 |
| 7 | T40878656 | B01 | 4/20/26 | 29 | T40878678 | J03 | 4/20/26 |
| 8 | T40878657 | B02 | 4/20/26 | 30 | T40878679 | M01 | 4/20/26 |
| 9 | T40878658 | B03 | 4/20/26 | 31 | T40878680 | M02 | 4/20/26 |
| 10 | T40878659 | C01 | 4/20/26 | 32 | T40878681 | PB01 | 4/20/26 |
| 11 | T40878660 | C02 | 4/20/26 | 33 | T40878682 | PB02 | 4/20/26 |
| 12 | T40878661 | C03 | 4/20/26 | 34 | T40878683 | PB03 | 4/20/26 |
| 13 | T40878662 | C04 | 4/20/26 | | | | |
| 14 | T40878663 | C05 | 4/20/26 | | | | |
| 15 | T40878664 | C06 | 4/20/26 | | | | |
| 16 | T40878665 | C07 | 4/20/26 | | | | |
| 17 | T40878666 | C08 | 4/20/26 | | | | |
| 18 | T40878667 | C09 | 4/20/26 | | | | |
| 19 | T40878668 | C10 | 4/20/26 | | | | |
| 20 | T40878669 | CJ01 | 4/20/26 | | | | |
| 21 | T40878670 | E01 | 4/20/26 | | | | |
| 22 | T40878671 | E02 | 4/20/26 | | | | |



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

Truss Design Engineer's Name: Lee, Julius
 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.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

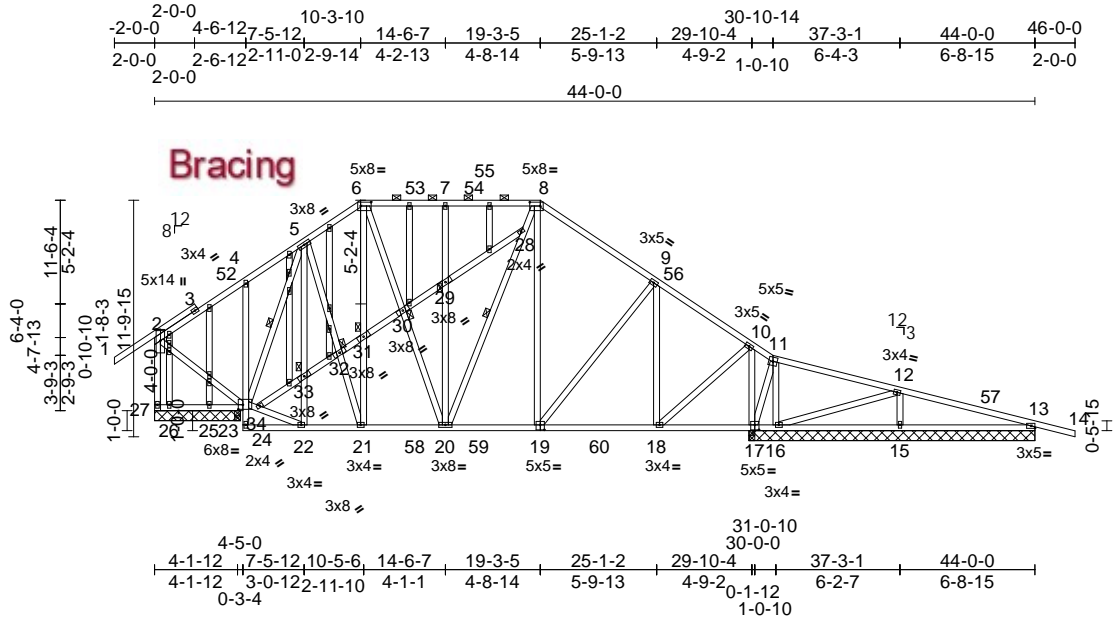
April 20,2026

| | | | | | | |
|-----------------|--------------|---|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss A01 | Truss Type Piggyback Base Structural Gable | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878650 |
|-----------------|--------------|---|----------|----------|------------------------------------|-----------|

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

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Apr 20 13:44:52
 ID:GqSqd52ucB11Kt8JDRGkFizos_E-ywB_Vt6xDDcfOnryhMuEP75T90mEchZAwBa9NYzOzYR

Page: 1



Scale = 1:115.1

Plate Offsets (X, Y): [6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [17:0-2-8,0-3-0], [19:0-2-8,0-3-0], [24:0-2-12,0-2-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.42 | Vert(LL) | -0.04 | 18-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.36 | Vert(CT) | -0.09 | 15-51 | >950 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.36 | Horz(CT) | 0.02 | 49 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 425 lb | FT = 20% |

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 8-20, 5-24
 JOINTS 1 Brace at Jt(s): 29, 30, 31, 32, 33

REACTIONS

All bearings 4-3-8, except 16=14-3-8, 15=14-3-8, 17=14-3-8, 13=14-3-8
 (lb) - Max Horiz 27=254 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 13, 17, 24, 26, 27
 Max Grav All reactions 250 (lb) or less at joint (s) 16, 25, 26 except 13=401 (LC 24), 15=510 (LC 18), 17=1406 (LC 18), 24=1330 (LC 17), 27=306 (LC 23)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-598/202, 6-53=-628/205, 7-53=-628/205, 7-54=-630/205, 54-55=-630/205, 8-55=-630/205, 8-9=-902/202, 9-56=-705/129, 10-56=-837/127, 2-27=-304/148
 BOT CHORD 21-22=0/421, 21-58=0/555, 20-58=0/555, 20-59=0/685, 19-59=0/685, 19-60=0/635, 18-60=0/635

WEBS
 21-31=-302/30, 6-31=-298/30, 9-18=-382/91, 12-15=-334/86, 20-29=-295/105, 7-29=-297/105, 6-30=-62/476, 20-30=-63/479, 10-17=-1175/71, 10-18=-32/890, 5-32=0/482, 21-32=0/482, 24-34=0/365, 22-34=0/408, 5-24=-911/82

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 10-3-10, Zone2 10-3-10 to 16-6-5, Zone1 16-6-5 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 27, 24, 17, 26, 13, 13.

- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

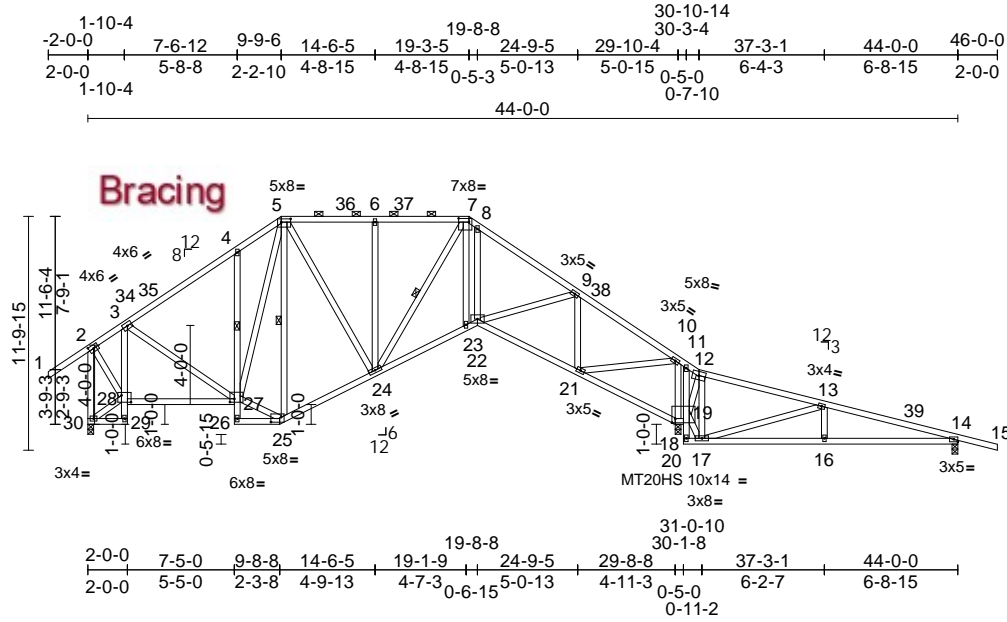
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss A02 | Truss Type Piggyback Base | Qty 6 | Ply 1 | Allred Job Reference (optional) | T40878651 |
|-----------------|--------------|------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:28
ID:XPTzV7QQ3clurxVw7vb9Gqynzb8-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCdoi7J4zJC7f

Page: 1



Scale = 1:116.5

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [5:0-5-12,0-2-0], [7:0-6-4,0-2-4], [20:0-2-0,0-2-8], [25:0-6-4,0-3-0], [27:0-2-12,0-2-0], [28:0-5-12,0-4-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.59 | Vert(LL) | 0.05 | 16-33 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.50 | Vert(CT) | -0.19 | 21-22 | >999 | 180 | MT20HS | 187/143 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.76 | Horz(CT) | 0.17 | 20 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | | Weight: 325 lb FT = 20% |

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-8-2 max.): 5-7.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 4-27
WEBS 1 Row at midpt 5-25, 7-24

REACTIONS
(size) 14=0-3-8, 20=0-3-8, 30=0-3-8
Max Horiz 30=-231 (LC 10)
Max Uplift 14=-173 (LC 12), 20=-113 (LC 12), 30=47 (LC 12)
Max Grav 14=502 (LC 27), 20=2049 (LC 1), 30=1216 (LC 1)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/71, 2-3=-622/135, 3-4=-1010/191, 4-5=-946/306, 5-6=-940/213, 6-7=-940/213, 7-8=-1075/188, 8-9=-1503/109, 9-10=-850/67, 10-11=-48/909, 11-12=-5/1135, 12-13=0/595, 13-14=-554/329, 14-15=0/29, 2-30=-1189/144
BOT CHORD 29-30=-32/19, 28-29=-12/31, 3-28=-598/104, 27-28=-25/624, 26-27=0/16, 4-27=-258/187, 25-26=-38/24, 24-25=0/774, 23-24=0/1337, 22-23=0/1139, 21-22=0/730, 20-21=-1085/187, 19-20=-1000/175, 18-19=-186/44, 11-19=-433/0, 17-18=-168/30, 16-17=-273/496, 14-16=-273/496

WEBS
3-27=-11/371, 25-27=0/713, 5-27=-137/483, 5-25=-549/0, 12-19=-1067/281, 10-20=-1046/139, 7-23=0/432, 8-22=0/440, 28-30=-225/219, 10-21=-10/1622, 9-21=-874/75, 9-22=0/529, 12-17=-218/1339, 17-19=-923/54, 13-17=-1045/306, 13-16=-64/272, 5-24=0/550, 6-24=-290/118, 7-24=-450/0, 2-28=-18/826

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 9-9-6, Zone2 9-9-6 to 16-0-1, Zone1 16-0-1 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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) All plates are 2x4 (||) MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 20, 173 lb uplift at joint 14 and 47 lb uplift at joint 30.

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

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

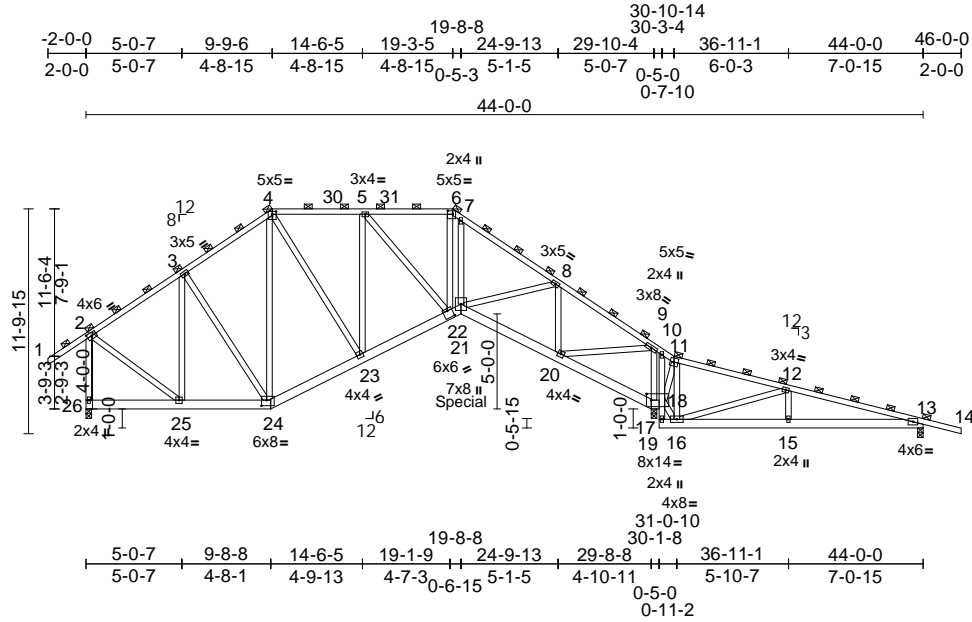
| | | | | | | |
|-----------------|--------------|-------------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss A03 | Truss Type Piggyback Base Girder | Qty 2 | Ply 2 | Allred Job Reference (optional) | T40878652 |
|-----------------|--------------|-------------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:28

Page: 1

ID:Gjih1JBV6ZWxFR06A1bT1?yinzR7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRcDoi7J4zJC7f



Scale = 1:121.1

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-2-8,0-1-13], [6:0-3-4,0-2-4], [19:0-3-0,0-4-0], [22:0-3-0,0-4-8], [24:0-3-4,0-3-8]

| Loading | (psf) | Spacing | 4-0-0 | CSI | DEFL | in (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|--------|-------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.68 | Vert(LL) | -0.09 | 20-21 | >999 | 240 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.59 | Vert(CT) | -0.18 | 20-21 | >999 | 180 |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.44 | Horz(CT) | 0.14 | 19 | n/a | n/a |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | |
| | | | | | | | | | | Weight: 672 lb FT = 20% |

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

BRACING
TOP CHORD 2-0-0 oc purlins (5-11-5 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size)
13=0-3-8, 19=0-3-8, 26=0-3-8
Max Horiz 26=466 (LC 6)
Max Uplift 13=404 (LC 25), 19=360 (LC 8), 26=134 (LC 8)
Max Grav 13=896 (LC 20), 19=4626 (LC 1), 26=2565 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/143, 2-3=-1790/200, 3-4=-1923/289, 4-5=-2139/229, 5-6=-2886/133, 6-7=-3097/205, 7-8=-3652/79, 8-9=-1871/33, 9-10=-127/2567, 10-11=-51/2885, 11-12=0/1702, 12-13=-659/735, 13-14=0/58, 2-26=-2474/190
BOT CHORD 25-26=-398/390, 24-25=0/1484, 23-24=0/1719, 22-23=0/2522, 21-22=0/2375, 20-21=0/1606, 19-20=-2789/284, 18-19=-2278/231, 17-18=-249/33, 10-18=-730/0, 16-17=-494/52, 15-16=-625/564, 13-15=-625/564
WEBS 3-25=-823/46, 3-24=-58/325, 4-24=-664/0, 4-23=0/1332, 5-23=-1485/7, 5-22=0/1179, 11-18=-2128/418, 2-25=0/1688, 6-22=-116/992, 7-21=-42/606, 9-19=-2825/219, 11-16=-344/2982, 16-18=-2352/156, 12-16=-2170/459, 12-15=-75/608, 9-20=0/3921, 8-20=-2069/120, 8-21=0/1484

