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

RE: megan_holloway - Megan Holloway

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

**Site Information:**

Customer Info: Lee holloway Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Alachua County 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

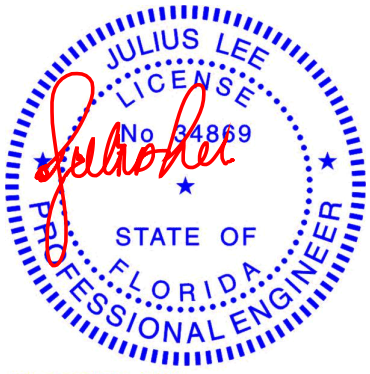
This package includes 28 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|---|---|---|---|---|---|---|---|
| 1 | T29069789 | G01 | 10/26/22 | 23 | T29069811 | T13 | 10/26/22 |
| 2 | T29069790 | G02 | 10/26/22 | 24 | T29069812 | T14 | 10/26/22 |
| 3 | T29069791 | H01 | 10/26/22 | 25 | T29069813 | T15 | 10/26/22 |
| 4 | T29069792 | J01 | 10/26/22 | 26 | T29069814 | T16 | 10/26/22 |
| 5 | T29069793 | J02 | 10/26/22 | 27 | T29069815 | T17 | 10/26/22 |
| 6 | T29069794 | PB01 | 10/26/22 | 28 | T29069816 | T18 | 10/26/22 |
| 7 | T29069795 | PB1A | 10/26/22 | | | | |
| 8 | T29069796 | PB02 | 10/26/22 | | | | |
| 9 | T29069797 | T01 | 10/26/22 | | | | |
| 10 | T29069798 | T01GE | 10/26/22 | | | | |
| 11 | T29069799 | T02 | 10/26/22 | | | | |
| 12 | T29069800 | T02GE | 10/26/22 | | | | |
| 13 | T29069801 | T03 | 10/26/22 | | | | |
| 14 | T29069802 | T04 | 10/26/22 | | | | |
| 15 | T29069803 | T05 | 10/26/22 | | | | |
| 16 | T29069804 | T06 | 10/26/22 | | | | |
| 17 | T29069805 | T07 | 10/26/22 | | | | |
| 18 | T29069806 | T08 | 10/26/22 | | | | |
| 19 | T29069807 | T09 | 10/26/22 | | | | |
| 20 | T29069808 | T10 | 10/26/22 | | | | |
| 21 | T29069809 | T11 | 10/26/22 | | | | |
| 22 | T29069810 | T12 | 10/26/22 | | | | |

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, 2023.

**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:

October 27,2022

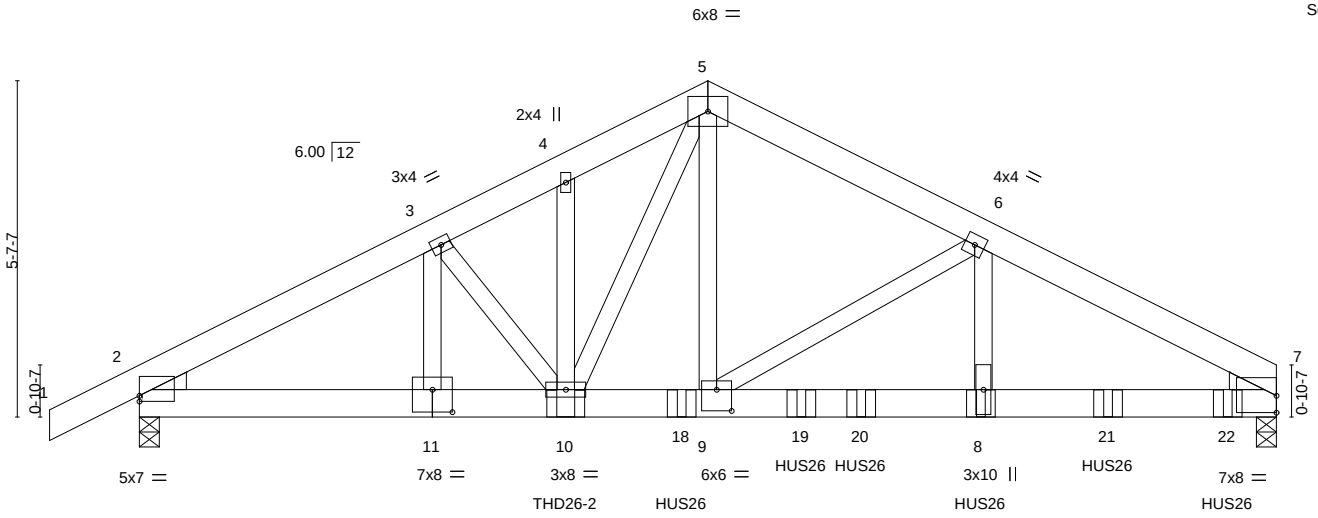
Lee, Julius

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | G01 | COMMON GIRDER | 1 | 3 | T29069789 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:45 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-fQG9vGhgzZ0hY9O5S088fpZ4jXjAZDBaJoW7klyPZ0u

-1-6-0 | 4-10-12 | 9-6-0 | 14-1-4 | 19-0-0
1-6-0 | 4-10-12 | 4-7-4 | 4-7-4 | 4-10-12

Scale = 1:38.5




4-10-12 | 9-6-0 | 14-1-4 | 19-0-0
4-10-12 | 4-7-4 | 4-7-4 | 4-10-12

Plate Offsets (X,Y)-- [2:0-0-0,0-1-2], [7:0-0-0,0-3-6], [9:0-3-0,0-4-4], [11:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.66 | Vert(LL) | -0.09 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.86 | Vert(CT) | -0.18 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.38 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 419 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-11: 2x6 SP SS
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

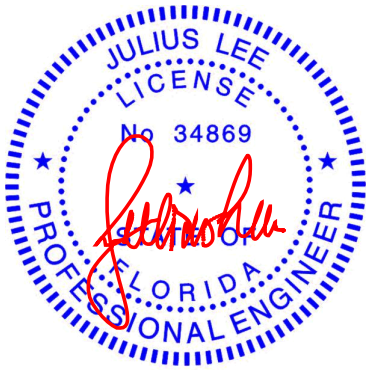
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 7=0-4-0, 2=0-4-0
Max Horz 2=88(LC 7)
Max Grav 7=8235(LC 2), 2=4924(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8917/0, 3-4=-8931/0, 4-5=-8998/0, 5-6=-7950/0, 6-7=-11182/0
BOT CHORD 2-11=0/7712, 10-11=0/7712, 9-10=0/7126, 8-9=0/9814, 7-8=0/9814
WEBS 5-9=0/4992, 6-9=-3517/0, 6-8=0/3574, 4-10=-292/14, 5-10=-25/2307, 3-10=-94/721

**NOTES-**
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 6-8 2x4 - 1 row at 0-7-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
9) 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 9-0-12 from the left end to 14-0-12 to connect truss(es) to front face of bottom chord.
10) 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 16-2-4 from the left end to 18-2-4 to connect truss(es) to front face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

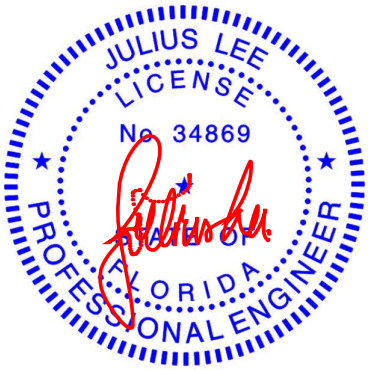
October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-60, 5-7=-60, 12-15=-20
   Concentrated Loads (lb)
   Vert: 8=-1305(F) 10=-2799(F) 18=-1275(F) 19=-1340(F) 20=-1174(F) 21=-1728(F) 22=-1730(F)





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

Date:

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| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | G02 | COMMON GIRDER | 1 | 2 | T29069790 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:46 2022 Page 1
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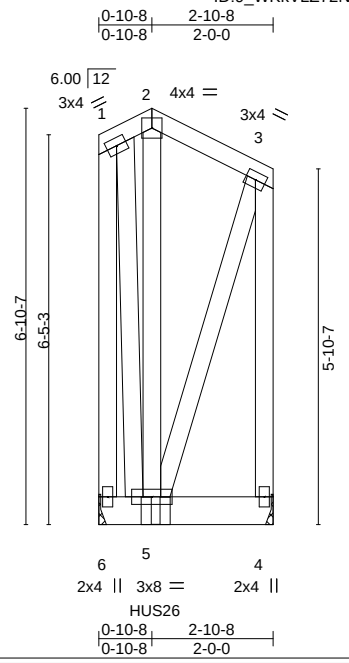



Scale = 1:38.0

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.00 | 5 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.15 | Vert(CT) | -0.00 | 5 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.05 | Horz(CT) | -0.00 | 4 | n/a | n/a | | |
| BCDL | 15.0 | Code | FBC2020/TPI2014 | Matrix-MP | | | | | | | Weight: 109 lb | FT = 20% |

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

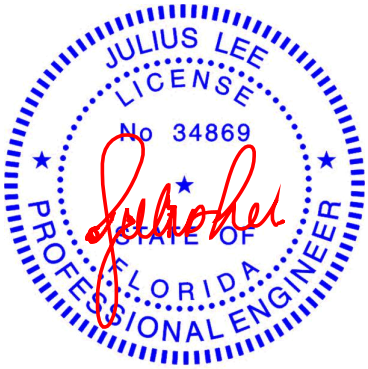
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 6=Mechanical, 4=Mechanical
Max Horz 6=-179(LC 6)
Max Uplift 6=-249(LC 4), 4=-182(LC 5)
Max Grav 6=954(LC 1), 4=536(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-559/177, 3-4=-391/203
WEBS 3-5=-228/333, 1-5=-190/523

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 6 and 182 lb uplift at joint 4.
10) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 0-11-4 from the left end to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-30

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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Continued on page 2