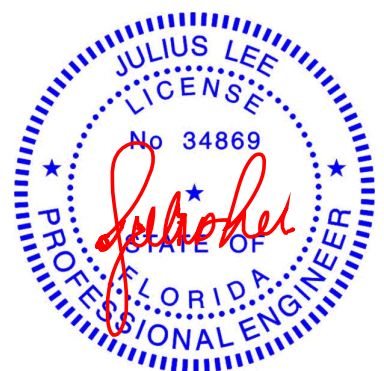
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 26, 360 lb uplift at joint 19 and 404 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 638 lb down and 150 lb up at 19-8-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-120, 2-4=-120, 4-6=-120, 6-11=-120, 11-14=-120, 24-26=-40, 21-24=-40, 19-21=-40, 18-19=-40, 17-27=-40
Concentrated Loads (lb)
Vert: 21=-552 (F)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

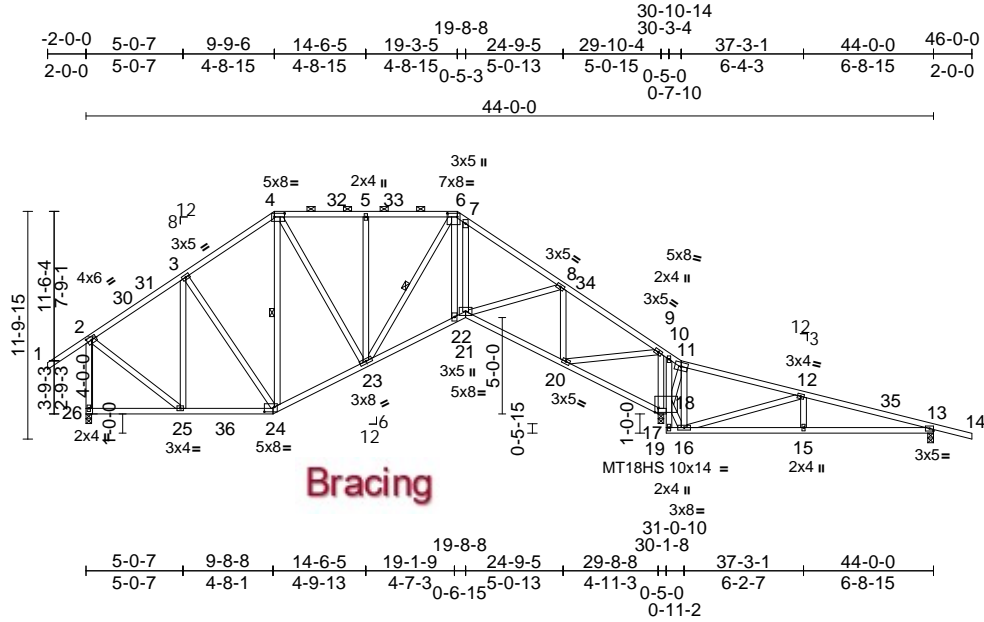
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss A04 | Truss Type Piggyback Base | Qty 6 | Ply 1 | Allred Job Reference (optional) | T40878653 |
|-----------------|--------------|------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:29
 ID:Wg7H9oEmDDtmXA1Ndw10yTynzqt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:119.6

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-6-4,0-2-4], [6:0-6-4,0-2-4], [19:0-2-0,0-2-8], [24:0-6-4,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|--------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.61 | Vert(LL) | -0.11 | 20-21 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.57 | Vert(CT) | -0.21 | 20-21 | >999 | 180 | MT18HS | 244/190 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.81 | Horz(CT) | 0.16 | 19 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | | Weight: 303 lb FT = 20% |

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

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-2 max.): 4-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-24, 6-23

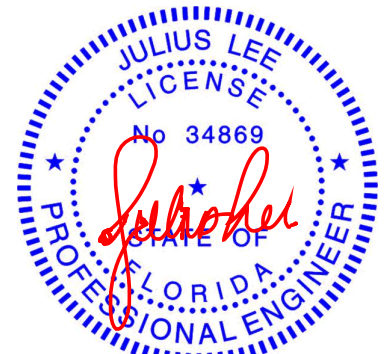
REACTIONS
 (size) 13=0-3-8, 19=0-3-8, 26=0-3-8
 Max Horiz 26=-231 (LC 10)
 Max Uplift 13=-173 (LC 12), 19=-113 (LC 12), 26=-47 (LC 12)
 Max Grav 13=503 (LC 29), 19=2182 (LC 2), 26=1341 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/71, 2-3=-947/168, 3-4=-979/232, 4-5=-1067/212, 5-6=-1067/212, 6-7=-1198/187, 7-8=-1680/110, 8-9=-970/68, 9-10=-50/939, 10-11=-8/1207, 11-12=0/612, 12-13=-586/330, 13-14=0/29, 2-26=-1268/273
 BOT CHORD 25-26=-200/197, 24-25=-5/818, 23-24=0/951, 22-23=0/1569, 21-22=0/1346, 20-21=0/866, 19-20=-1157/189, 18-19=-1078/177, 17-18=-193/44, 10-18=-553/0, 16-17=-180/30, 15-16=-272/536, 13-15=-272/536
 WEBS 3-24=-52/138, 4-24=-293/0, 11-18=-1120/280, 2-25=-1/885, 3-25=-375/66, 9-19=-1081/139, 11-16=-216/1490, 16-18=-960/57, 12-16=-1115/306, 12-15=-64/272, 6-22=0/512, 7-21=0/570, 9-20=-11/1729, 8-20=-872/74, 8-21=0/614, 6-23=-495/0, 4-23=0/583, 5-23=-281/110

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 9-9-6, Zone2 9-9-6 to 16-0-1, Zone1 16-0-1 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 47 lb uplift at joint 26, 113 lb uplift at joint 19 and 173 lb uplift at joint 13.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

MiTek®

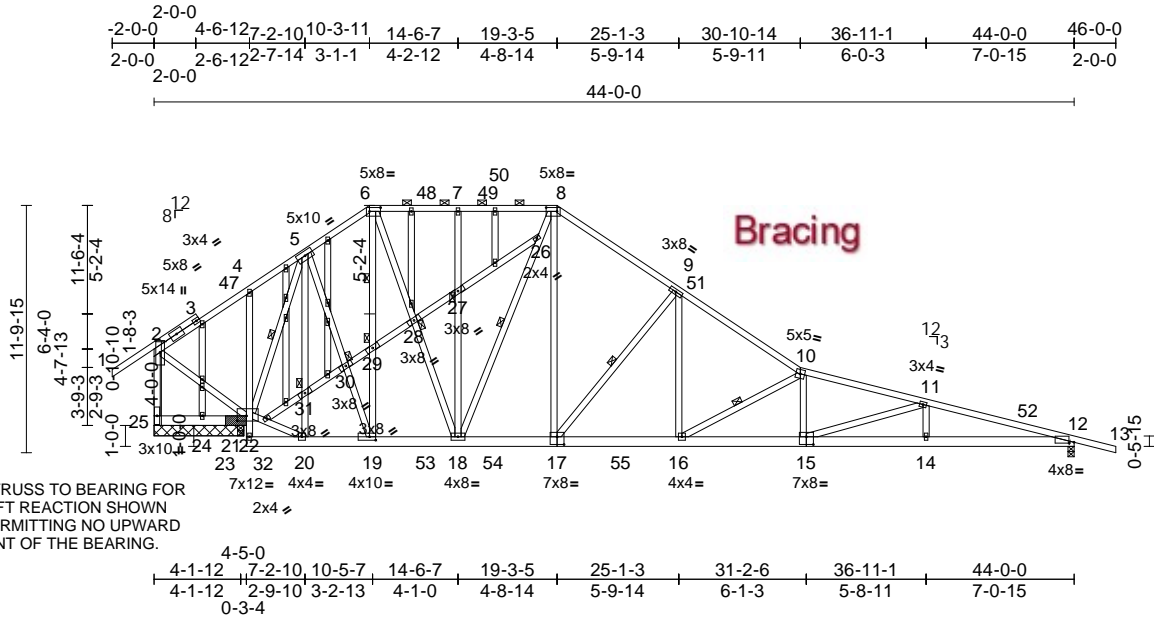
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|----------|-------|---------------------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Allred | T40878654 |
| 0825-019 | A05 | Piggyback Base Structural Gable | 1 | 1 | Job Reference (optional) | |

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

Run: 8.83 E Feb 18 2025 Print: 8.830 E Feb 18 2025 MiTek Industries, Inc. Mon Apr 20 13:47:25
 ID:XyDoIAOWfTNkP8e47FYsdyujD-vl2a1t_Ajq8gUcClGPAaBp0vZVZZQEf_ZodsK3zOzW0

Page: 1



Scale = 1:110.2

Plate Offsets (X, Y): [6:0-6-4,0-2-4], [8:0-6-4,0-2-4], [12:0-2-14,0-0-9], [15:0-4-0,0-4-8], [17:0-4-0,0-4-8], [19:0-3-8,0-2-0], [22:0-5-4,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.64 | Vert(LL) | -0.32 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.80 | Vert(CT) | -0.59 | 14-15 | >804 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.98 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | | Weight: 444 lb FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* 4-21:2x4 SP No.2
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 6-29, 8-18, 9-17, 10-16, 5-22

JOINTS 1 Brace at Jt(s): 27, 28, 29, 30, 31

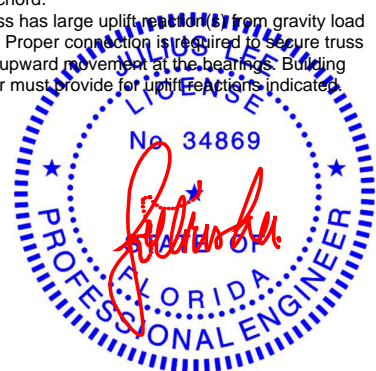
REACTIONS All bearings 4-3-8. except 12=0-3-8
 (lb) - Max Horiz 25=252 (LC 10)
 Max Uplift All uplift 100 (lb) or less at joint(s) 12, 22, 24 except 25=1988 (LC 26)
 Max Grav All reactions 250 (lb) or less at joint (s) 24, 25 except 12=1622 (LC 18), 22=4451 (LC 18)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=61/1824, 3-47=44/1875, 4-47=33/1886, 4-5=0/1896, 6-48=372/196, 7-48=372/196, 7-49=377/197, 49-50=377/197, 8-50=377/197, 8-9=1267/221, 9-51=2135/185, 10-51=2295/182, 10-11=3898/178, 11-52=4640/162, 12-52=4679/146, 2-25=96/2016
 BOT CHORD 19-20=358/162, 19-53=0/335, 18-53=0/335, 18-54=0/965, 17-54=0/965, 17-55=6/1831, 16-55=6/1831, 15-16=97/3701, 14-15=113/4500, 12-14=113/4500

WEBS 19-29=1350/75, 6-29=1334/74, 18-26=844/52, 8-26=1194/83, 8-17=71/1382, 9-17=1453/168, 10-15=0/488, 11-15=798/23, 18-27=292/104, 7-27=296/105, 6-28=92/1206, 18-28=93/1215, 9-16=0/1330, 10-16=2164/109, 5-30=40/1685, 19-30=41/1688, 22-32=500/151, 5-22=2956/168, 2-22=1927/200, 26-27=401/36, 27-28=412/37, 28-29=453/41, 29-30=424/40, 30-31=436/41, 31-32=448/43

NOTES
 1) 2x6 SP No.2 bearing block 12" long at jt. 22 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
 2) Unbalanced roof live loads have been considered for this design.
 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-4-13, Zone1 2-4-13 to 10-3-11, Zone2 10-3-11 to 16-6-6, Zone1 16-6-6 to 19-3-5, Zone2 19-3-5 to 25-6-0, Zone1 25-6-0 to 46-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 4) 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.
 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) All plates are 2x4 (||) MT20 unless otherwise indicated.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1988 lb uplift at joint 25, 52 lb uplift at joint 22, 46 lb uplift at joint 12 and 37 lb uplift at joint 24.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

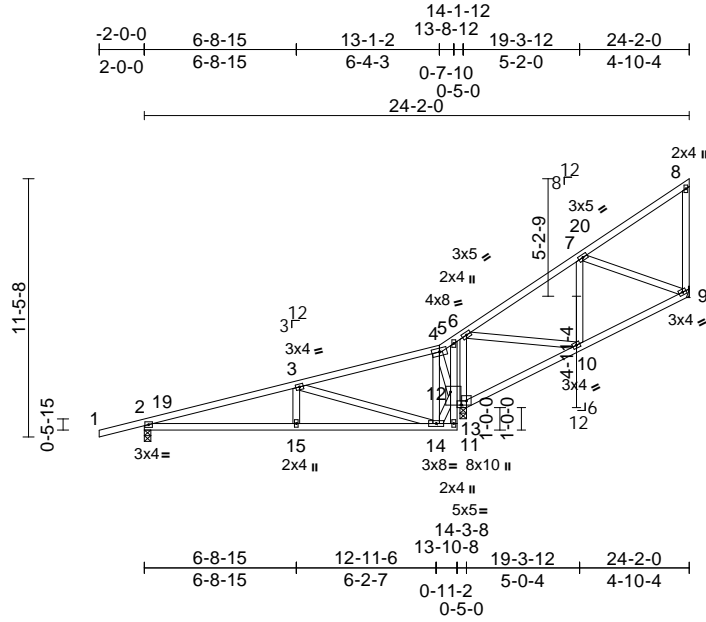
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|---------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss A06 | Truss Type Jack-Closed | Qty 3 | Ply 1 | Allred Job Reference (optional) | T40878655 |
|-----------------|--------------|---------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30
ID:py_5MlafGRWOSjqw1xLKblyo_AN-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:102.2

Plate Offsets (X, Y): [11:0-2-8,0-2-4], [12:0-7-0,0-5-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.35 | Vert(LL) | 0.05 | 15-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.40 | Vert(CT) | -0.10 | 15-18 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | -0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 139 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 9= Mechanical, 11=0-3-8
Max Horiz 2=272 (LC 9)
Max Uplift 2=-130 (LC 8), 9=-41 (LC 9), 11=-166 (LC 12)
Max Grav 2=611 (LC 1), 9=318 (LC 17), 11=1173 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

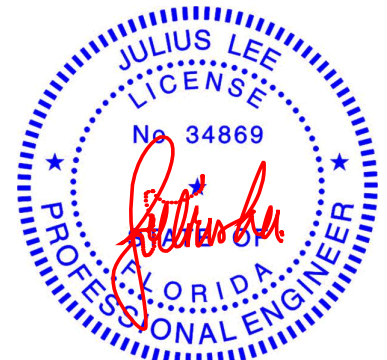
TOP CHORD 1-2=0/29, 2-3=-940/204, 3-4=-313/238, 4-5=-317/355, 5-6=-382/467, 6-7=-286/17, 7-8=-142/90, 8-9=-119/113
BOT CHORD 2-15=-395/869, 14-15=-395/869, 13-14=-48/31, 12-13=-153/46, 5-12=-124/181, 11-12=-475/97, 10-11=-442/121, 9-10=-133/233
WEBS 4-12=-751/234, 6-11=-613/194, 7-9=-178/51, 7-10=-209/133, 6-10=-92/507, 3-15=-71/262, 3-14=-1002/339, 4-14=-199/595, 12-14=-159/41

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 24-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 41 lb uplift at joint 9, 130 lb uplift at joint 2 and 166 lb uplift at joint 11.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

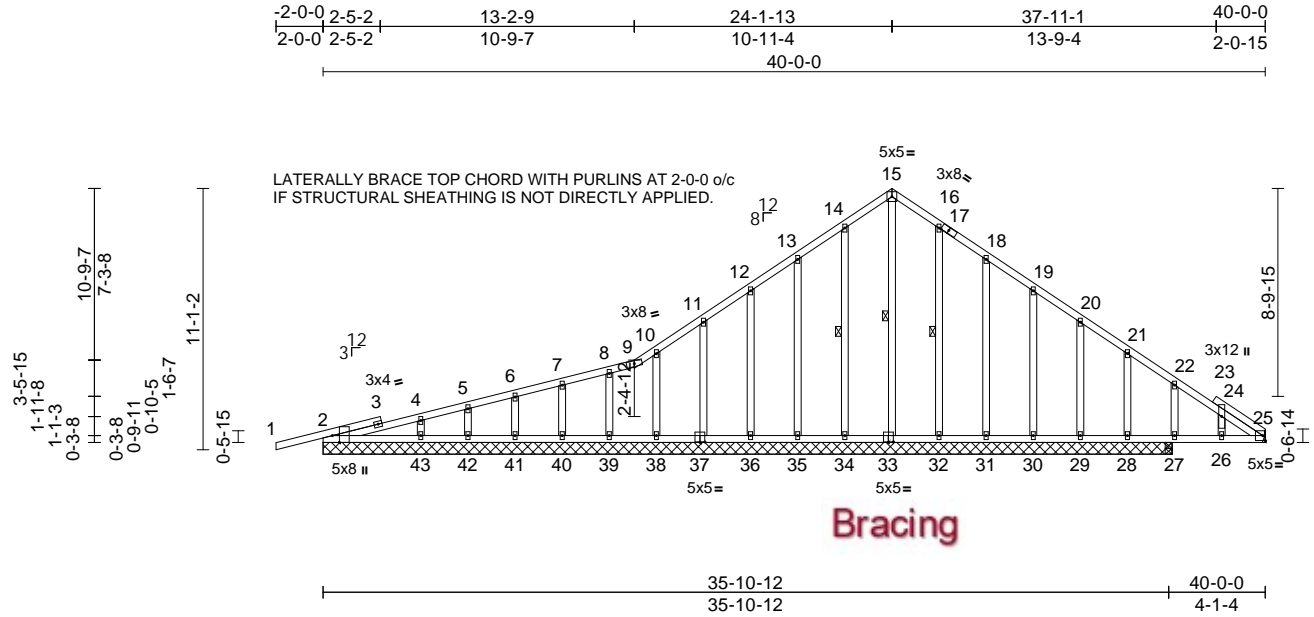
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|--|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss B01 | Truss Type Roof Special Supported Gable | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878656 |
|-----------------|--------------|--|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30
ID:0WoIMM?jhK69?ArhPGaZeynzMB-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:97.8

Plate Offsets (X, Y): [2:0-3-8,Edge], [17:0-3-13,0-1-8], [33:0-2-8,0-0-4], [37:0-2-8,0-0-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.24 | Vert(LL) | 0.01 | 26 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | -0.01 | 26 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.01 | 25 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 263 lb | FT = 20% |

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 15-33, 14-34, 16-32

REACTIONS (size)
2=36-0-8, 25= Mechanical,
27=36-0-8, 28=36-0-8, 29=36-0-8,
30=36-0-8, 31=36-0-8, 32=36-0-8,
33=36-0-8, 34=36-0-8, 35=36-0-8,
36=36-0-8, 37=36-0-8, 38=36-0-8,
39=36-0-8, 40=36-0-8, 41=36-0-8,
42=36-0-8, 43=36-0-8

Max Horiz 2=200 (LC 11)
Max Uplift 2=45 (LC 12), 27=37 (LC 12),
28=14 (LC 12), 29=23 (LC 12),
30=20 (LC 12), 31=26 (LC 12),
32=9 (LC 12), 34=12 (LC 12),
35=25 (LC 12), 36=19 (LC 12),
37=23 (LC 12), 38=15 (LC 12),
40=4 (LC 12), 42=13 (LC 12)

Max Grav 2=298 (LC 1), 25=141 (LC 17),
27=302 (LC 18), 28=115 (LC 18),
29=177 (LC 18), 30=162 (LC 18),
31=166 (LC 18), 32=169 (LC 18),
33=170 (LC 12), 34=168 (LC 17),
35=164 (LC 17), 36=167 (LC 17),
37=171 (LC 17), 38=161 (LC 1),
39=165 (LC 1), 40=156 (LC 23),
41=171 (LC 1), 42=118 (LC 23),
43=270 (LC 1)

TOP CHORD
1-2=0/29, 2-4=-186/117, 4-5=-146/108,
5-6=-121/110, 6-7=-120/108, 7-8=-116/106,
8-9=-119/105, 9-10=-113/115,
10-11=-128/113, 11-12=-113/122,
12-13=-104/202, 13-14=-106/287,
14-15=-128/355, 15-16=-127/350,
16-18=-105/282, 18-19=-77/196,
19-20=-64/118, 20-21=-72/41, 21-22=-92/50,
22-24=-153/99, 24-25=-182/73

BOT CHORD
2-43=93/184, 42-43=-72/184,
41-42=-72/184, 40-41=-72/184,
39-40=-72/184, 38-39=-72/184,
36-38=-72/184, 35-36=-72/180,
34-35=-72/180, 32-34=-72/185,
31-32=-72/185, 30-31=-72/185,
29-30=-72/185, 28-29=-72/185,
27-28=-72/185, 26-27=-72/185,
25-26=-72/185

WEBS
15-33=-288/72, 14-34=-130/99,
13-35=-124/130, 12-36=-125/119,
11-37=-130/124, 10-38=-123/107,
8-39=-124/76, 7-40=-118/83, 6-41=-126/84,
5-42=-97/80, 4-43=-187/98, 16-32=-127/98,
18-31=-126/130, 19-30=-124/118,
20-29=-131/124, 21-28=-99/105,
22-27=-206/165, 24-26=-19/47

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

FORCES (lb) - Maximum Compression/Maximum Tension

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

Continued on page 2

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

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

MiTek®

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

| | | | | | | |
|----------|-------|------------------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Allred | T40878656 |
| 0825-019 | B01 | Roof Special Supported Gable | 1 | 1 | Job Reference (optional) | |

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:30
ID:0WoIMM?jhfK69?ArhPGaZeynzMB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 23 lb uplift at joint 37, 12 lb uplift at joint 34, 25 lb uplift at joint 35, 19 lb uplift at joint 36, 15 lb uplift at joint 38, 4 lb uplift at joint 40, 13 lb uplift at joint 42, 9 lb uplift at joint 32, 26 lb uplift at joint 31, 20 lb uplift at joint 30, 23 lb uplift at joint 29, 14 lb uplift at joint 28, 37 lb uplift at joint 27 and 45 lb uplift at joint 2.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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

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

MiTek®

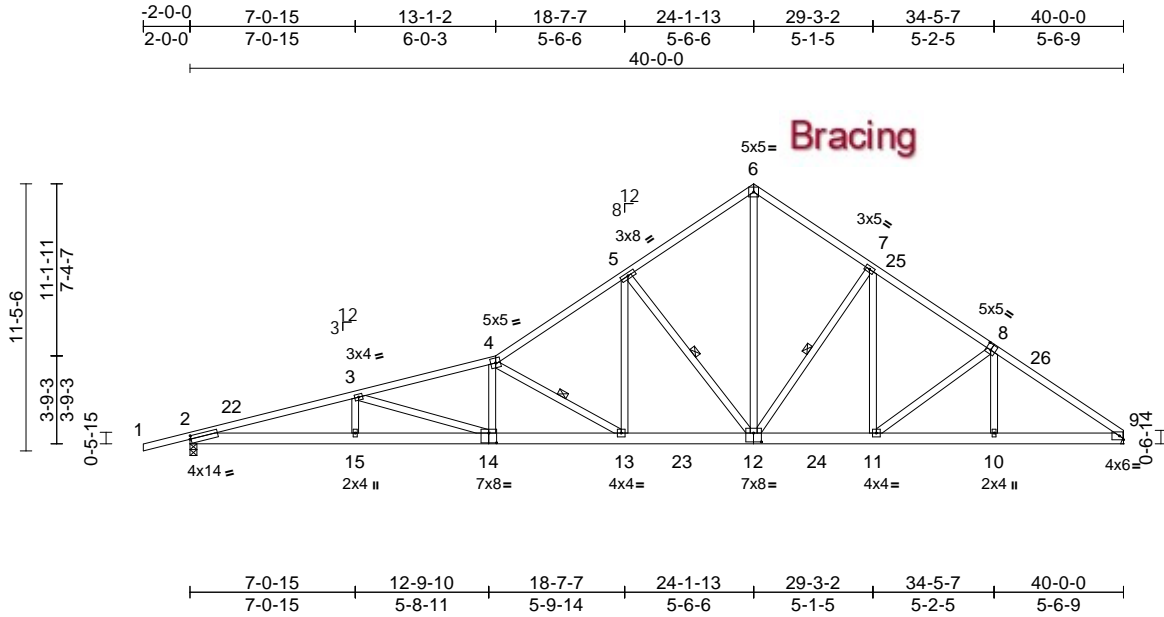
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss B02 | Truss Type Roof Special | Qty 5 | Ply 1 | Allred Job Reference (optional) | T40878657 |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31
ID:StssxmwxihvZ259IW55qTynzlQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:98.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.90 | Vert(LL) | -0.40 | 14-15 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.74 | 14-15 | >648 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.57 | Horz(CT) | 0.13 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 265 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-12, 4-13, 7-12

REACTIONS (size) 2=0-3-8, 9= Mechanical
Max Horiz 2=207 (LC 11)
Max Uplift 2=-48 (LC 12)
Max Grav 2=1858 (LC 17), 9=1789 (LC 18)

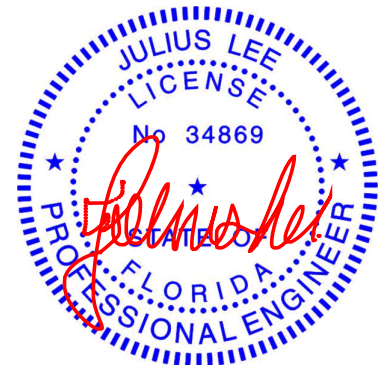
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-5557/169, 3-4=-4843/197,
4-5=-3107/200, 5-6=-2012/233,
6-7=-2012/249, 7-9=-2747/221
BOT CHORD 2-15=-111/5486, 13-15=-111/5486,
11-13=-4/2647, 10-11=-66/2203,
9-10=-65/2205
WEBS 3-15=0/174, 3-14=-740/22, 4-14=0/473,
5-12=-1577/156, 6-12=-140/1872,
5-13=0/1507, 4-13=-2471/116,
7-12=-652/132, 7-11=-8/456, 8-11=-404/130,
8-10=0/180

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 2-0-0,
Zone1 2-0-0 to 24-1-13, Zone2 24-1-13 to 29-9-11,
Zone1 29-9-11 to 40-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

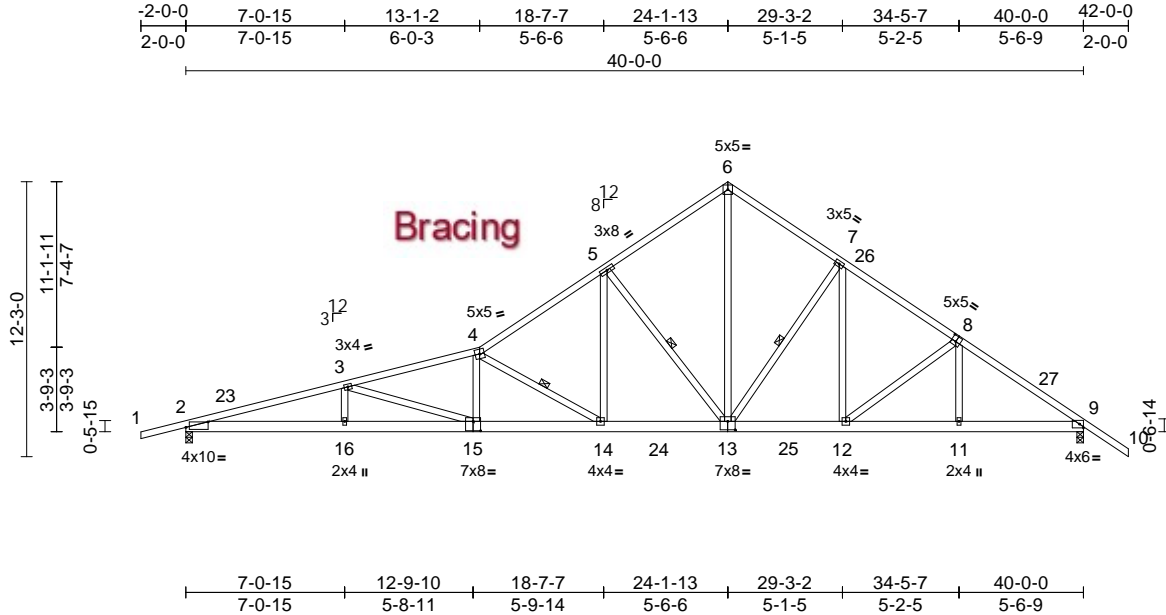
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss B03 | Truss Type Roof Special | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878658 |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31
ID:ses24qkio0b9HYmg84vecDynxhN-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:102.7

Plate Offsets (X, Y): [2:0-11-14,Edge], [8:0-2-8,0-3-0], [13:0-4-0,0-4-8], [15:0-4-0,0-5-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.90 | Vert(LL) | -0.40 | 15-16 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.74 | 15-16 | >649 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.57 | Horz(CT) | 0.13 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 269 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-13, 4-14, 7-13

REACTIONS (size) 2=0-3-8, 9=0-3-8
Max Horiz 2=216 (LC 11)
Max Uplift 2=-46 (LC 12), 9=-47 (LC 12)
Max Grav 2=1856 (LC 17), 9=1902 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/29, 2-3=-5550/163, 3-4=-4835/194,
4-5=-3101/197, 5-6=-2004/231,
6-7=-2007/224, 7-9=-2710/175, 9-10=0/67
BOT CHORD 2-16=-50/5492, 14-16=-50/5492,
12-14=0/2655, 11-12=0/2181, 9-11=0/2183
WEBS 3-16=0/174, 3-15=-741/26, 4-15=0/473,
5-13=-1576/151, 6-13=-129/1866,
5-14=0/1506, 4-14=-2468/115,
7-13=-646/130, 7-12=0/446, 8-12=-376/49,
8-11=0/171