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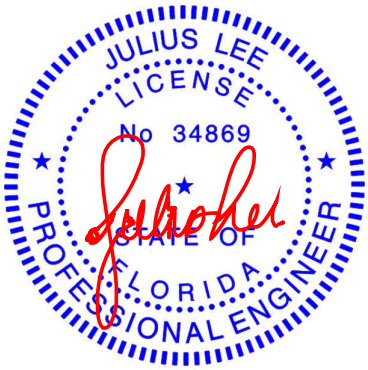
Chesterfield, MO 63017

**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 5=-1168(B)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | H01 | Half Hip Girder | 1 | 1 | T29069791 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:48 2022 Page 1
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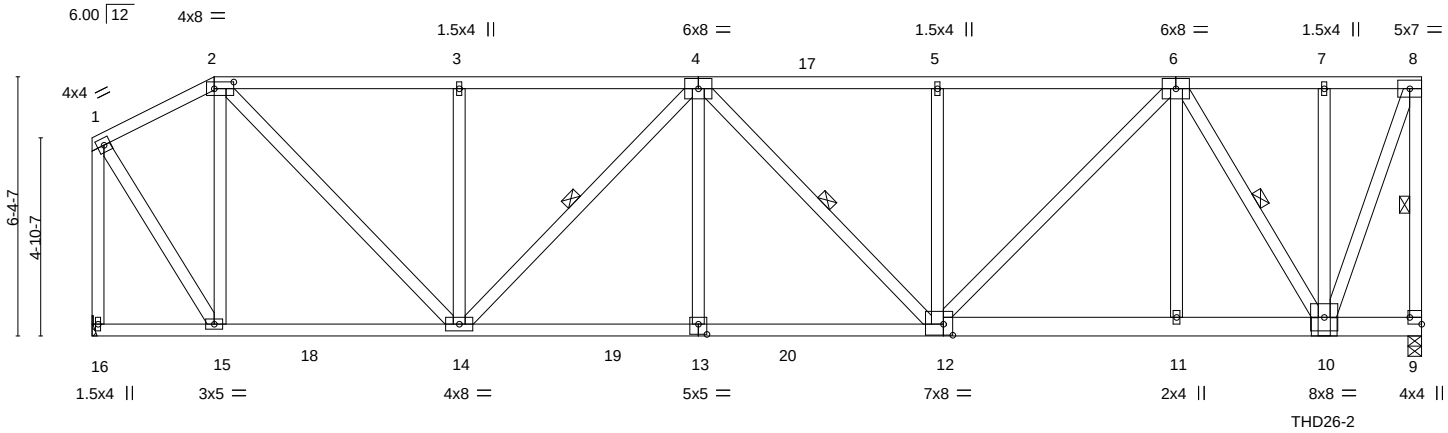
| 3-0-0 | 9-0-4 | 14-10-12 | 20-9-4 | 26-7-12 | 32-8-0 |
|---|---|---|---|---|---|
| 3-0-0 | 6-0-4 | 5-10-8 | 5-10-8 | 5-10-8 | 6-0-4 |

Scale = 1:56.6




| 3-0-0 | 9-0-4 | 14-10-12 | 20-9-4 | 26-7-12 | 32-8-0 |
|---|---|---|---|---|---|
| 3-0-0 | 6-0-4 | 5-10-8 | 5-10-8 | 5-10-8 | 6-0-4 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.58 | Vert(LL) | -0.18 | 12-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.96 | Vert(CT) | -0.34 | 12-13 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.57 | Horz(CT) | 0.06 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 248 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-12: 2x6 SP No.2
WEBS 2x4 SP No.2

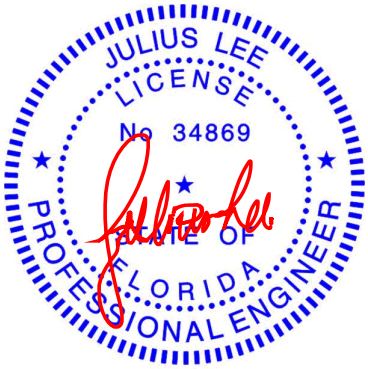
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 8-9, 4-14, 4-12, 6-10

**REACTIONS.** (size) 9=0-4-0, 16=Mechanical
Max Horz 16=172(LC 5)
Max Uplift 9=-246(LC 8), 16=-17(LC 8)
Max Grav 9=2229(LC 29), 16=1515(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-844/70, 2-3=-1704/90, 3-4=-1704/90, 4-5=-2027/133, 5-6=-2018/131, 6-7=-824/148, 7-8=-824/148, 8-9=-2111/265, 1-16=-1490/33
BOT CHORD 14-15=-78/741, 13-14=-18/2110, 12-13=-18/2110, 11-12=-91/1455, 10-11=-90/1454
WEBS 2-15=-883/44, 2-14=-27/1442, 3-14=-428/86, 4-14=-577/23, 4-13=0/280, 5-12=-437/88, 6-12=-97/942, 6-11=0/280, 1-15=0/1282, 6-10=-1304/20, 8-10=-256/2208

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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 246 lb uplift at joint 9 and 17 lb uplift at joint 16.
9) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 30-3-5 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Date:

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Continued on page 2



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Chesterfield, MO 63017

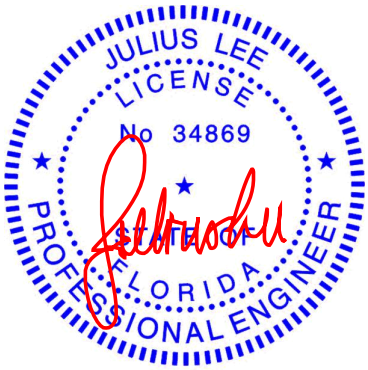
**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-8=-60, 9-16=-20

Concentrated Loads (lb)

Vert: 10=-934(B)

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Date:

October 27,2022




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | J01 | Jack-Open | 1 | 1 | T29069792 |
| | | | | | Job Reference (optional) |

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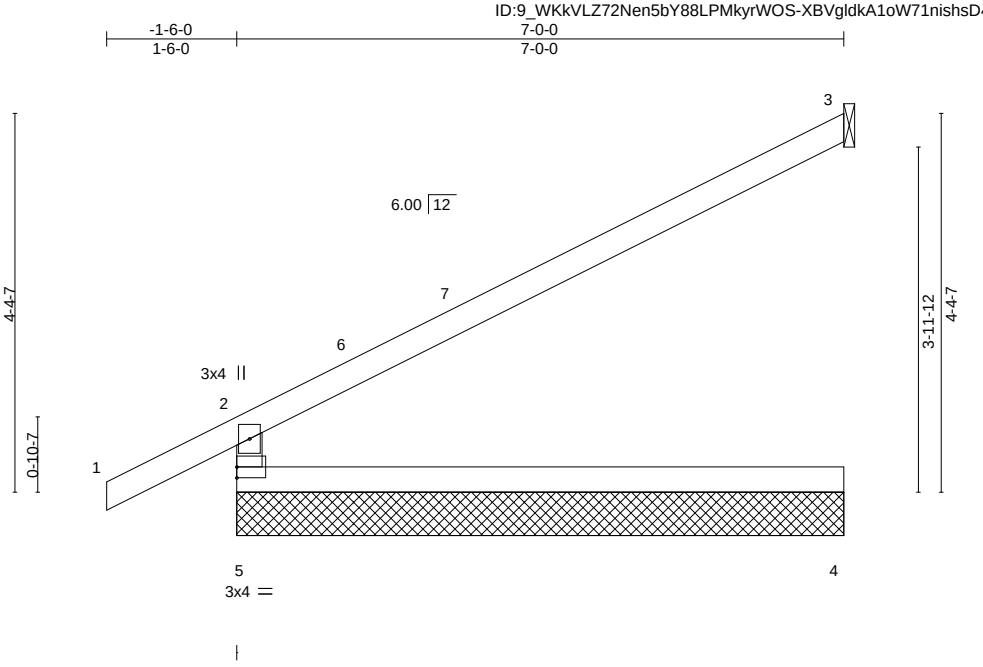


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.59 | Vert(LL) | -0.09 | 4-5 | >860 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.52 | Vert(CT) | -0.21 | 4-5 | >383 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-AS | | | | | | | Weight: 25 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.** All bearings 7-0-0 except (jt=length) 3=Mechanical, 3=Mechanical.
(lb) - Max Horz 5=124(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5, 3
Max Grav All reactions 250 lb or less at joint(s) 3, 3, 4 except 5=383(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-321/167

**NOTES-**
1) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
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.