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 2 and 47 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -2-0-0 to 2-0-0,
Zone1 2-0-0 to 24-1-13, Zone2 24-1-13 to 29-9-11,
Zone1 29-9-11 to 42-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

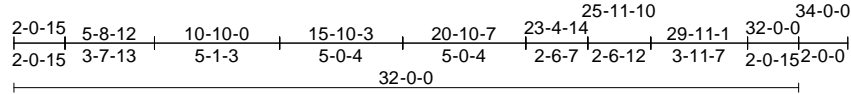
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|---------------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss C01 | Truss Type Common Structural Gable | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878659 |
|-----------------|--------------|---------------------------------------|----------|----------|------------------------------------|-----------|

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

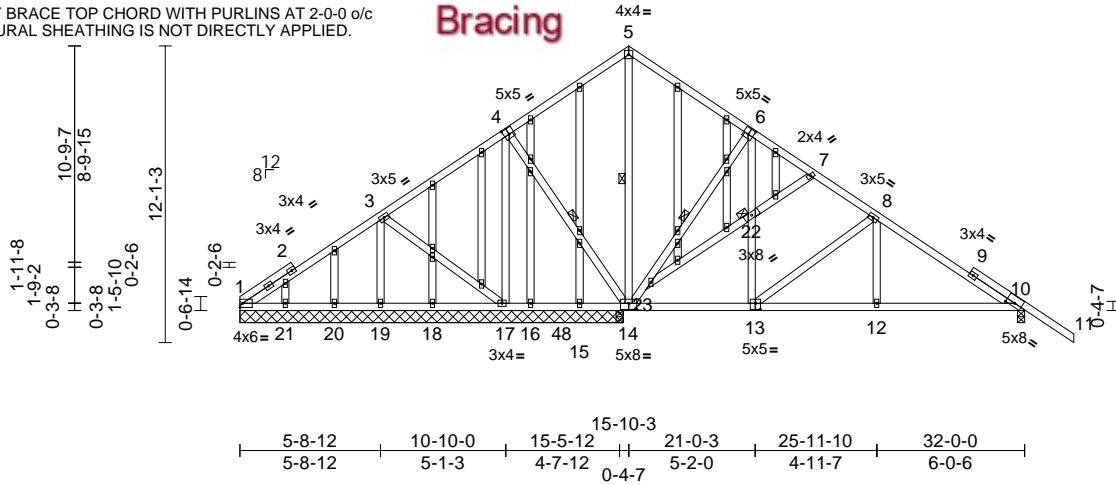
Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:31
ID:DbWjiA8u_P1DgUTmXKazqKynwb7-RfC?PsB70Hq3NSgPqnL8w3uiTXbGKwRCDou7J4zJC?f

Page: 1



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

Bracing



Scale = 1:94

Plate Offsets (X, Y): [4:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-5,0-1-12], [13:0-2-8,0-3-0], [14:0-4-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.04 | 12-47 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.31 | Vert(CT) | -0.08 | 12-47 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.00 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 280 lb | FT = 20% |

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

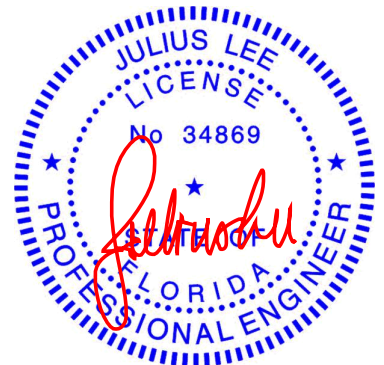
- BRACING**
- TOP CHORD Structural wood sheathing directly applied.
 - BOT CHORD Rigid ceiling directly applied.
 - WEBS 1 Row at midpt 5-14, 4-14, 6-14
 - JOINTS 1 Brace at Jt(s): 22

- REACTIONS** (size)
- 1=15-7-8, 10=0-3-8, 14=15-7-8, 15=15-7-8, 16=15-7-8, 17=15-7-8, 18=15-7-8, 19=15-7-8, 20=15-7-8, 21=15-7-8
 - Max Horiz 1=209 (LC 10)
 - Max Uplift 1=43 (LC 10), 10=53 (LC 12), 14=7 (LC 12), 17=44 (LC 12), 19=29 (LC 9), 21=31 (LC 12)
 - Max Grav 1=70 (LC 18), 10=657 (LC 18), 14=1413 (LC 18), 15=39 (LC 16), 16=91 (LC 16), 17=234 (LC 23), 18=110 (LC 16), 19=304 (LC 23), 20=68 (LC 16), 21=228 (LC 17)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-3=90/219, 3-5=33/376, 5-7=99/377, 7-8=206/63, 8-10=597/33, 10-11=0/71
 - BOT CHORD 1-21=-129/127, 20-21=-129/104, 19-20=-129/104, 18-19=-129/104, 17-18=-129/104, 16-17=-230/181, 15-16=-230/181, 12-15=-230/457, 10-12=0/457
 - WEBS 5-14=-590/0, 4-14=-196/105, 3-19=-260/57, 3-17=-126/96, 4-17=-160/75, 14-23=-653/132, 6-23=-608/101, 13-22=0/458, 6-22=0/461, 8-13=-485/75, 8-12=0/227, 7-22=-55/37, 22-23=-51/38

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 7 lb uplift at joint 14, 29 lb uplift at joint 19, 44 lb uplift at joint 17, 31 lb uplift at joint 21, 53 lb uplift at joint 10 and 43 lb uplift at joint 1.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

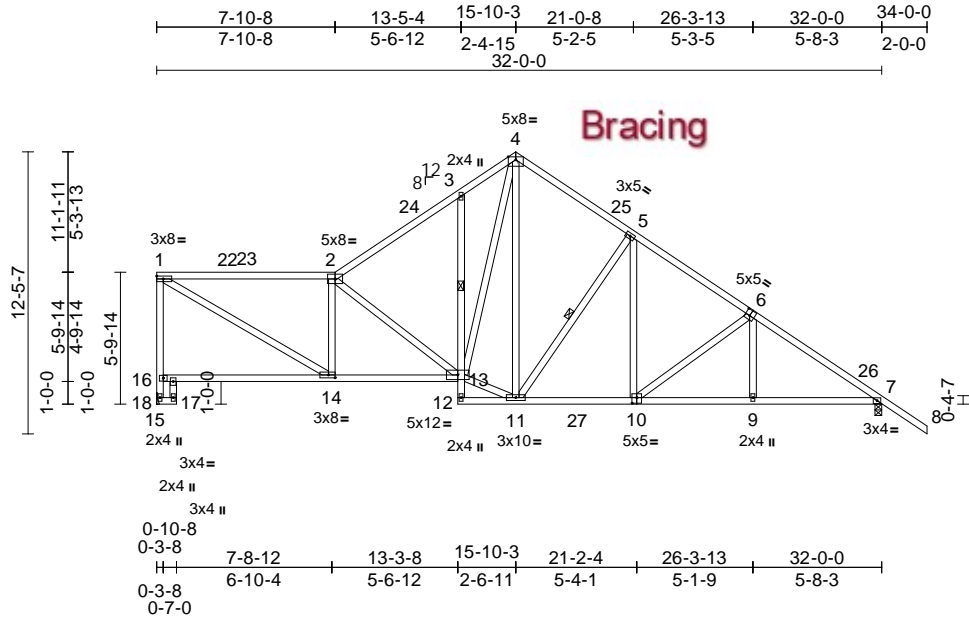
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss C05 | Truss Type Roof Special | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878663 |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:33
ID:gC?yAq2YfYmozbkDeunZfYnwPdRfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:101.7

Plate Offsets (X, Y): [6:0-2-8,0-3-0], [10:0-2-8,0-3-0], [14:0-3-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.95 | Vert(LL) | -0.12 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.61 | Vert(CT) | -0.23 | 13-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.67 | Horz(CT) | 0.13 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 230 lb | FT = 20% |

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 3-13
WEBS 1 Row at midpt 5-11

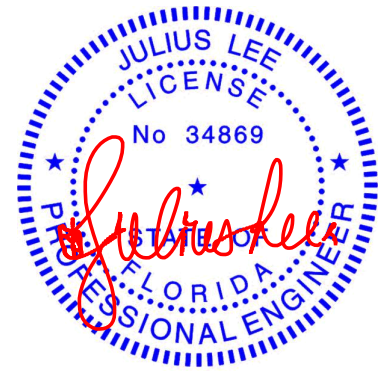
REACTIONS (size) 7=0-3-8, 18= Mechanical
Max Horiz 18=281 (LC 10)
Max Uplift 7=-48 (LC 12)
Max Grav 7=1540 (LC 18), 18=1402 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 16-18=-1421/15, 1-16=-1245/77,
1-2=-1869/85, 2-3=-1680/115,
3-4=-1634/195, 4-5=-1334/167,
5-7=-2175/114, 7-8=0/67
BOT CHORD 17-18=-144/120, 15-17=-163/178,
15-16=-42/230, 14-15=-167/279,
13-14=0/2014, 12-13=0/15, 3-13=-228/119,
11-12=-16/36, 9-11=0/1729, 7-9=0/1733
WEBS 1-14=-49/2046, 2-14=-823/154,
2-13=-750/68, 4-13=-56/1267, 4-11=-96/336,
11-13=0/1170, 5-11=-679/96, 5-10=0/493,
6-10=-458/56, 6-9=0/217

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12,
Zone1 3-1-12 to 15-10-3, Zone2 15-10-3 to 20-1-2,
Zone1 20-1-2 to 34-0-0 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 48 lb uplift at joint
7.
- This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard

NOTES
1) Unbalanced roof live loads have been considered for
this design.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

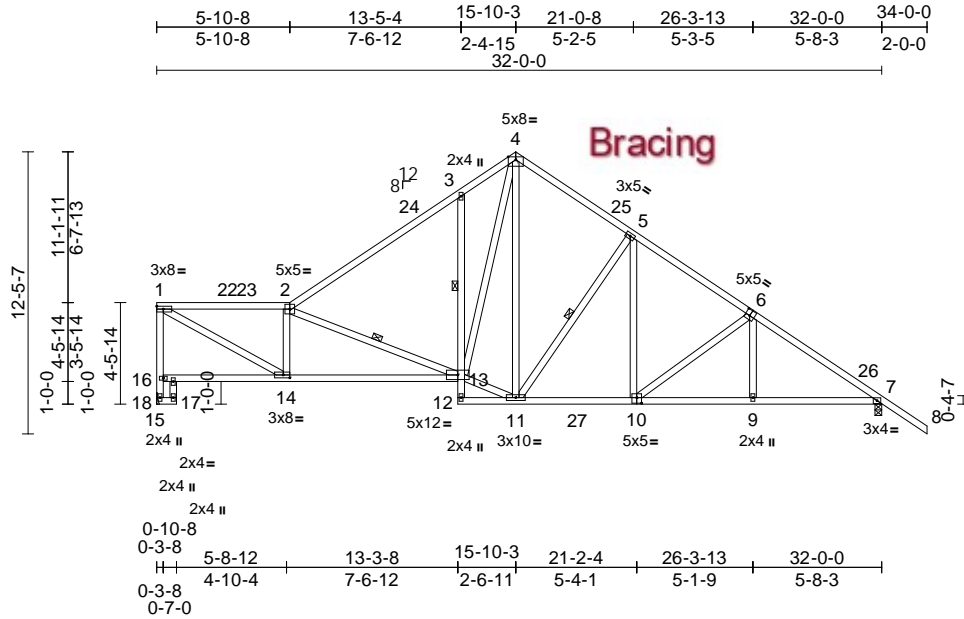
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss C06 | Truss Type Roof Special | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878664 |
|-----------------|--------------|----------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:33
ID:zpR1C1Lc?woOrHaq2xCBeynwPF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC7f

Page: 1



Scale = 1:101.7

Plate Offsets (X, Y): [6:0-2-8,0-3-0], [10:0-2-8,0-3-0], [14:0-3-8,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | -0.18 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.75 | Vert(CT) | -0.35 | 13-14 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.52 | Horz(CT) | 0.11 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 225 lb | FT = 20% |

LUMBER

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

BRACING

- TOP CHORD Structural wood sheathing directly applied, except end verticals.
- BOT CHORD Rigid ceiling directly applied. Except: 1 Row at midpt 3-13
- WEBS 1 Row at midpt 2-13, 5-11

REACTIONS

- (size) 7=0-3-8, 18= Mechanical
- Max Horiz 18=266 (LC 10)
- Max Uplift 7=-49 (LC 12)
- Max Grav 7=1536 (LC 18), 18=1391 (LC 18)

FORCES

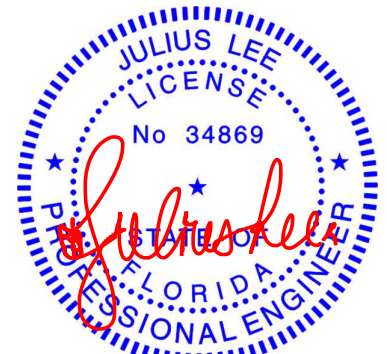
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 16-18=-1436/6, 1-16=-1299/52, 1-2=-2142/65, 2-3=-1722/99, 3-4=-1691/204, 4-5=-1337/164, 5-7=-2169/111, 7-8=0/67
- BOT CHORD 17-18=-103/99, 15-17=-141/144, 15-16=-90/189, 14-15=-193/278, 13-14=0/2314, 12-13=0/11, 3-13=-361/167, 11-12=-97/5, 9-11=0/1725, 7-9=0/1728
- WEBS 1-14=-36/2340, 2-14=-924/139, 2-13=-920/72, 4-13=-61/1364, 4-11=-106/316, 11-13=0/1245, 5-11=-681/97, 5-10=0/492, 6-10=-457/56, 6-9=0/217

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 15-10-3, Zone2 15-10-3 to 20-1-2, Zone1 20-1-2 to 34-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 49 lb uplift at joint 7.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

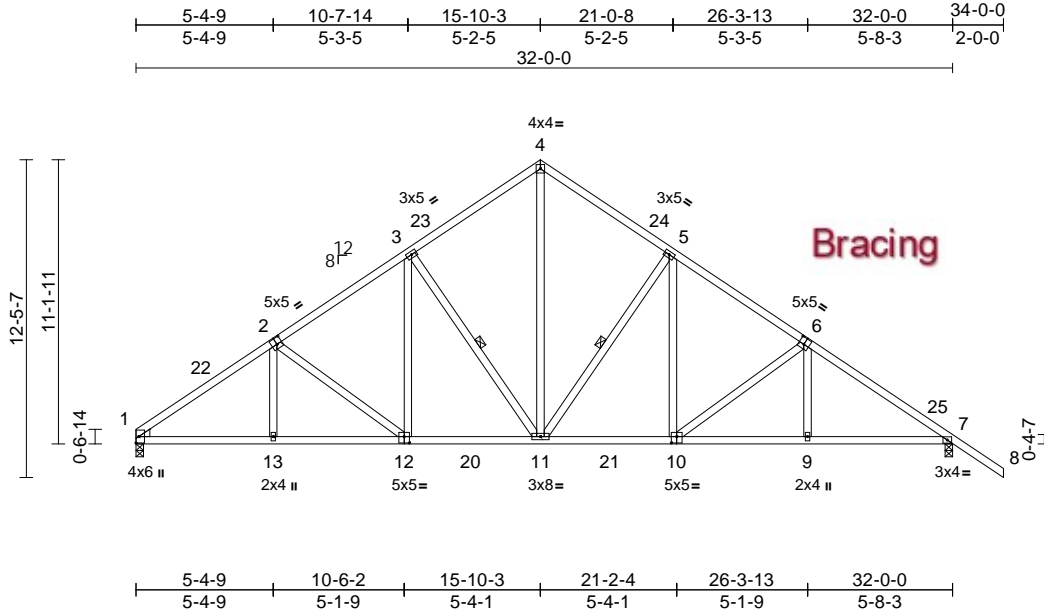
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss C09 | Truss Type Common | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878667 |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:34
ID:MwG02BJLmi6rChftGq56wmyrnwK7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:90.3

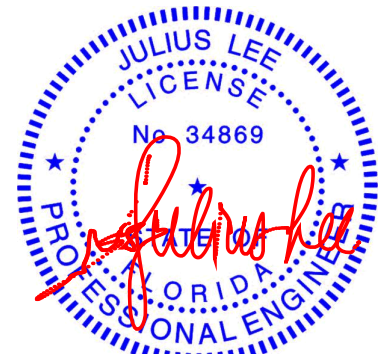
Plate Offsets (X, Y): [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-2-8,0-3-0], [12:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.11 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.56 | Vert(CT) | -0.20 | 10-11 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.08 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 201 lb | FT = 20% |

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.2
 - WEBS 2x4 SP No.2
 - WEDGE Left: 2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied.
 - BOT CHORD Rigid ceiling directly applied.
 - WEBS 1 Row at midpt 5-11, 3-11
- REACTIONS** (size) 1=0-3-8, 7=0-3-8
- Max Horiz 1=-215 (LC 10)
 - Max Uplift 7=-50 (LC 12)
 - Max Grav 1=1437 (LC 17), 7=1553 (LC 18)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-3=-2118/120, 3-4=-1376/165, 4-5=-1376/160, 5-7=-2200/107, 7-8=0/67
 - BOT CHORD 1-13=0/1846, 11-13=0/1844, 9-11=0/1756, 7-9=0/1759
 - WEBS 4-11=-83/1177, 5-11=-673/95, 5-10=0/490, 6-10=-460/56, 6-9=0/218, 3-11=-653/97, 2-13=0/182, 2-12=-381/73, 3-12=0/453

- 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 3-06-00 tall by 2-00-00 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 50 lb uplift at joint 7.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-10-3, Zone2 15-10-3 to 20-1-2, Zone1 20-1-2 to 34-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

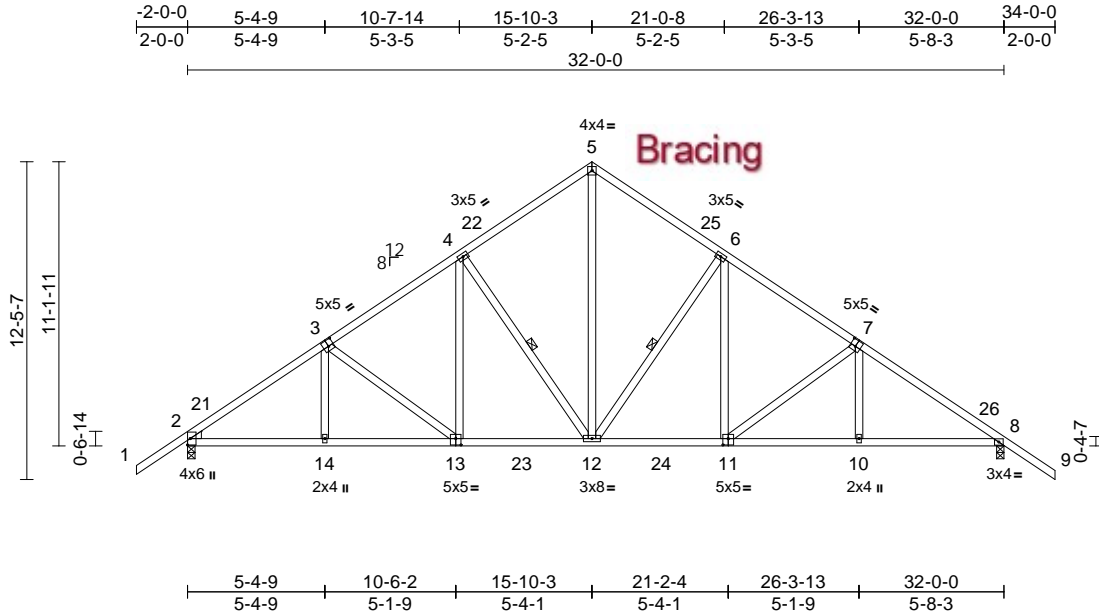
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss C10 | Truss Type Common | Qty 4 | Ply 1 | Allred Job Reference (optional) | T40878668 |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35
ID:P2H7qeDyhx0SKryh9OsWuywF4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:90.3

Plate Offsets (X, Y): [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.36 | Vert(LL) | -0.11 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.63 | Vert(CT) | -0.20 | 11-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.33 | Horz(CT) | 0.08 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 205 lb | FT = 20% |

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.2
 - WEBS 2x4 SP No.2
 - WEDGE Left: 2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied.
 - BOT CHORD Rigid ceiling directly applied.
 - WEBS 1 Row at midpt 6-12, 4-12
- REACTIONS** (size) 2=0-3-8, 8=0-3-8
- Max Horiz 2=223 (LC 11)
 - Max Uplift 2=-47 (LC 12), 8=-48 (LC 12)
 - Max Grav 2=1549 (LC 17), 8=1551 (LC 18)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/67, 2-4=-2087/106, 4-5=-1372/158, 5-6=-1370/158, 6-8=-2195/106, 8-9=0/67
 - BOT CHORD 2-14=0/1815, 12-14=0/1813, 10-12=0/1751, 8-10=0/1754
 - WEBS 5-12=-76/1172, 6-12=-674/95, 6-11=0/490, 7-11=-460/56, 7-10=0/218, 4-12=-647/95, 3-14=0/176, 3-13=-353/56, 4-13=0/441

- 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 3-06-00 tall by 2-00-00 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 47 lb uplift at joint 2 and 48 lb uplift at joint 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S)** Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-10-3, Zone2 15-10-3 to 20-1-2, Zone1 20-1-2 to 34-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

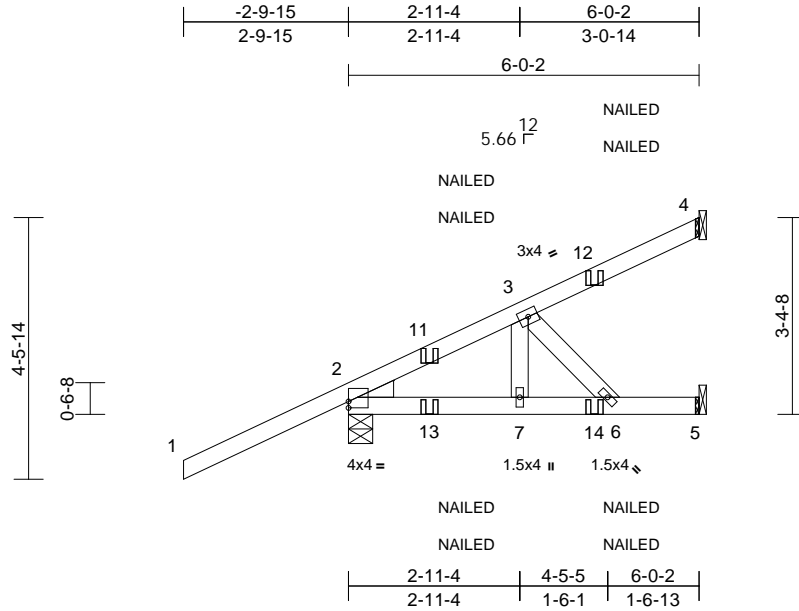
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|---------------|-----------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss CJ01 | Truss Type Diagonal Hip Girder | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878669 |
|-----------------|---------------|-----------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35
ID:enKXijKbaixk1j1gjY2zOnynwEx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC7f

Page: 1



Scale = 1:39.5

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.62 | Vert(LL) | -0.03 | 6-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(CT) | -0.04 | 6-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.04 | Horz(CT) | -0.01 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 30 lb | FT = 20% |

LUMBER

| | |
|-----------|-------------------|
| TOP CHORD | 2x4 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| 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 6-0-0 oc bracing. |

REACTIONS

| | |
|------------|--|
| (size) | 2=0-4-15, 4= Mechanical, 5= Mechanical |
| Max Horiz | 2=116 (LC 25) |
| Max Uplift | 2=-162 (LC 8), 4=-23 (LC 8), 5=-13 (LC 5) |
| Max Grav | 2=377 (LC 13), 4=99 (LC 19), 5=118 (LC 25) |

FORCES

| | |
|--|------------------------------------|
| (lb) - Maximum Compression/Maximum Tension | |
| TOP CHORD | 1-2=0/72, 2-3=-296/437, 3-4=-55/35 |
| BOT CHORD | 2-7=-310/198, 6-7=-98/198, 5-6=0/0 |
| WEBS | 3-7=-164/221, 3-6=-277/138 |

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional); cantilever left and right exposed;
end vertical 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 3-06-00 tall by 2-00-00 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 23 lb uplift at joint 4, 162 lb uplift at joint 2 and 13 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=73 (F=37, B=37), 13=81 (F=40, B=40), 14=6 (F=3, B=3)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

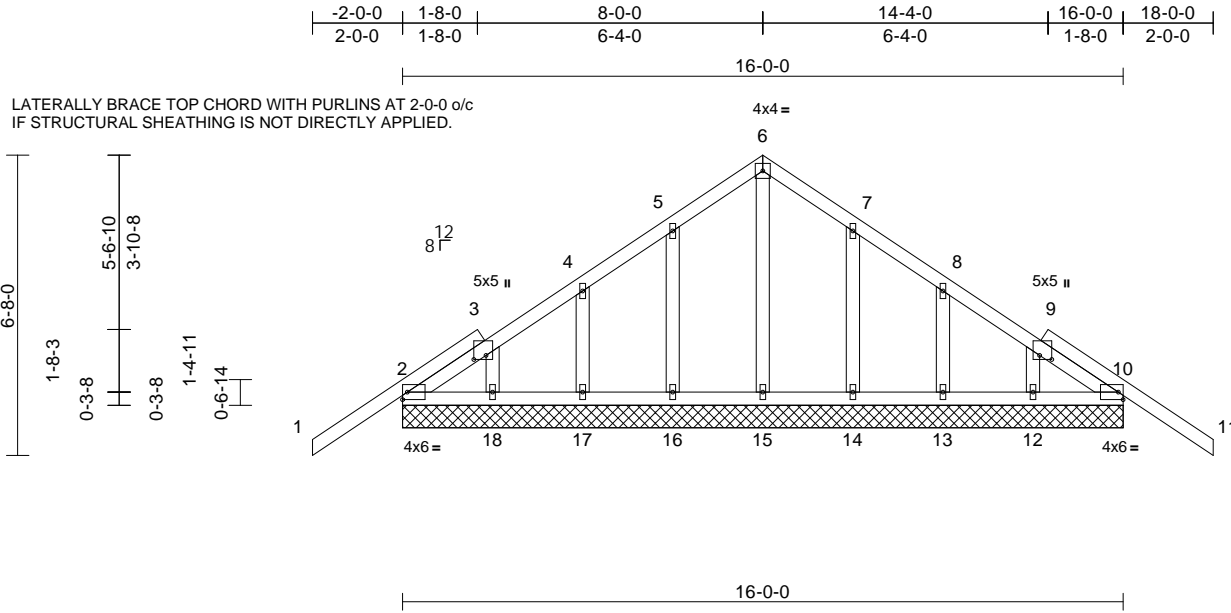
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|--------------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss E01 | Truss Type Common Supported Gable | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878670 |
|-----------------|--------------|--------------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35
ID:SyjLecSEMlqYwL?Q7mm1rsynvjD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.2
Plate Offsets (X, Y): [3:0-1-1,0-3-4], [9:0-1-1,0-3-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 22 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 94 lb | FT = 20% |

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

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

REACTIONS (size)
2=16-0-0, 10=16-0-0, 12=16-0-0,
13=16-0-0, 14=16-0-0, 15=16-0-0,
16=16-0-0, 17=16-0-0, 18=16-0-0
Max Horiz 2=116 (LC 11)
Max Uplift 2=70 (LC 12), 10=70 (LC 12),
13=30 (LC 12), 14=17 (LC 12),
16=17 (LC 12), 17=30 (LC 12)
Max Grav 2=261 (LC 1), 10=261 (LC 1),
12=105 (LC 3), 13=173 (LC 1),
14=164 (LC 24), 15=143 (LC 17),
16=165 (LC 17), 17=173 (LC 1),
18=108 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-147/116, 3-4=-74/64,
4-5=-71/81, 5-6=-83/145, 6-7=-83/144,
7-8=-51/82, 8-9=-42/29, 9-10=-145/111,
10-11=0/67
BOT CHORD 2-18=-103/169, 17-18=-48/136,
16-17=-48/136, 15-16=-48/136,
14-15=-48/136, 13-14=-48/136,
12-13=-48/136, 10-12=-106/185
WEBS 6-15=-102/10, 5-16=-127/90, 4-17=-126/100,
3-18=-94/65, 7-14=-126/90, 8-13=-126/101,
9-12=-95/66

NOTES
1) Unbalanced roof live loads have been considered for this design.


- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 1.5x4 (II) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 2, 70 lb uplift at joint 10, 17 lb uplift at joint 16, 30 lb uplift at joint 17, 17 lb uplift at joint 14, 30 lb uplift at joint 13, 70 lb uplift at joint 2 and 70 lb uplift at joint 10.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

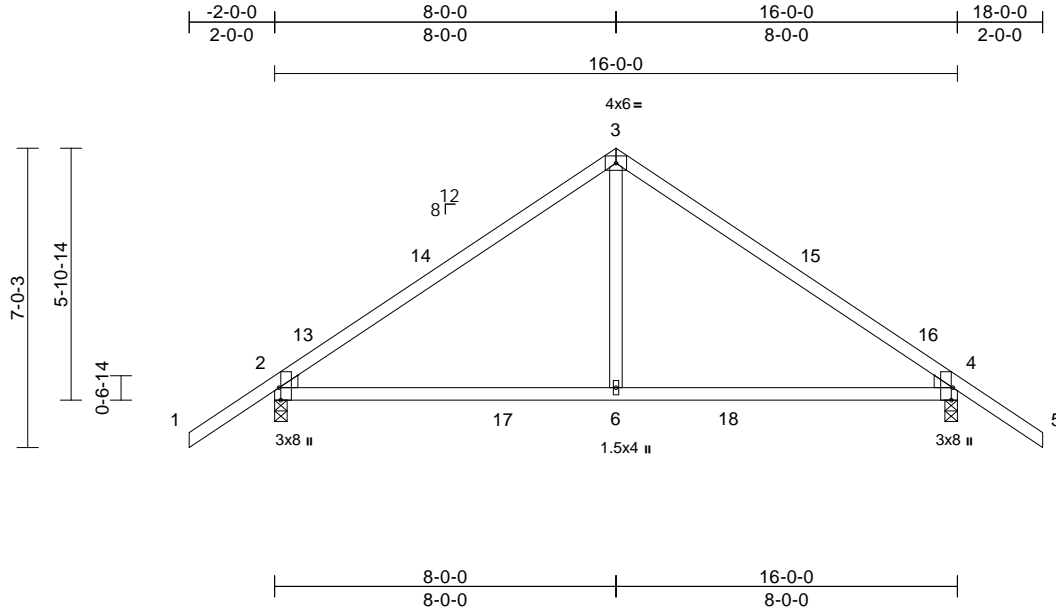
| | |
|--|--|
| <p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)</p> |  <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p> |
|--|--|

| | | | | | | |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss E02 | Truss Type Common | Qty 3 | Ply 1 | Allred Job Reference (optional) | T40878671 |
|-----------------|--------------|----------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:35
ID:H64cvfW?ybaieGTaU1tR57yrvj7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54

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 (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.57 | Vert(LL) | -0.11 | 6-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.19 | 6-9 | >988 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.10 | Horz(CT) | 0.02 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 69 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 4=0-3-8
 Max Horiz 2=123 (LC 10)
 Max Uplift 2=48 (LC 12), 4=48 (LC 12)
 Max Grav 2=849 (LC 17), 4=849 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

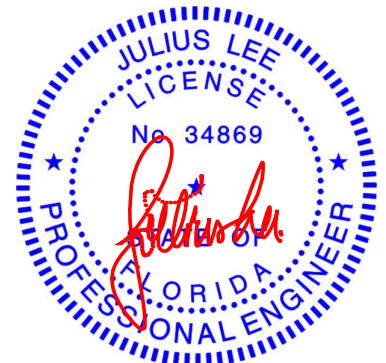
TOP CHORD 1-2=0/67, 2-3=-849/96, 3-4=-848/96,
 4-5=0/67
 BOT CHORD 2-6=0/661, 4-6=0/661
 WEBS 3-6=0/444

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-0-0, Zone2 8-0-0 to 12-2-15, Zone1 12-2-15 to 18-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 48 lb uplift at joint 2 and 48 lb uplift at joint 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

MiTek®

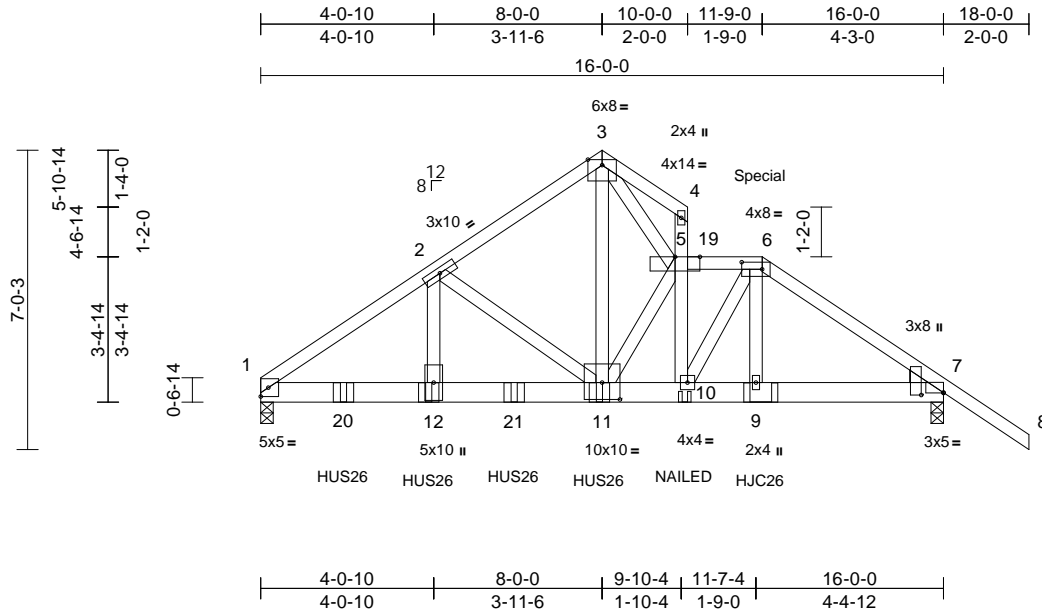
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|-----------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss E03 | Truss Type Roof Special Girder | Qty 1 | Ply 2 | Allred Job Reference (optional) | T40878672 |
|-----------------|--------------|-----------------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:36
ID:lZAQgpkli7s0r1r2XpBfpwvnr-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:54
Plate Offsets (X, Y): [6:0-5-12,0-2-0], [7:Edge,0-0-1], [7:0-0-10,0-6-4], [11:0-5-0,0-4-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.49 | Vert(LL) | -0.09 | 11-12 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.45 | Vert(CT) | -0.18 | 11-12 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.78 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 224 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.2
WEDGE Right: 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8
Max Horiz 1=-106 (LC 6)
Max Grav 1=5555 (LC 13), 7=3110 (LC 14)

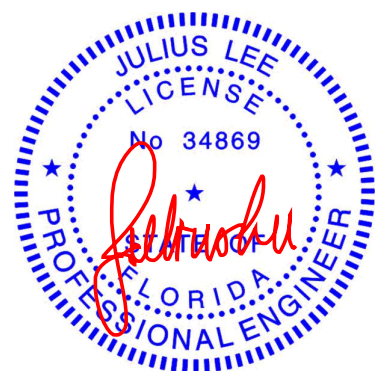
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7864/0, 2-3=-4655/0, 3-4=-607/0, 5-10=-2615/0, 4-5=-395/0, 5-6=-5287/0, 6-7=-4789/0, 7-8=0/67
BOT CHORD 1-12=0/6563, 11-12=0/6563, 10-11=0/5228, 9-10=0/3951, 7-9=0/3945
WEBS 3-5=-5646/0, 6-10=0/2578, 6-9=0/172, 3-11=0/7245, 5-11=-2554/0, 2-11=-3299/0, 2-12=0/3518

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 7-11-4 to connect truss(es) to back face of bottom chord.
- Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 11-8-10 from the left end to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 66 lb up at 11-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

Vert: 10=-119 (B), 6=-52 (B), 9=-57 (B), 11=-1577 (B), 12=-1577 (B), 20=-1577 (B), 21=-1577 (B)

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-11 2x4 - 1 row at 0-7-0 oc, member 2-12 2x4 - 2 rows staggered at 0-7-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 5-6=-60, 6-8=-60, 13-16=-20
Concentrated Loads (lb)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

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

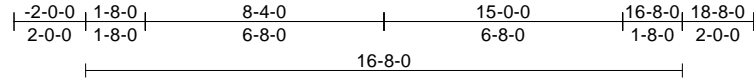
| | | | | | | |
|-----------------|--------------|--------------------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss F01 | Truss Type Common Supported Gable | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878673 |
|-----------------|--------------|--------------------------------------|----------|----------|------------------------------------|-----------|

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

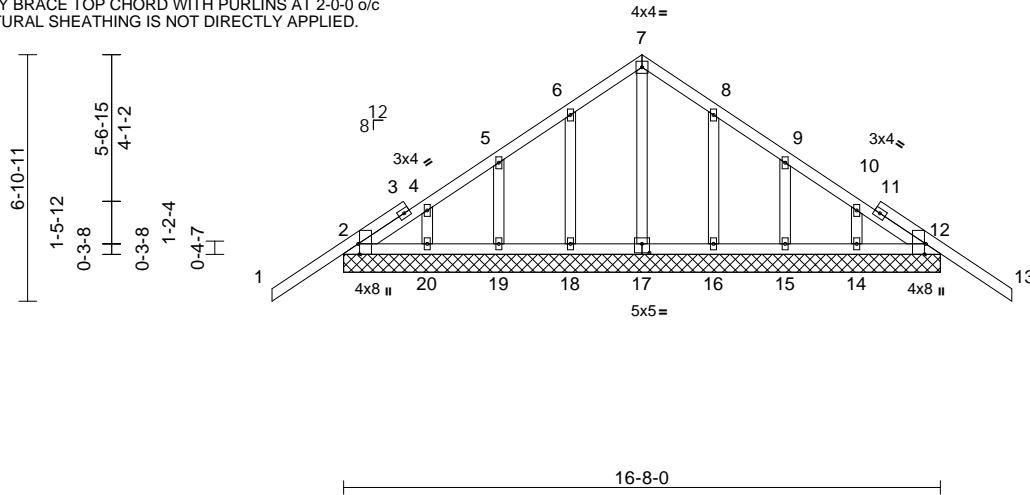
Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:36

Page: 1

ID:nPcvoBnSaVO_E5u48V4gaGzoZrt-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4zJC?f



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



Scale = 1:64.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [12:0-3-8,Edge], [17:0-2-8,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.07 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.05 | Horz(CT) | 0.00 | 24 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 95 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=16-8-0, 12=16-8-0, 14=16-8-0,
 15=16-8-0, 16=16-8-0, 17=16-8-0,
 18=16-8-0, 19=16-8-0, 20=16-8-0
 Max Horiz 2=-120 (LC 10)
 Max Uplift 2=-78 (LC 12), 12=-78 (LC 12),
 15=-36 (LC 12), 16=-15 (LC 12),
 18=-15 (LC 12), 19=-36 (LC 12)
 Max Grav 2=268 (LC 1), 12=268 (LC 1),
 14=122 (LC 18), 15=173 (LC 18),
 16=164 (LC 24), 17=138 (LC 17),
 18=165 (LC 17), 19=172 (LC 17),
 20=121 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

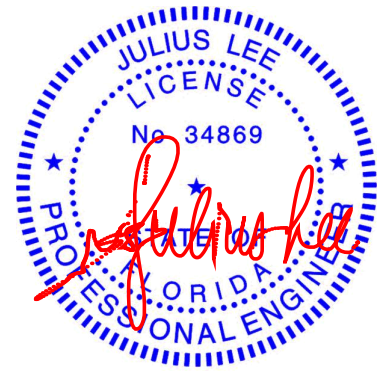
TOP CHORD 1-2=0/67, 2-4=-96/76, 4-5=-85/68,
 5-6=-77/93, 6-7=-86/153, 7-8=-86/153,
 8-9=-55/93, 9-10=-51/27, 10-12=-91/54,
 12-13=0/67
 BOT CHORD 2-20=-59/137, 19-20=-48/131,
 18-19=-48/131, 16-18=-48/131,
 15-16=-48/131, 14-15=-48/131,
 12-14=-67/147
 WEBS 7-17=-104/13, 6-18=-126/85, 5-19=-127/103,
 4-20=-100/61, 8-16=-125/85, 9-15=-127/103,
 10-14=-100/60

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 78 lb uplift at joint 2, 78 lb uplift at joint 12, 15 lb uplift at joint 18, 36 lb uplift at joint 19, 15 lb uplift at joint 16, 36 lb uplift at joint 15, 78 lb uplift at joint 2 and 78 lb uplift at joint 12.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

MiTek®

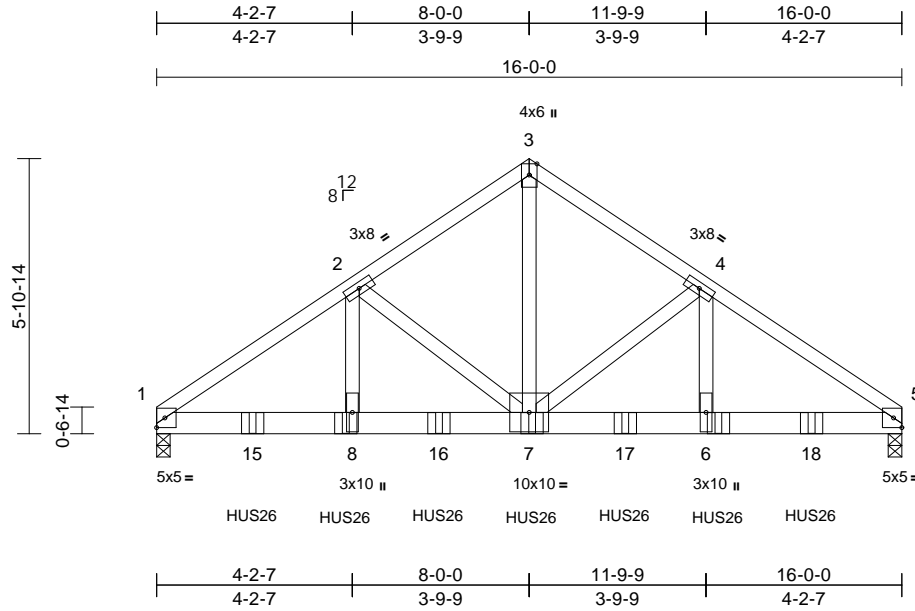
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|-----------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss F02 | Truss Type Common Girder | Qty 1 | Ply 2 | Allred Job Reference (optional) | T40878674 |
|-----------------|--------------|-----------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:36
 ID:YR5GRZ7wm97P03FscDJAZynveT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.33 | Vert(LL) | -0.09 | 7-8 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.16 | 7-8 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.66 | Horz(CT) | 0.05 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 190 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 5=0-3-8
 Max Horiz 1=98 (LC 7)
 Max Grav 1=5366 (LC 13), 5=5409 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-7838/0, 2-3=-5573/0, 3-4=-5574/0, 4-5=-7838/0
 BOT CHORD 1-8=0/6529, 7-8=0/6529, 6-7=0/6462, 5-6=0/6462
 WEBS 2-8=0/2545, 2-7=-2396/0, 3-7=0/5899, 4-7=-2397/0, 4-6=0/2544

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-4-0 oc, Except member 2-7 2x4 - 1 row at 0-9-0 oc, Except member 4-7 2x4 - 1 row at 0-9-0 oc, member 3-7 2x4 - 1 row at 0-8-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional); cantilever left and right exposed ;
 end vertical left and right exposed; Lumber DOL=1.60
 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-3=-60, 3-5=-60, 9-12=-20
 Concentrated Loads (lb)
 Vert: 8=-1250 (B), 7=-1250 (B), 6=-1250 (B), 15=-1250 (B), 16=-1250 (B), 17=-1250 (B), 18=-1250 (B)



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

MiTek®

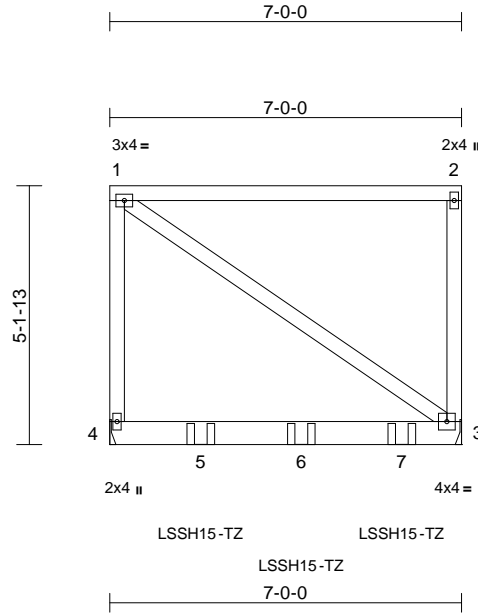
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|---------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss G01 | Truss Type Flat Girder | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878675 |
|-----------------|--------------|---------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37
ID:eNtnBAs4rVQljF5LtGGkd9yo_A0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?