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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | J02 | Jack-Open | 16 | 1 | T29069793 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:50 2022 Page 1
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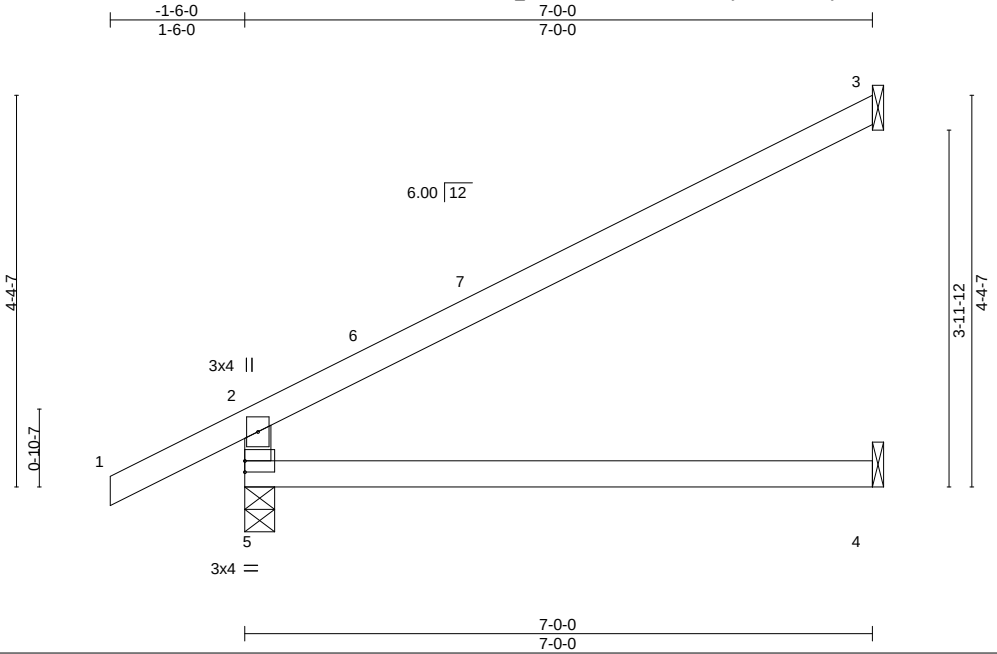



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.59 | Vert(LL) | -0.09 | 4-5 | >890 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.51 | Vert(CT) | -0.21 | 4-5 | >396 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.06 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-AS | | | | | | | Weight: 25 lb | FT = 20% |

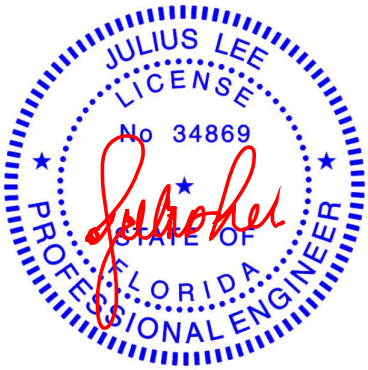
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

**REACTIONS.** (size) 5=0-4-0, 3=Mechanical, 4=Mechanical
Max Horz 5=124(LC 12)
Max Uplift 5=-16(LC 12), 3=-52(LC 12)
Max Grav 5=382(LC 1), 3=185(LC 1), 4=125(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-322/167

**NOTES-**
1) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | PB01 | Piggyback | 23 | 1 | T29069794 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:51 2022 Page 1
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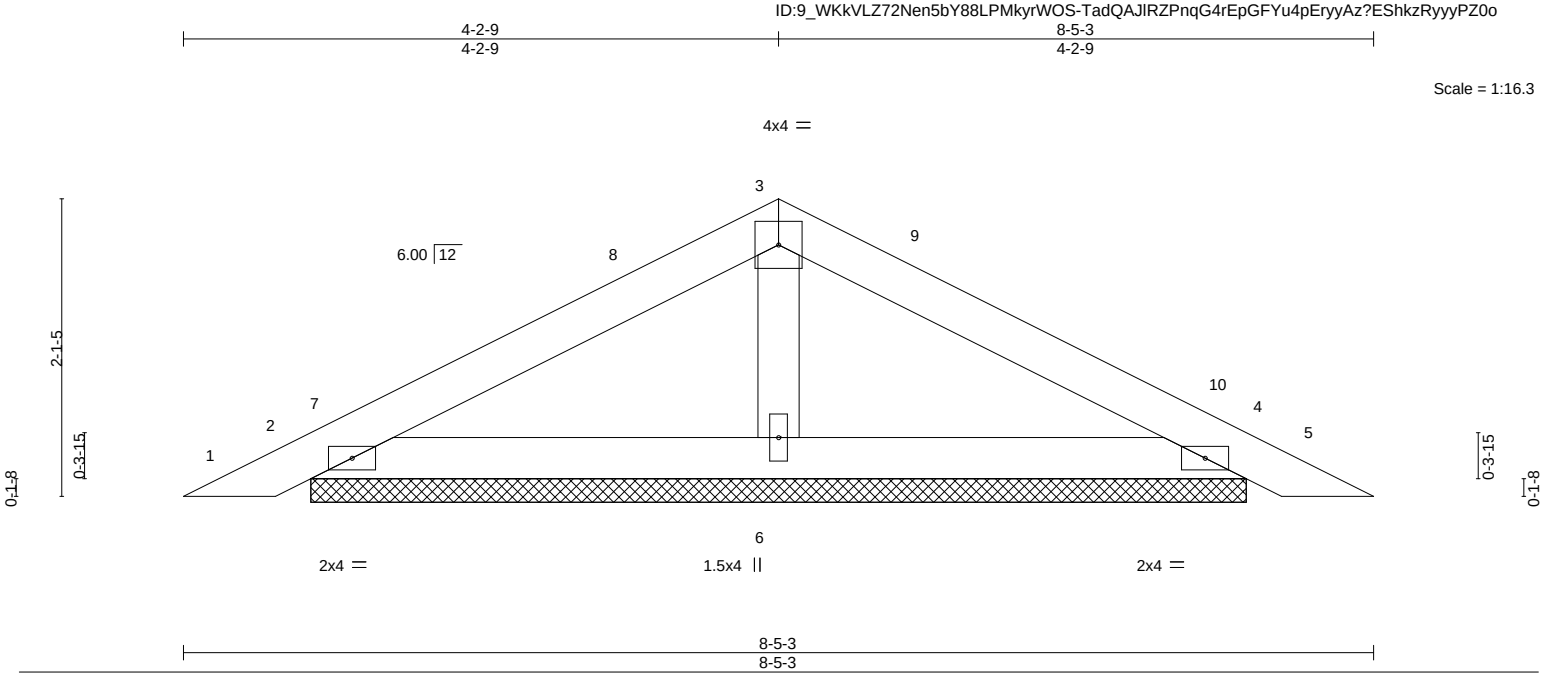



| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.18 | Vert(LL) | 0.01 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.12 | Vert(CT) | 0.01 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 26 lb | FT = 20% |

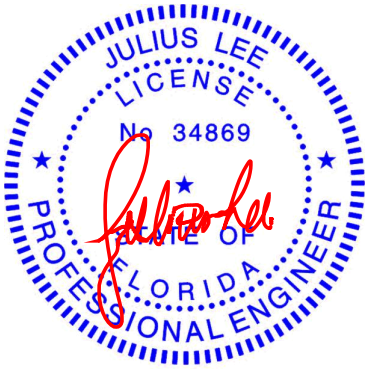
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** (size) 2=6-7-8, 4=6-7-8, 6=6-7-8
Max Horz 2=32(LC 11)
Max Uplift 2=-28(LC 12), 4=-28(LC 12)
Max Grav 2=171(LC 1), 4=171(LC 1), 6=258(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 4-2-9, Exterior(2R) 4-2-9 to 7-2-9, Interior(1) 7-2-9 to 8-1-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | PB1A | GABLE | 1 | 1 | T29069795 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:52 2022 Page 1
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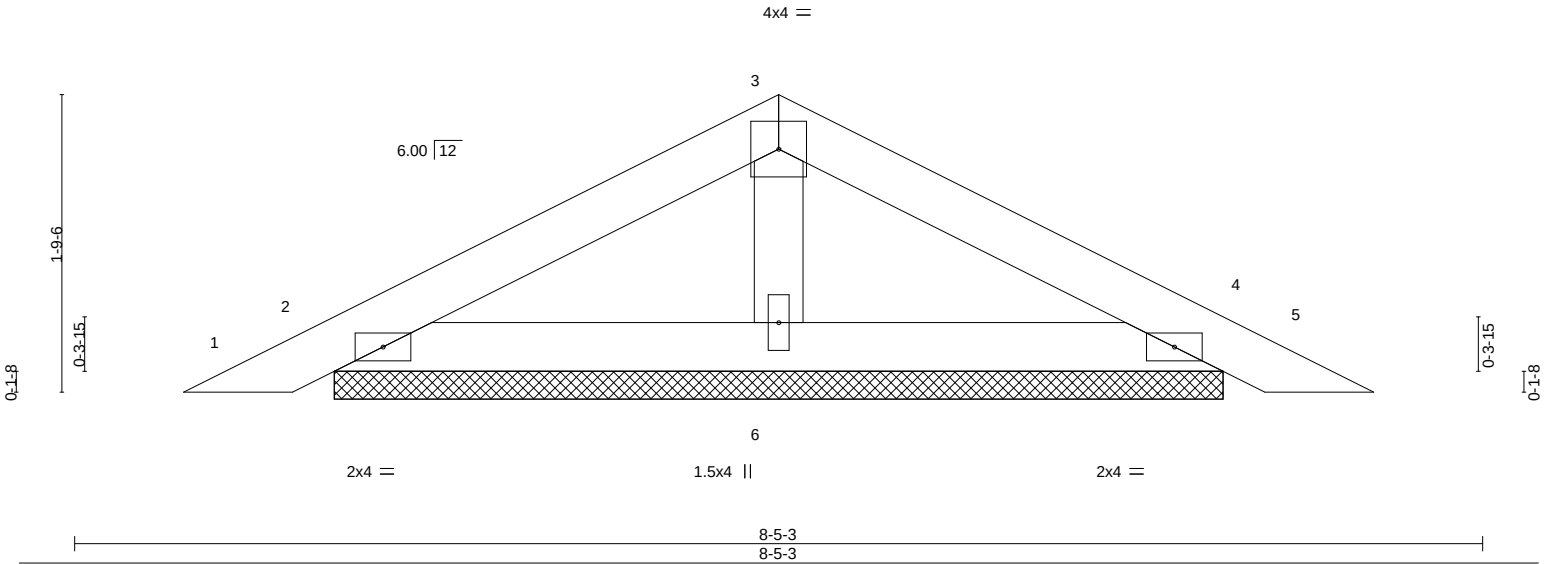
4-2-9 | 8-5-3
4-2-9 | 4-2-9

Scale = 1:13.8




8-5-3
8-5-3

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.11 | Vert(LL) | 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 21 lb | FT = 20% |