Page: 1



| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.97 | Vert(LL) | -0.10 | 3-4 | >800 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.98 | Vert(CT) | -0.22 | 3-4 | >366 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.09 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 51 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

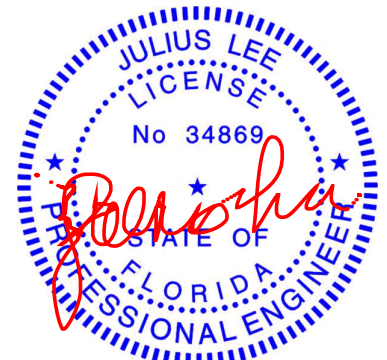
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-9-12 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical
Max Horiz 4=-133 (LC 6)
Max Uplift 3=-141 (LC 5), 4=-126 (LC 4)
Max Grav 3=761 (LC 13), 4=678 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-205/95, 1-2=-52/47, 2-3=-201/47
BOT CHORD 3-4=-119/103
WEBS 1-3=-82/82

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 4 and 141 lb uplift at joint 3.
 - Use MiTek LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-9-12 from the left end to 5-9-12 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-238 (B), 6=-238 (B), 7=-238 (B)

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

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

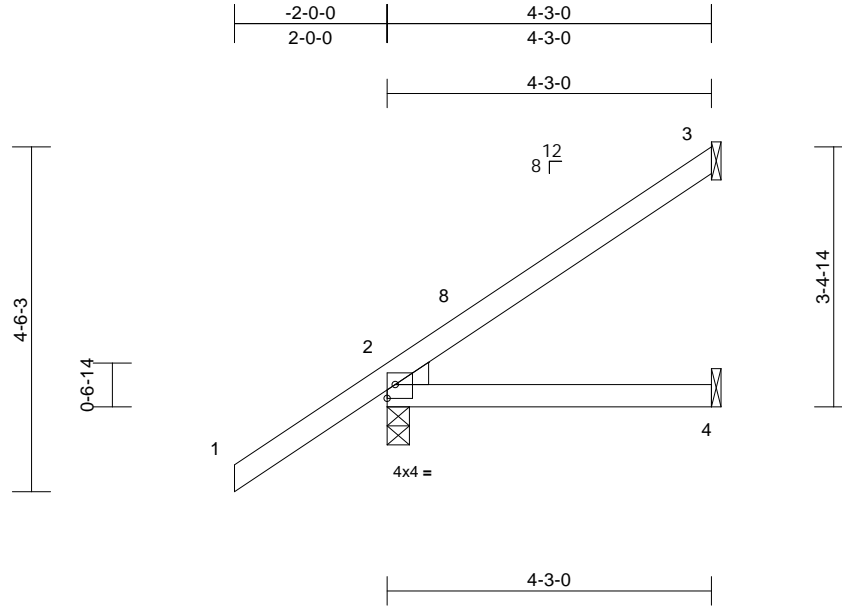
| | | | | | | |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss J01 | Truss Type Jack-Open | Qty 1 | Ply 1 | Allred Job Reference (optional) | T40878676 |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37

Page: 1

ID:qkvk25ZxcCmbRsC3St7ab7yoFC5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:30.2

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.33 | Vert(LL) | 0.01 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.15 | 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-AS | | | | | | | Weight: 18 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE Left: 2x4 SP No.2

BRACING

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
 Max Horiz 2=115 (LC 12)
 Max Uplift 2=-39 (LC 12), 3=-29 (LC 12)
 Max Grav 2=316 (LC 1), 3=100 (LC 17), 4=72 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

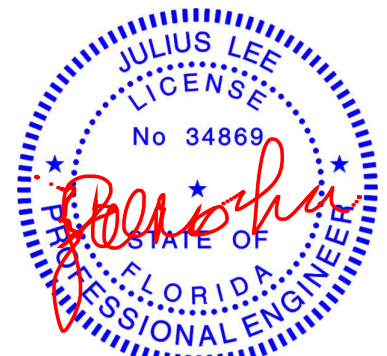
TOP CHORD 1-2=0/67, 2-3=-268/126
 BOT CHORD 2-4=-89/109

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0,
 Zone1 1-0-0 to 4-2-4 zone; cantilever left and right
 exposed; end vertical left and right exposed; C-C for
 members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 29 lb uplift at joint
 3 and 39 lb uplift at joint 2.
- 7) This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

MiTek®

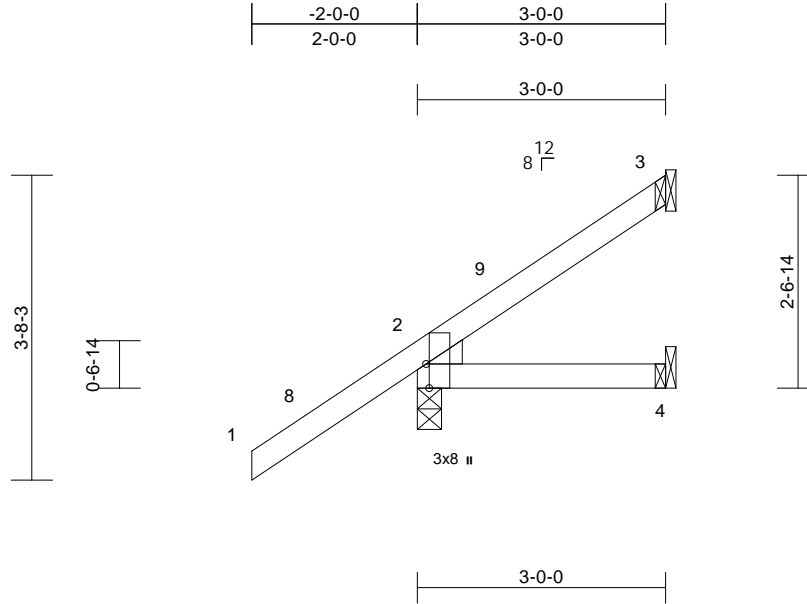
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss J02 | Truss Type Jack-Open | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878677 |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37
ID:jV8FuScSfRG0wUWrhjCWlzyoFC1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:27.8

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 (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | 0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.06 | Vert(CT) | -0.01 | 4-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MP | | | | | | | Weight: 14 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE Left: 2x4 SP No.2

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 53 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=95 (LC 12)
Max Uplift 2=-53 (LC 12), 3=-15 (LC 12)
Max Grav 2=278 (LC 1), 3=60 (LC 17), 4=47 (LC 3)

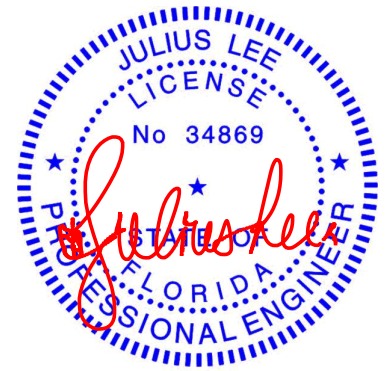
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/67, 2-3=-230/126
BOT CHORD 2-4=-105/132

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

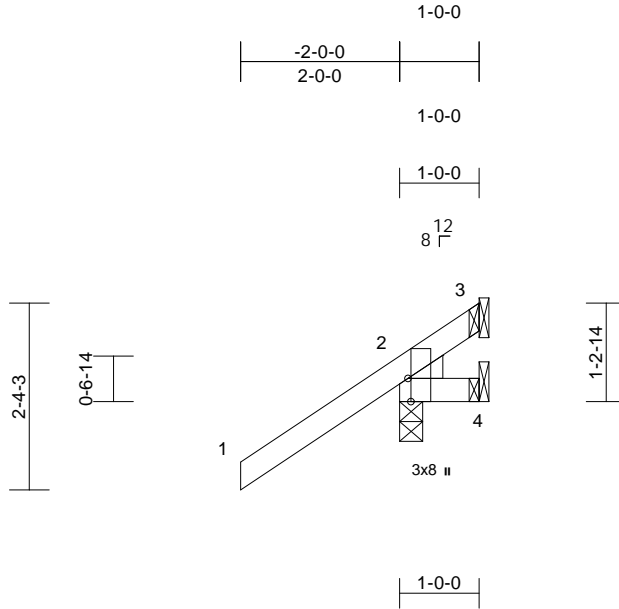
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss J03 | Truss Type Jack-Open | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878678 |
|-----------------|--------------|-------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37
ID:74qOWUfKyMebrnxFPMrIDNcyoFC_RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:29

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 (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | 0.00 | 7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | 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
WEDGE Left: 2x4 SP No.2

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 2, 52 lb uplift at joint 4 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=64 (LC 12)
Max Uplift 2=-110 (LC 12), 3=-30 (LC 1), 4=-52 (LC 1)
Max Grav 2=281 (LC 1), 3=23 (LC 12), 4=38 (LC 12)

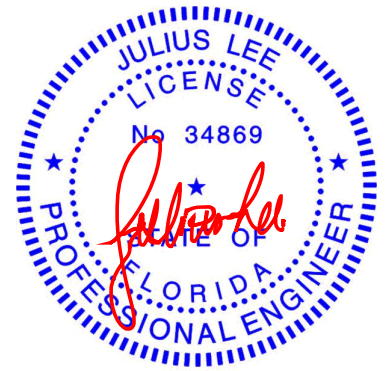
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/67, 2-3=-160/110
BOT CHORD 2-4=-109/138

NOTES

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

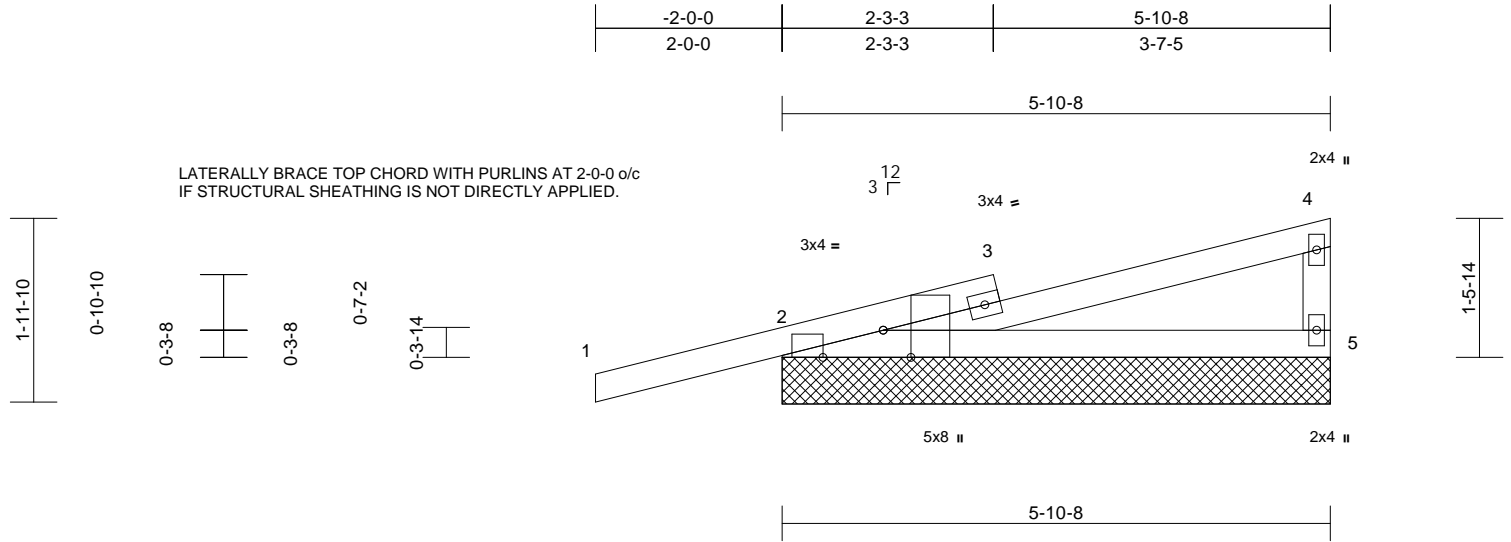
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|--------------|---|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss M01 | Truss Type Monopitch Supported Gable | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878679 |
|-----------------|--------------|---|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37
ID:VaYFdzW7czamp10j8bKVymyoExN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcDoi7J4zJC?f

Page: 1



Scale = 1:24.7

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-7-12,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.35 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 24 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS (size) 2=5-10-8, 5=5-10-8

Max Horiz 2=39 (LC 11)
Max Uplift 2=-58 (LC 12)
Max Grav 2=370 (LC 1), 5=208 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

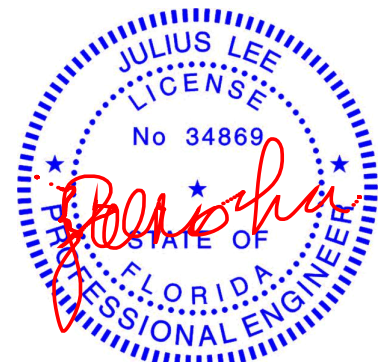
TOP CHORD 4-5=-130/158, 1-2=0/29, 2-4=-142/60
BOT CHORD 2-5=-17/41

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 58 lb uplift at joint 2 and 58 lb uplift at joint 2.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