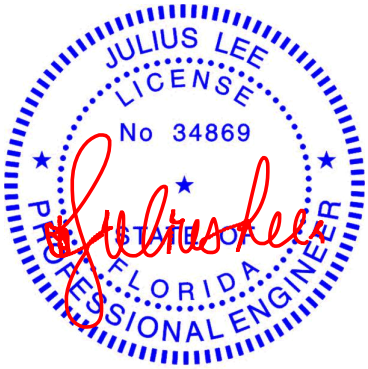
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** (size) 2=5-3-14, 4=5-3-14, 6=5-3-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=145(LC 1), 4=145(LC 1), 6=205(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | PB02 | GABLE | 1 | 1 | T29069796 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:52 2022 Page 1
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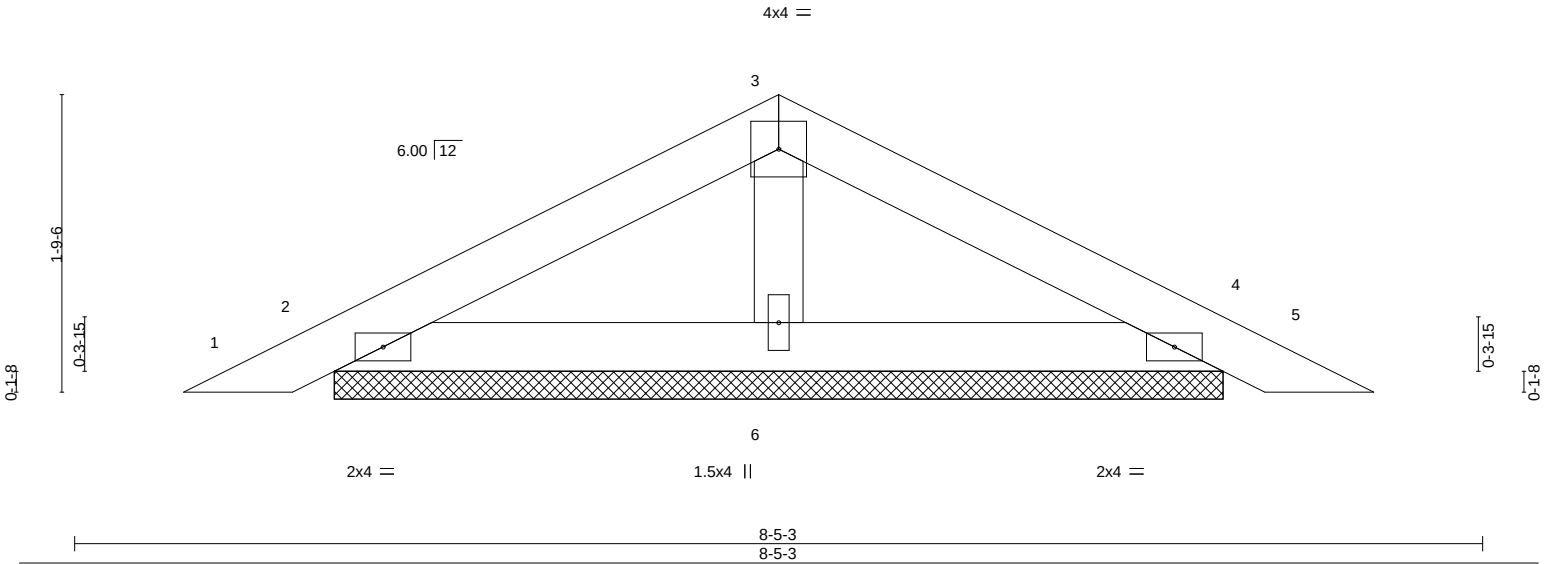
4-2-9 | 8-5-3
4-2-9 | 4-2-9

Scale = 1:13.8




8-5-3
8-5-3

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | 0.00 | 5 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.08 | Vert(CT) | 0.00 | 5 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.02 | Horz(CT) | 0.00 | 4 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-P | | | | | | | Weight: 21 lb | FT = 20% |

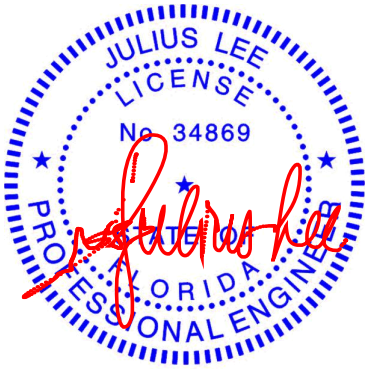
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** (size) 2=5-3-14, 4=5-3-14, 6=5-3-14
Max Horz 2=-27(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=145(LC 1), 4=145(LC 1), 6=205(LC 1)

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T01 | Common | 7 | 1 | T29069797 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:54 2022 Page 1
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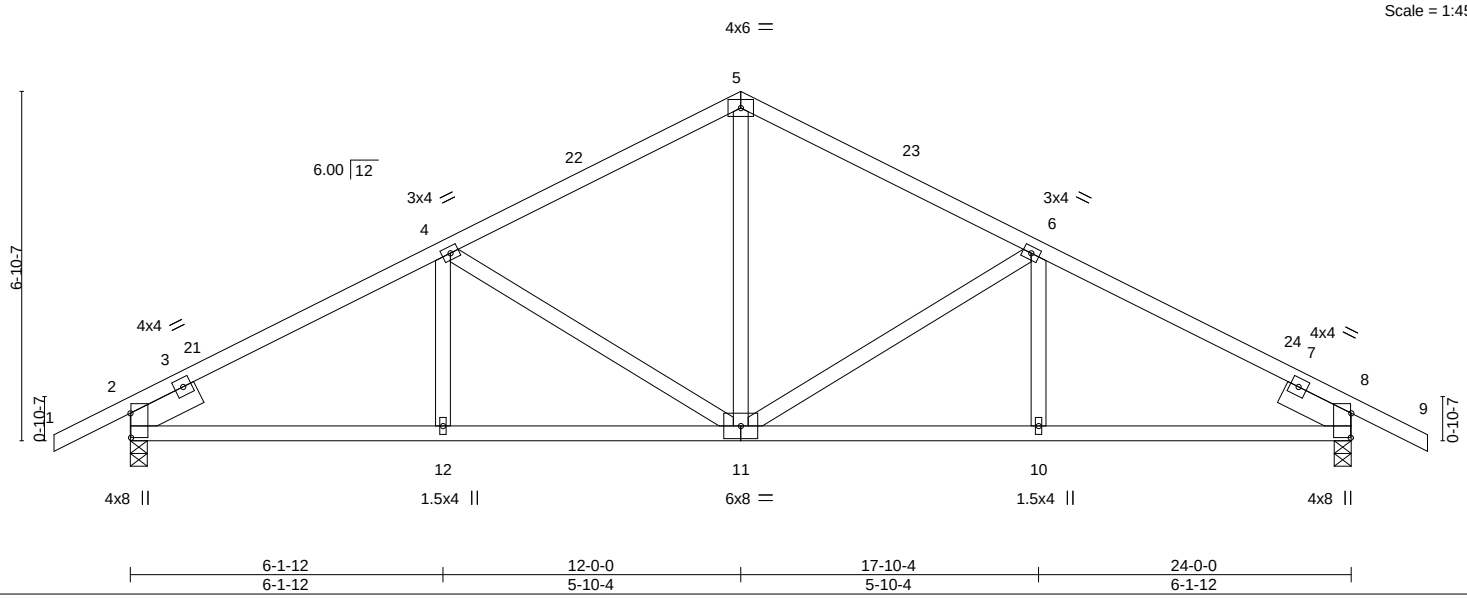
| -1-6-0 | 6-1-12 | 12-0-0 | 17-10-4 | 24-0-0 | 25-6-0 |
|---|---|---|---|---|---|
| 1-6-0 | 6-1-12 | 5-10-4 | 5-10-4 | 6-1-12 | 1-6-0 |

Scale = 1:45.3




| 6-1-12 | 12-0-0 | 17-10-4 | 24-0-0 |
|---|---|---|---|
| 6-1-12 | 5-10-4 | 5-10-4 | 6-1-12 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.64 | Vert(LL) | -0.08 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.61 | Vert(CT) | -0.20 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.34 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 127 lb | FT = 20% |

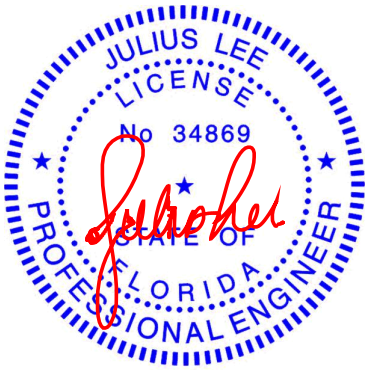
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

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

**REACTIONS.** (size) 2=0-4-0, 8=0-4-0
Max Horz 2=111(LC 11)
Max Uplift 2=-37(LC 12), 8=-37(LC 12)
Max Grav 2=1050(LC 1), 8=1050(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1444/112, 4-5=-1070/149, 5-6=-1070/149, 6-8=-1444/112
BOT CHORD 2-12=-14/1215, 11-12=-14/1215, 10-11=-25/1215, 8-10=-25/1215
WEBS 5-11=-12/521, 6-11=-423/72, 4-11=-423/72

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 25-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.