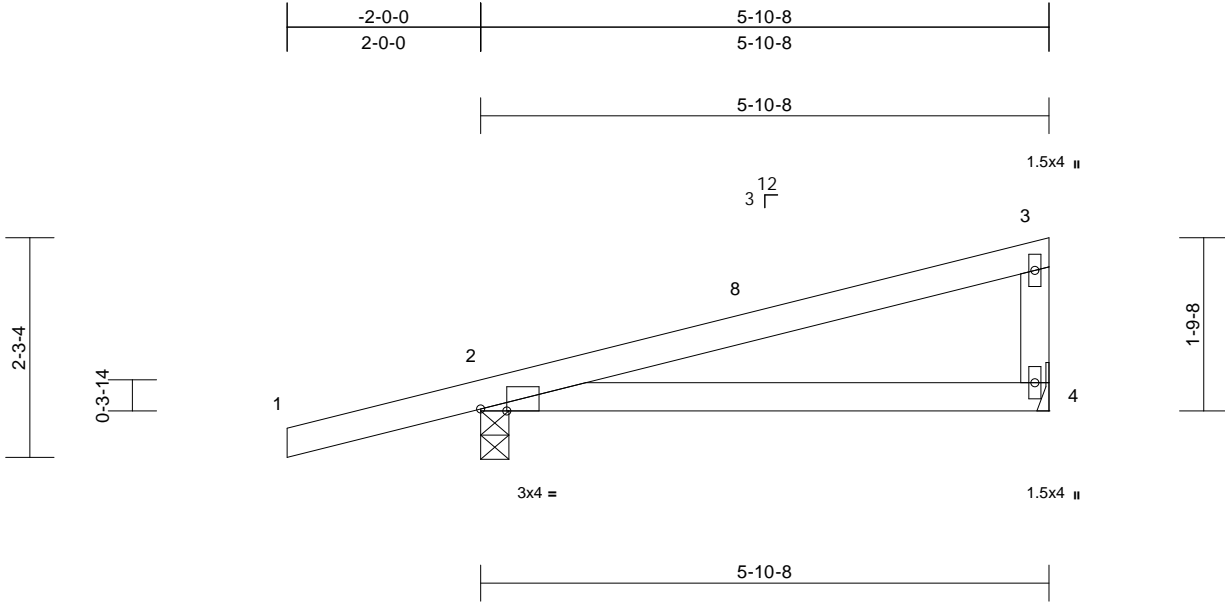
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|----------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Allred | T40878680 |
| 0825-019 | M02 | Monopitch | 15 | 1 | Job Reference (optional) | |

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:37
 ID:1fWL_Ri9rtbVjmEn4ycFc8yoEx7-RfC?PsB70Hq3NSgPqnL8w3uITxBGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:23.8
 Plate Offsets (X, Y): [2:0-3-4,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.35 | Vert(LL) | 0.06 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(CT) | -0.09 | 4-7 | >791 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 23 lb | FT = 20% |

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

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

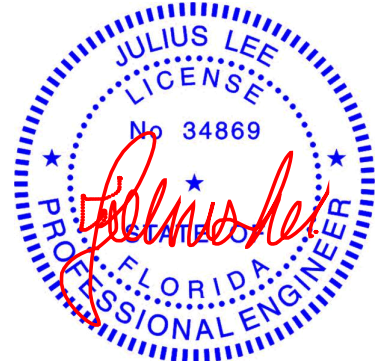
REACTIONS (size) 2=0-3-8, 4= Mechanical
 Max Horiz 2=47 (LC 11)
 Max Uplift 2=-84 (LC 12), 4=-18 (LC 12)
 Max Grav 2=370 (LC 1), 4=208 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/29, 2-3=-157/41, 3-4=-142/198
 BOT CHORD 2-4=-44/149

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4 and 84 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-1-0, Zone1 1-1-0 to 5-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.



Julius Lee PE No. 34869
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

April 20,2026

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

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

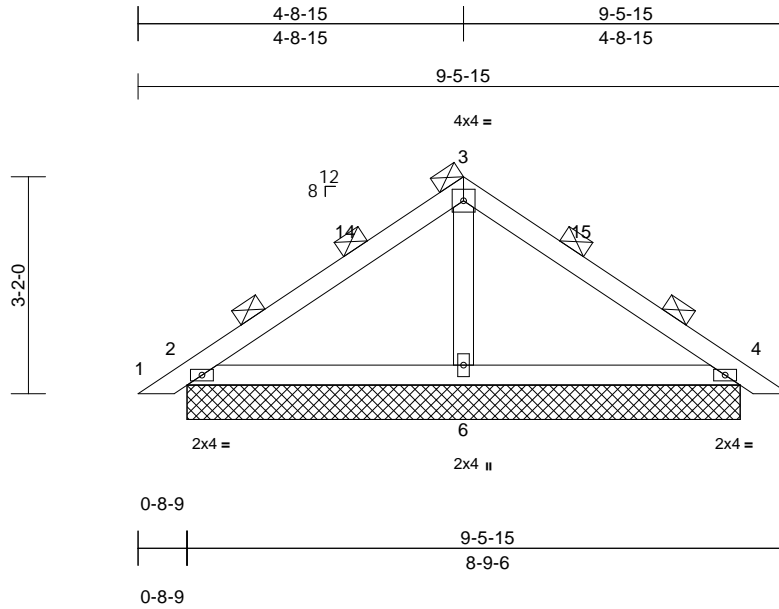
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|---------------|-------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss PB01 | Truss Type Piggyback | Qty 2 | Ply 2 | Allred Job Reference (optional) | T40878681 |
|-----------------|---------------|-------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38
ID:Zvw3dTHC57AT1N33W6U2hmyoExg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:33.6

| Loading | (psf) | Spacing | 4-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.19 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.02 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-MS | | | | | | | Weight: 65 lb | FT = 20% |

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS

(size) 2=8-0-13, 4=8-0-13, 6=8-0-13
Max Horiz 2=110 (LC 11)
Max Uplift 2=-45 (LC 12), 4=-45 (LC 12)
Max Grav 2=392 (LC 1), 4=392 (LC 1), 6=615
(LC 1)

FORCES

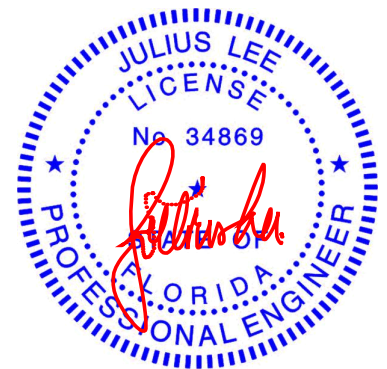
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/30, 2-3=-239/181, 3-4=-239/161,
4-5=0/30
BOT CHORD 2-6=-10/149, 4-6=-26/125
WEBS 3-6=-327/90

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-3-2 to 3-3-2,
Zone1 3-3-2 to 4-8-15, Zone3 4-8-15 to 9-2-12 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss
only. For studs exposed to wind (normal to the face),
see Standard Industry Gable End Details as applicable,
or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 45 lb uplift at joint
2, 45 lb uplift at joint 4, 45 lb uplift at joint 2 and 45 lb
uplift at joint 4.
- See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.
- Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

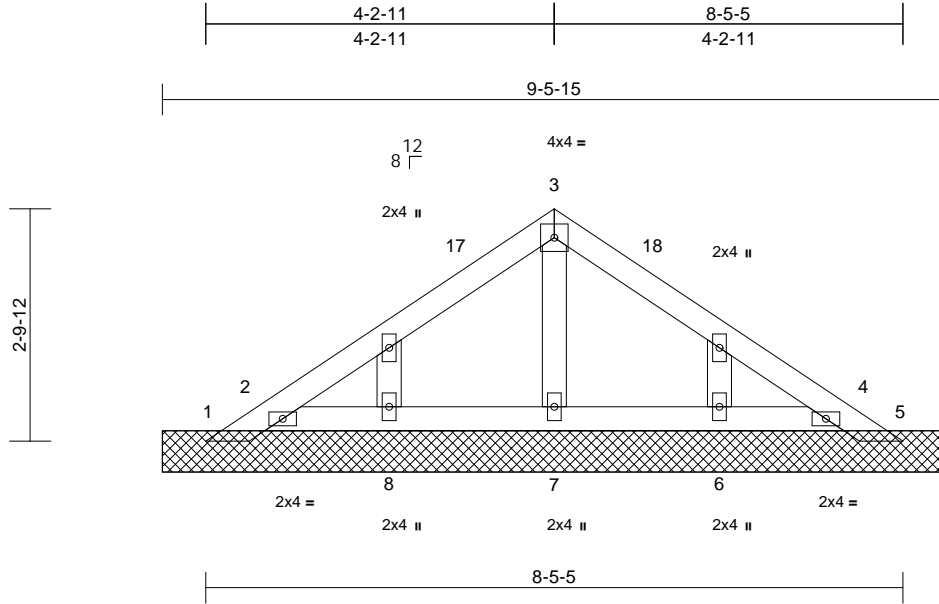
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

| | | | | | | |
|-----------------|---------------|-------------------------|----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss PB02 | Truss Type Piggyback | Qty 2 | Ply 1 | Allred Job Reference (optional) | T40878682 |
|-----------------|---------------|-------------------------|----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38
ID:zvBBUGK4O2Z1umeCE1JJOyoExd-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:27.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.11 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 31 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 1=9-5-15, 2=9-5-15, 4=9-5-15,
5=9-5-15, 6=9-5-15, 7=9-5-15,
8=9-5-15
Max Horiz 1=-49 (LC 10)
Max Uplift 1=-112 (LC 17), 2=-38 (LC 12),
4=-45 (LC 12), 5=-87 (LC 18), 6=-2
(LC 12), 8=-2 (LC 12)
Max Grav 1=32 (LC 9), 2=308 (LC 17), 4=295
(LC 1), 5=32 (LC 12), 6=99 (LC
18), 7=76 (LC 3), 8=100 (LC 17)

FORCES

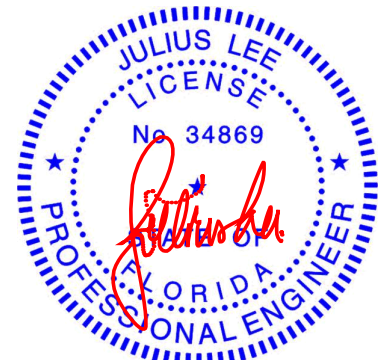
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-49/111, 2-3=-193/99, 3-4=-194/90,
4-5=-55/68
BOT CHORD 2-8=-10/110, 7-8=0/110, 6-7=0/110,
4-6=-10/110

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-9-7 to 3-9-7,
Zone1 3-9-7 to 4-8-15, Zone3 4-8-15 to 8-8-8 zone;
cantilever left and right exposed ; end vertical left and
right exposed;C-C for members and forces & MWFRS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 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 38 lb uplift at joint 2, 45 lb uplift at joint 4, 112 lb uplift at joint 1, 87 lb uplift at joint 5, 2 lb uplift at joint 8, 2 lb uplift at joint 6, 38 lb uplift at joint 2 and 45 lb uplift at joint 4.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

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

MiTek®

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

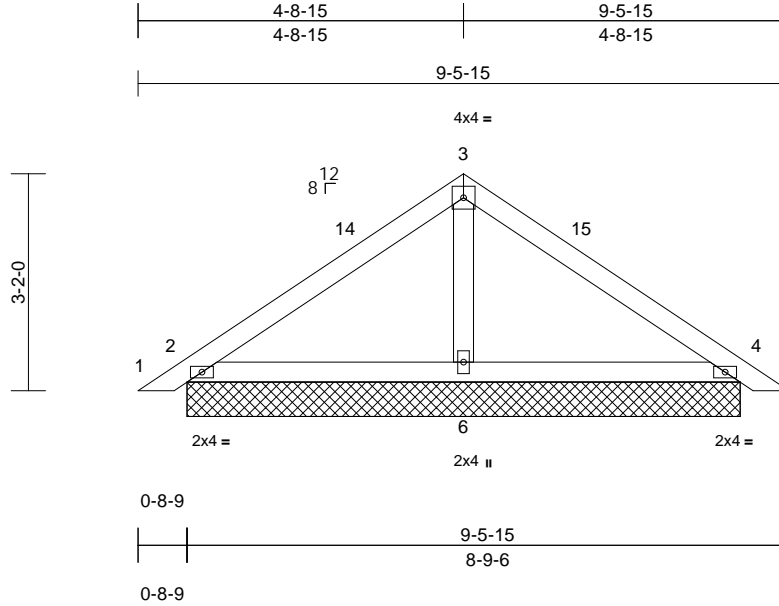
| | | | | | | |
|-----------------|---------------|-------------------------|-----------|----------|------------------------------------|-----------|
| Job 0825-019 | Truss PB03 | Truss Type Piggyback | Qty 12 | Ply 1 | Allred Job Reference (optional) | T40878683 |
|-----------------|---------------|-------------------------|-----------|----------|------------------------------------|-----------|

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Fri Apr 17 13:59:38

Page: 1

ID:CEdb9ZRkGphmTDzNDdisAlyoExU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCdoi7J4zJC7f



Scale = 1:33.6

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.25 | TC | 0.14 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.17 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.03 | Horz(CT) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2023/TPI2014 | Matrix-AS | | | | | | | Weight: 33 lb | FT = 20% |

LUMBER

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

BRACING

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

REACTIONS

(size) 2=8-0-13, 4=8-0-13, 6=8-0-13
Max Horiz 2=55 (LC 11)
Max Uplift 2=-22 (LC 12), 4=-22 (LC 12)
Max Grav 2=194 (LC 1), 4=194 (LC 1), 6=311 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-106/94, 3-4=-106/83, 4-5=0/15

BOT CHORD 2-6=-4/63, 4-6=-12/63

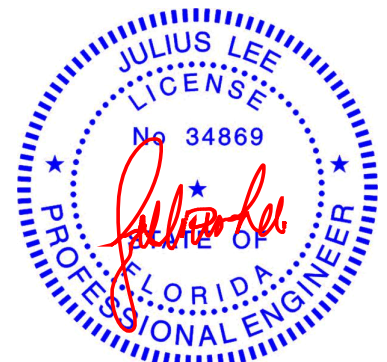
WEBS 3-6=-175/60

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-3-2 to 3-3-2, Zone1 3-3-2 to 4-8-15, Zone3 4-8-15 to 9-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 2, 22 lb uplift at joint 4, 22 lb uplift at joint 2 and 22 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

April 20,2026

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

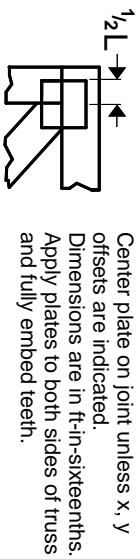
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

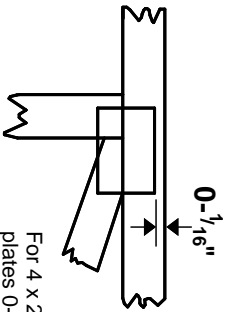
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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 MITtek software or upon request.

PLATE SIZE

4 X 4

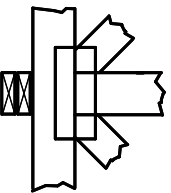
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

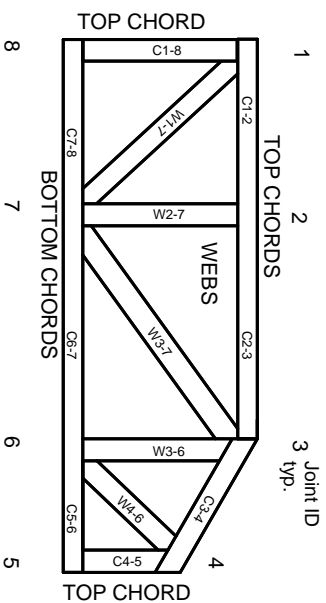


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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-1-1988, 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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

© 2023 MITtek® All Rights Reserved

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

MITek®

MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023