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

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T01GE | Common Supported Gable | 1 | 1 | T29069798 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:55 2022 Page 1
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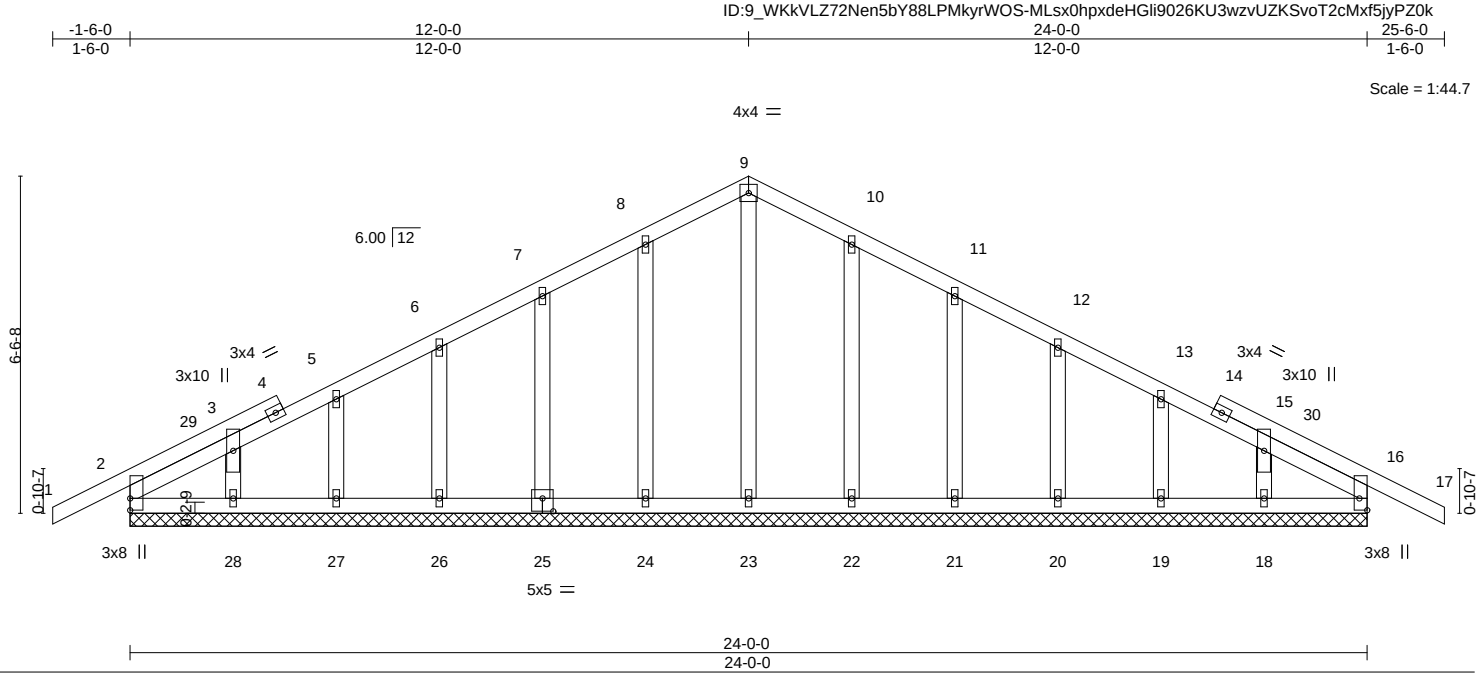



Plate Offsets (X,Y)-- [16:Edge,0-1-13], [25:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 17 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 17 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.07 | Horz(CT) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 144 lb | FT = 20% |

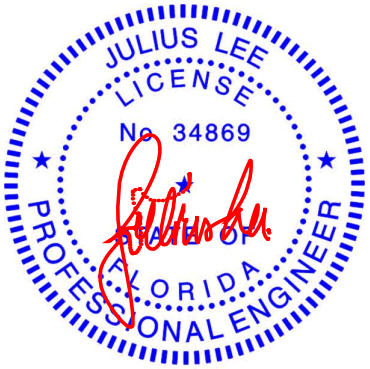
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-25: 2x4 SP 2400F 2.0E
OTHERS 2x4 SP No.2

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

**REACTIONS.** All bearings 24-0-0.
(lb) - Max Horz 2=106(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 25-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Solid blocking is required on both sides of the truss at joint(s), 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18.




Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



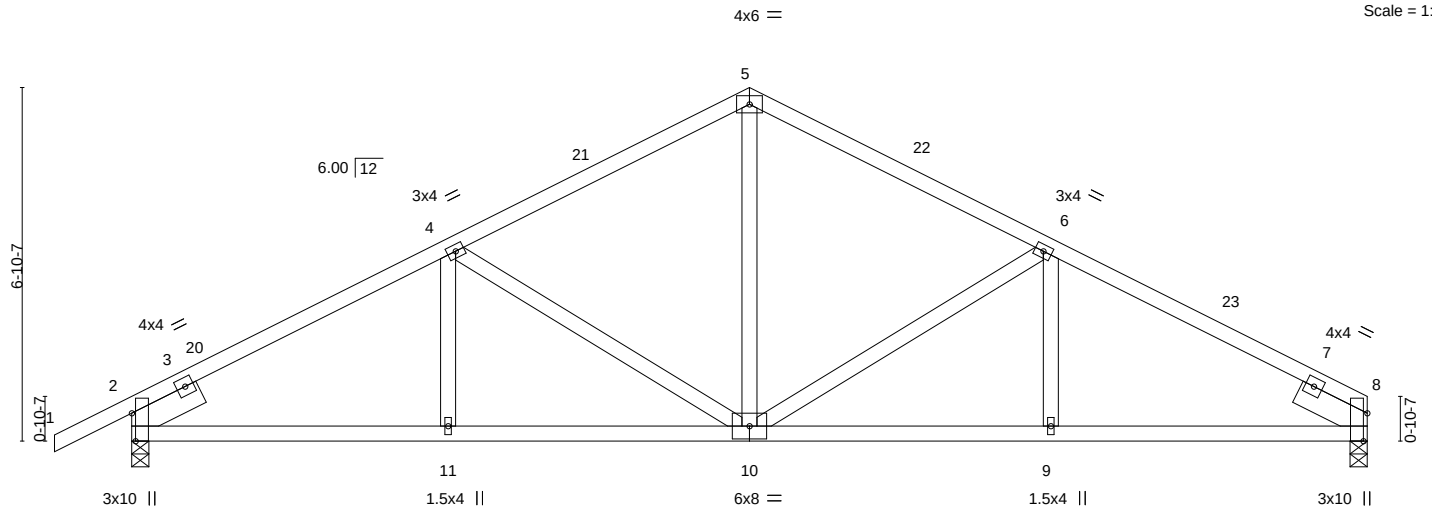
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T02 | Common | 3 | 1 | T29069799 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:56 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-qXQJD1pZOyP7MrkCbqrjb7WzMyXjeBBBr?hCdAyPZ0j

-1-6-0 | 6-1-12 | 12-0-0 | 17-10-4 | 24-0-0
1-6-0 | 6-1-12 | 5-10-4 | 5-10-4 | 6-1-12

Scale = 1:44.8




6-1-12 | 12-0-0 | 17-10-4 | 24-0-0
6-1-12 | 5-10-4 | 5-10-4 | 6-1-12

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.64 | Vert(LL) | -0.08 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.61 | Vert(CT) | -0.20 | 10-11 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.36 | Horz(CT) | 0.06 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 124 lb | FT = 20% |

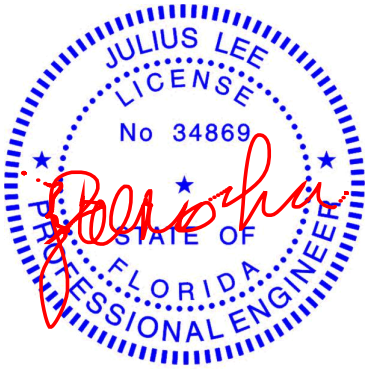
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

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

**REACTIONS.** (size) 8=0-4-0, 2=0-4-0
Max Horz 2=109(LC 11)
Max Uplift 2=-38(LC 12)
Max Grav 8=957(LC 1), 2=1053(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1449/116, 4-5=-1075/150, 5-6=-1076/153, 6-8=-1461/124
BOT CHORD 2-11=-53/1220, 10-11=-53/1220, 9-10=-49/1233, 8-9=-49/1233
WEBS 5-10=-17/524, 6-10=-439/74, 4-10=-423/72

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2R) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 24-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.




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

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T02GE | Common Supported Gable | 1 | 1 | T29069800 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:57 2022 Page 1
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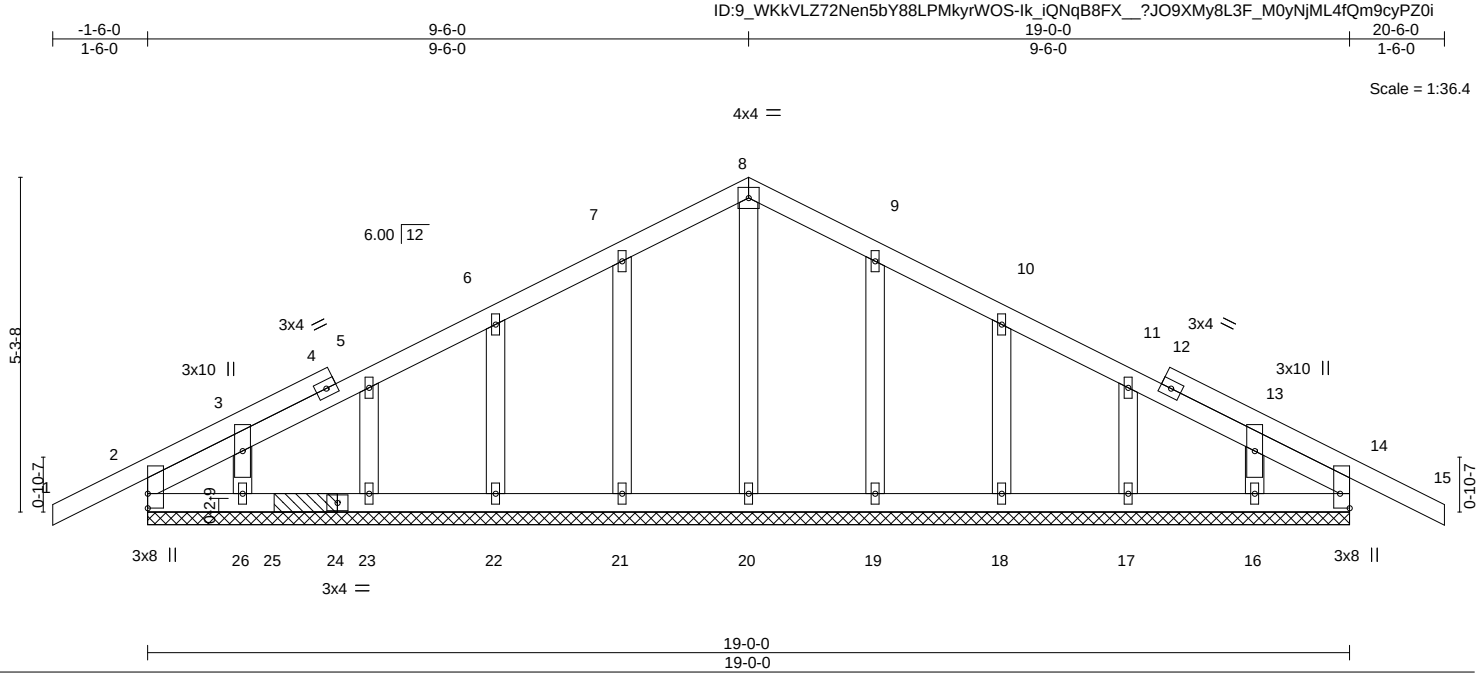



Plate Offsets (X,Y)-- [14:Edge,0-1-13]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.13 | Vert(LL) | -0.01 | 15 | n/r | 120 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.03 | Vert(CT) | -0.01 | 15 | n/r | 120 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.04 | Horz(CT) | 0.00 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-S | | | | | | | Weight: 110 lb | FT = 20% |

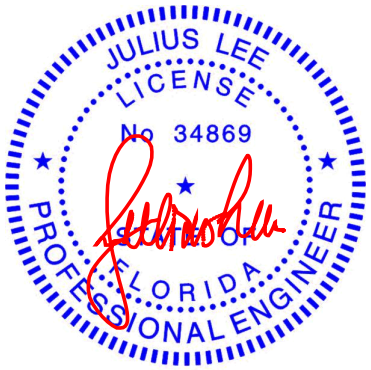
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP 2400F 2.0E *Except*
14-24: 2x4 SP No.2
OTHERS 2x4 SP No.2

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

**REACTIONS.** All bearings 19-0-0.
(lb) - Max Horz 2=85(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 26, 19, 18, 17, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 26, 19, 18, 17, 16

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 9-6-0, Corner(3R) 9-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 20-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Solid blocking is required on both sides of the truss at joint(s), 2.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 26, 19, 18, 17, 16.




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

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T03 | Common | 6 | 1 | T29069801 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:26:59 2022 Page 1
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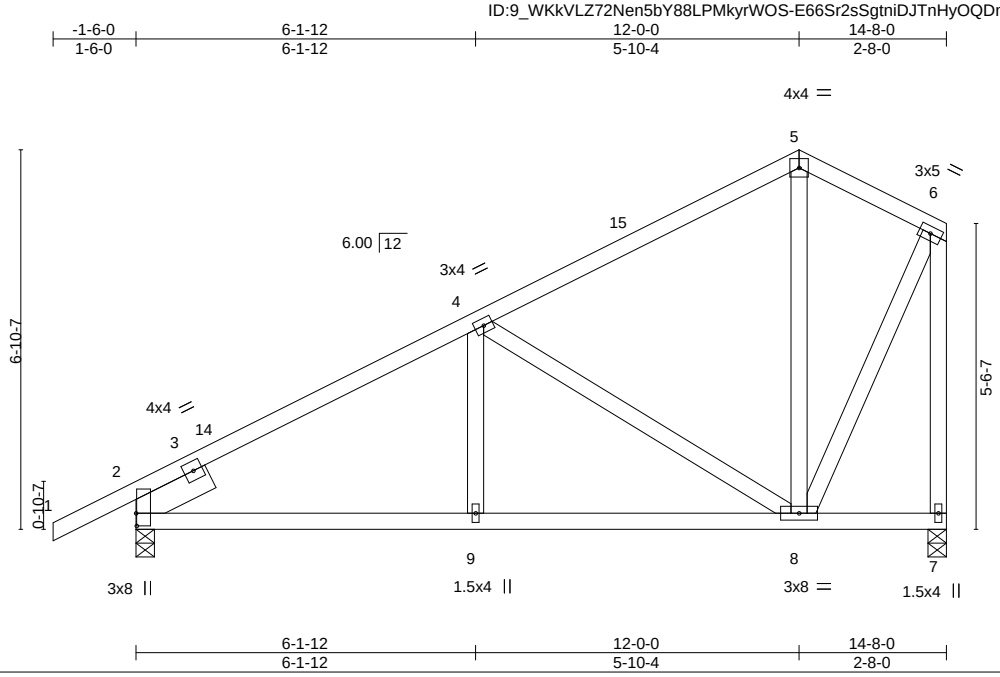



Plate Offsets (X,Y)-- [2:0-2-12,0-0-2]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.03 | 8-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.30 | Vert(CT) | -0.06 | 8-9 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | 0.01 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 92 lb | FT = 20% |

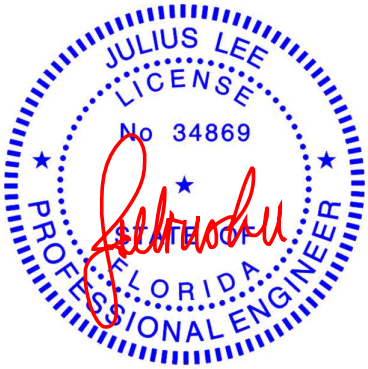
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-6-0

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

**REACTIONS.** (size) 2=0-4-0, 7=0-4-0
Max Horz 2=186(LC 11)
Max Uplift 2=-34(LC 12), 7=-2(LC 12)
Max Grav 2=675(LC 1), 7=576(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-750/118, 4-5=-312/114, 6-7=-567/147
BOT CHORD 2-9=-237/616, 8-9=-237/616
WEBS 4-8=-485/155, 6-8=-139/470

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-0-0, Exterior(2E) 12-0-0 to 14-6-4 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
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



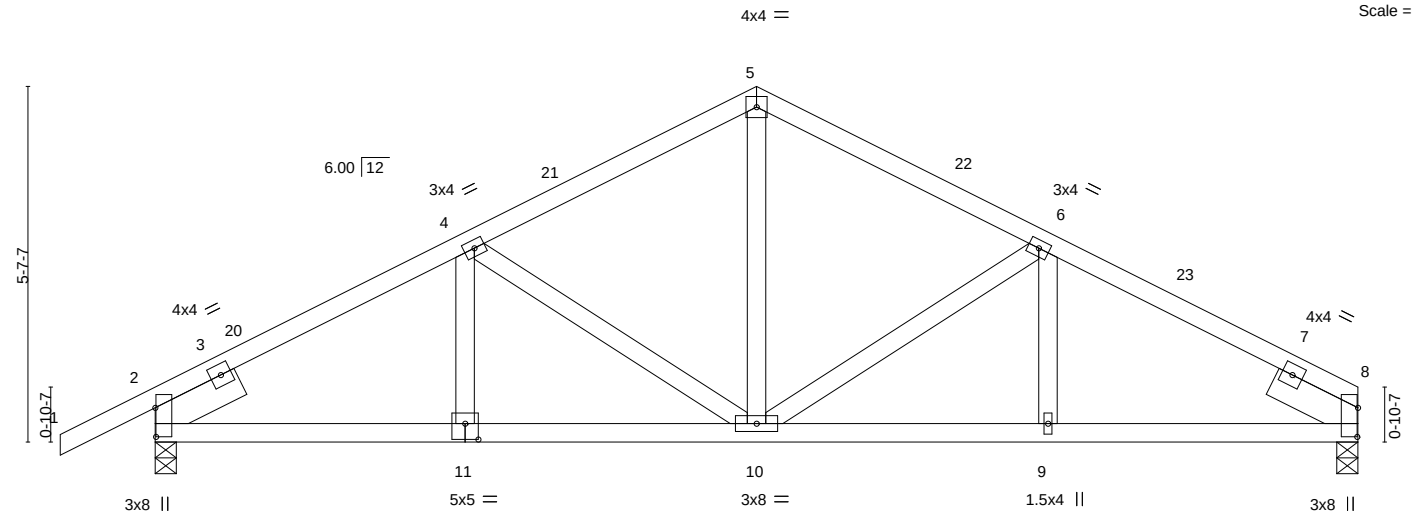
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T04 | Common | 5 | 1 | T29069802 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:00 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-iIgq3Os4RAvZrT2zqfvfmzhiWaw2a2MnmdfQmxyPZ0f

| -1-6-0 | 4-10-12 | 9-6-0 | 14-1-4 | 19-0-0 |
|---|---|---|---|---|
| 1-6-0 | 4-10-12 | 4-7-4 | 4-7-4 | 4-10-12 |

Scale = 1:36.4




| 4-10-12 | 9-6-0 | 14-1-4 | 19-0-0 |
|---|---|---|---|
| 4-10-12 | 4-7-4 | 4-7-4 | 4-10-12 |

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.44 | Vert(LL) | -0.04 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.46 | Vert(CT) | -0.09 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.03 | 8 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 101 lb | FT = 20% |

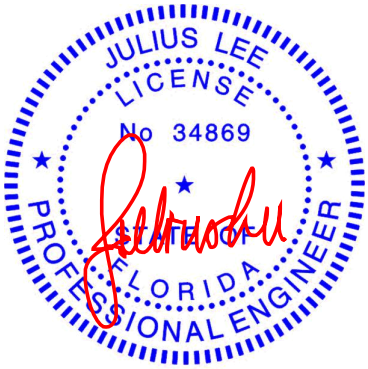
**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 1-6-0, Right 2x6 SP No.2 1-6-0

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

**REACTIONS.** (size) 8=0-4-0, 2=0-4-0
Max Horz 2=88(LC 11)
Max Uplift 2=-38(LC 12)
Max Grav 8=756(LC 1), 2=854(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1090/146, 4-5=-841/150, 5-6=-842/155, 6-8=-1095/147
BOT CHORD 2-11=-83/911, 10-11=-83/911, 9-10=-75/921, 8-9=-75/921
WEBS 5-10=-26/417, 6-10=-299/83, 4-10=-284/86

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-6-0, Exterior(2R) 9-6-0 to 12-6-0, Interior(1) 12-6-0 to 19-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.




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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

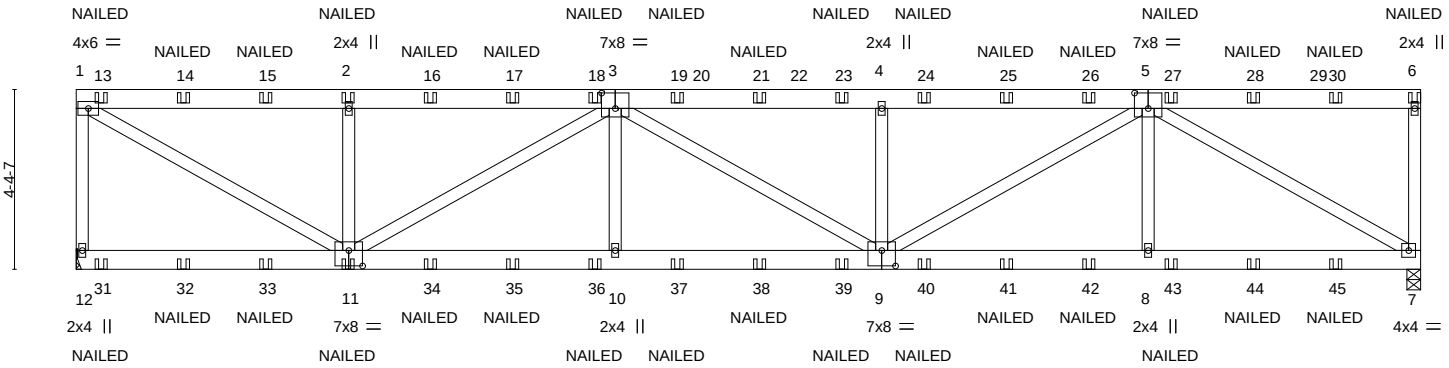
| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T05 | Flat Girder | 1 | 2 | T29069803 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:03 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-7tLzhQvyk5H7iwmYWoTMNcJEGnx8nEoDSbt4NGyPZ0c

| 6-7-7 | 13-1-3 | 19-6-14 | 26-0-9 | 32-8-0 |
|---|---|---|---|---|
| 6-7-7 | 6-5-11 | 6-5-11 | 6-5-11 | 6-7-7 |

THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

Scale = 1:56.0




| 6-7-7 | 13-1-3 | 19-6-14 | 26-0-9 | 32-8-0 |
|---|---|---|---|---|
| 6-7-7 | 6-5-11 | 6-5-11 | 6-5-11 | 6-7-7 |

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.13 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.56 | Vert(CT) | -0.27 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.88 | Horz(CT) | 0.06 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-MS | | | | | | | Weight: 472 lb | FT = 20% |

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

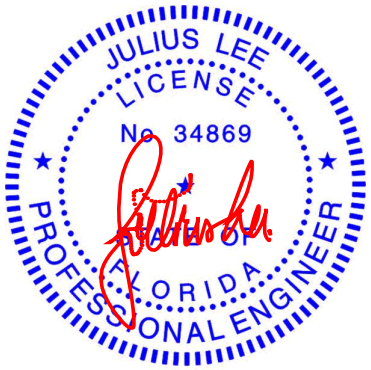
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 12=Mechanical, 7=0-4-0
Max Horz 12=-110(LC 19)
Max Uplift 12=-107(LC 8), 7=-145(LC 8)
Max Grav 12=2819(LC 1), 7=2826(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-2632/204, 1-2=-3781/216, 2-3=-3781/216, 3-4=-5596/288, 4-5=-5596/288, 6-7=-521/139
BOT CHORD 10-11=-142/5501, 9-10=-142/5501, 8-9=-106/3676, 7-8=-106/3676
WEBS 1-11=-208/4359, 2-11=-939/256, 3-11=-2009/0, 3-10=0/639, 4-9=-955/256, 5-9=-168/2243, 5-8=0/628, 5-7=-4228/117

**NOTES-**
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=107, 7=145.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

**LOAD CASE(S)** Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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Continued on page 2



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-60, 7-12=-20
   Concentrated Loads (lb)
   Vert: 6=-157(F) 11=-55(F) 2=-125(F) 13=-141(F) 14=-125(F) 15=-125(F) 16=-125(F) 17=-125(F) 18=-125(F) 19=-125(F) 21=-125(F) 23=-125(F) 24=-125(F) 25=-125(F) 26=-125(F) 27=-125(F) 28=-125(F) 30=-125(F) 31=-61(F) 32=-55(F) 33=-55(F) 34=-55(F) 35=-55(F) 36=-55(F) 37=-55(F) 38=-55(F) 39=-55(F) 40=-55(F) 41=-55(F) 42=-55(F) 43=-55(F) 44=-55(F) 45=-55(F)


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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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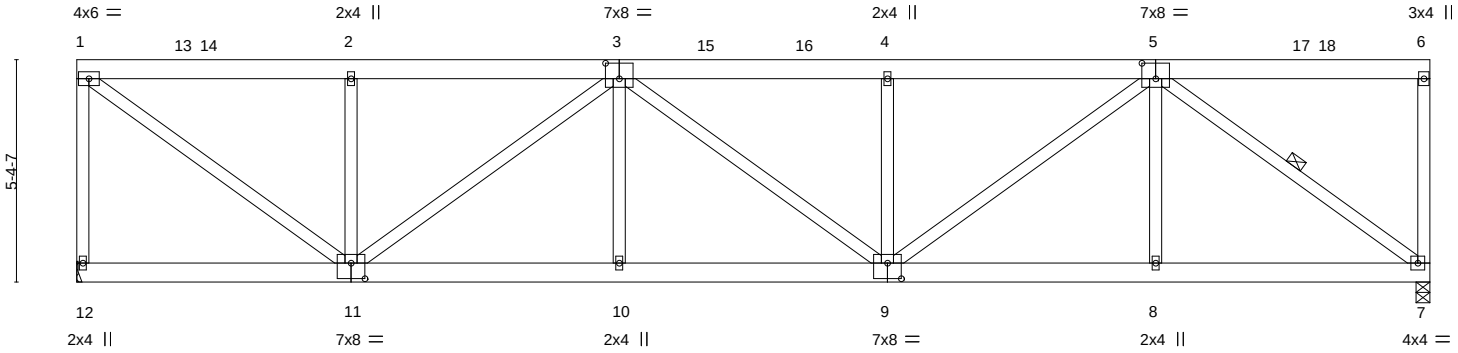
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T06 | Flat | 1 | 1 | T29069804 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:04 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-b4vLumwaVPP_K4Lk3V_bwprOxBKLWhqMhFddviyPZ0b

| 6-7-7 | 13-1-3 | 19-6-14 | 26-0-9 | 32-8-0 |
|---|---|---|---|---|
| 6-7-7 | 6-5-11 | 6-5-11 | 6-5-11 | 6-7-7 |

Scale = 1:55.6




| 6-7-7 | 13-1-3 | 19-6-14 | 26-0-9 | 32-8-0 |
|---|---|---|---|---|
| 6-7-7 | 6-5-11 | 6-5-11 | 6-5-11 | 6-7-7 |

Plate Offsets (X,Y)-- [3:0-4-0,0-4-8], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.41 | Vert(LL) | -0.08 | 9-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.37 | Vert(CT) | -0.18 | 9-10 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.89 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 249 lb | FT = 20% |

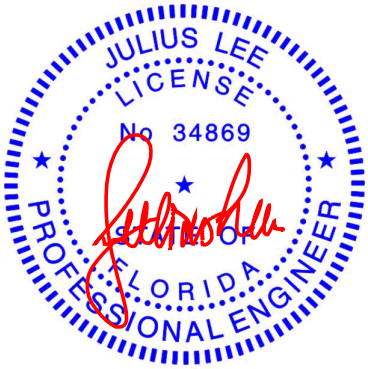
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-7

**REACTIONS.** (size) 12=Mechanical, 7=0-4-0
Max Horz 12=-138(LC 8)
Max Grav 12=1295(LC 1), 7=1295(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1223/350, 1-2=-1420/381, 2-3=-1420/381, 3-4=-2104/518, 4-5=-2104/518
BOT CHORD 10-11=-542/2064, 9-10=-542/2064, 8-9=-349/1380, 7-8=-349/1380
WEBS 1-11=-448/1756, 2-11=-461/242, 3-11=-808/163, 3-10=0/315, 4-9=-471/239, 5-9=-273/909, 5-8=0/307, 5-7=-1702/386

**NOTES-**
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 29-6-4, Corner(3) 29-6-4 to 32-6-4 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
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.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T07 | PIGGYBACK BASE | 1 | 1 | T29069805 |
| | | | | | Job Reference (optional) |

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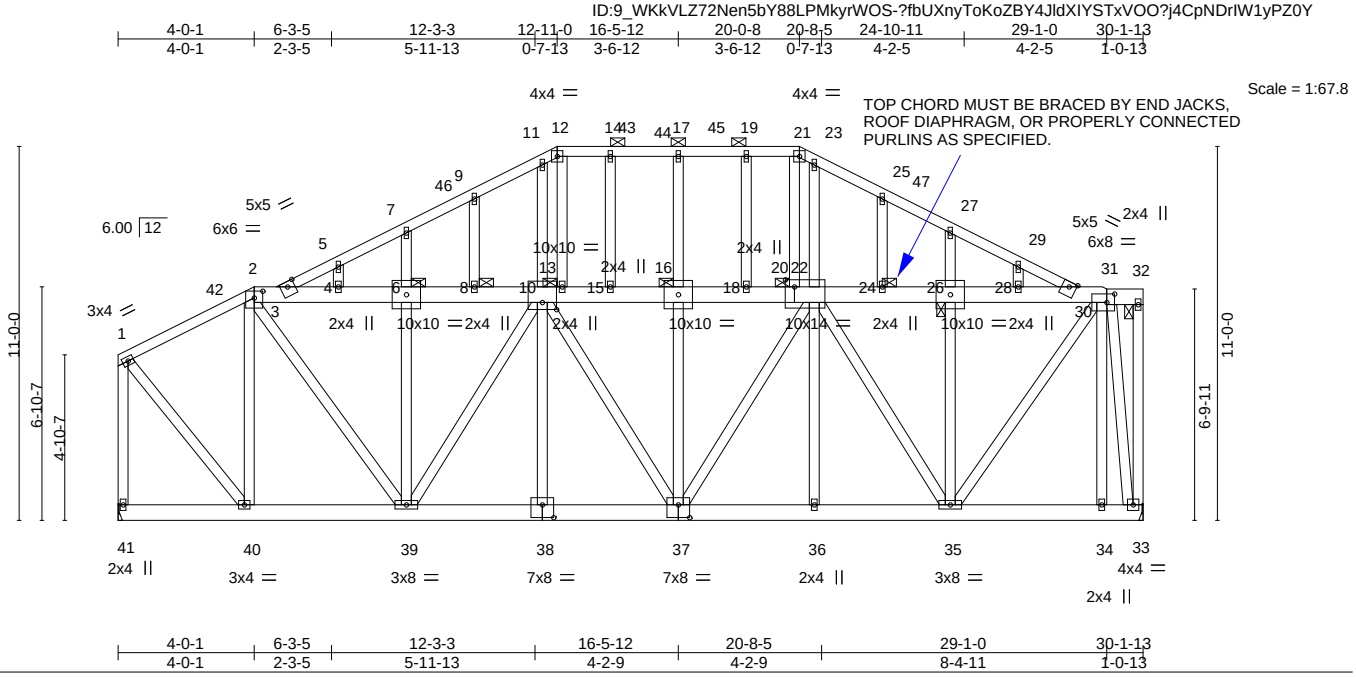



Plate Offsets (X,Y)-- [2:0-3-0,0-2-7], [10:0-5-0,0-2-8], [20:0-3-4,0-2-8], [31:0-2-12,0-3-0], [37:0-4-0,0-4-8], [38:0-4-0,0-4-8]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | -0.03 | 38 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.18 | Vert(CT) | -0.06 | 37-38 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.72 | Horz(CT) | 0.02 | 33 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 388 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2 *Except* 31-32,2-20,20-31: 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

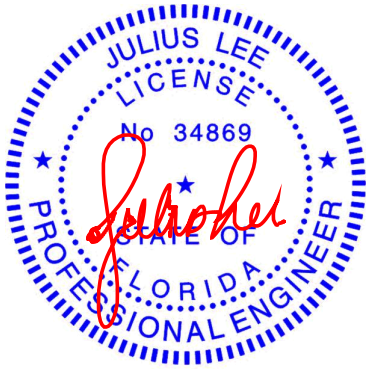
**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 12-21, 2-32.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 32, 13, 20, 24, 26, 8, 6, 16

**REACTIONS.** (size) 33=Mechanical, 41=Mechanical
Max Horz 41=256(LC 11)
Max Uplift 33=-60(LC 12), 41=-47(LC 12)
Max Grav 33=1194(LC 1), 41=1194(LC 1)

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.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-740/109, 12-14=-528/137, 14-17=-528/137, 17-19=-528/137, 19-21=-528/137, 2-3=-945/136, 3-4=-484/145, 4-6=-484/145, 6-8=-484/145, 8-10=-484/145, 10-13=-511/153, 13-15=-506/152, 15-16=-506/152, 16-18=-506/152, 18-20=-506/152, 20-22=-509/152, 22-24=-257/153, 24-26=-257/153, 26-28=-257/153, 28-30=-257/153, 30-31=-721/151, 1-41=-1158/128, 3-5=-612/35, 5-7=-596/65, 7-9=-619/102, 9-11=-614/133, 11-12=-566/146, 21-23=-546/133, 23-25=-617/125, 25-27=-623/94, 27-29=-597/55, 29-30=-614/25
BOT CHORD 39-40=-214/711, 38-39=-216/1043, 37-38=-216/1043, 36-37=-149/882, 35-36=-149/882
WEBS 2-40=-663/135, 1-40=-94/966, 26-35=-371/137, 6-39=-342/127, 2-39=-89/604, 22-37=-67/373, 22-35=-349/30, 31-35=-124/934, 31-33=-1072/115

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-15, Interior(1) 3-1-15 to 12-11-0, Exterior(2R) 12-11-0 to 15-11-3, Interior(1) 15-11-3 to 30-0-1, Exterior(2R) 20-0-8 to 23-0-11, Interior(1) 23-0-11 to 28-3-10 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) All plates are 1.5x4 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 41.
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.

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Date:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T08 | PIGGYBACK BASE GIRDE | 1 | 1 | T29069806 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:08 2022 Page 1
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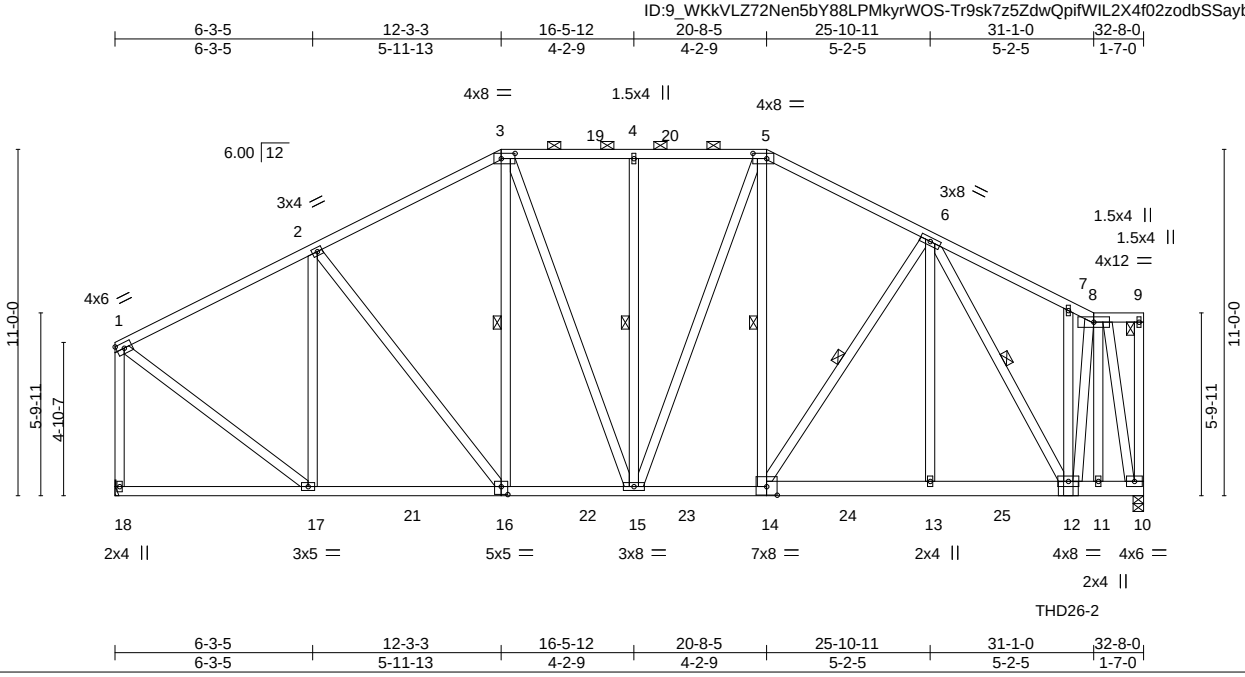



Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [14:0-4-0,0-3-4], [16:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- 2-0-0 | | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.53 | Vert(LL) | -0.09 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.60 | Vert(CT) | -0.16 | 16-17 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | NO | WB | 0.97 | Horz(CT) | 0.04 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-MS | | | | | | | Weight: 310 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-14: 2x6 SP No.2
WEBS 2x4 SP No.2

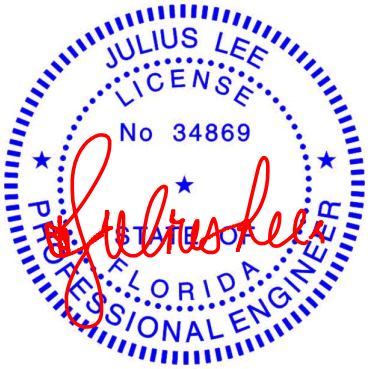
**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-10 max.): 3-5, 8-9.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-16, 4-15, 5-14, 6-14, 6-12

**REACTIONS.** (size) 10=0-4-0, 18=Mechanical
Max Horz 18=246(LC 7)
Max Uplift 10=-190(LC 8), 18=-13(LC 8)
Max Grav 10=1952(LC 30), 18=1531(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1259/83, 2-3=-1339/137, 3-4=-1210/143, 4-5=-1210/143, 5-6=-1349/151, 6-7=-893/182, 7-8=-840/133, 1-18=-1446/45
BOT CHORD 16-17=-46/1164, 15-16=-9/1194, 14-15=0/1169, 13-14=-2/1164, 12-13=-2/1161, 11-12=-51/519, 10-11=-51/520
WEBS 2-17=-523/70, 3-15=-29/334, 4-15=-276/49, 5-15=-48/312, 6-13=0/328, 8-10=-1925/194, 1-17=0/1285, 6-12=-1039/64, 8-12=-121/1455

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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 100 lb uplift at joint(s) 18 except (jt=lb) 10=190.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 30-3-5 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
11) Fill all nail holes where hanger is in contact with lumber.
12) 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

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Continued on page 2



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

**LOAD CASE(S)** Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 5-8=-60, 8-9=-60, 10-18=-20
   Concentrated Loads (lb)
   Vert: 12=-426(F)


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

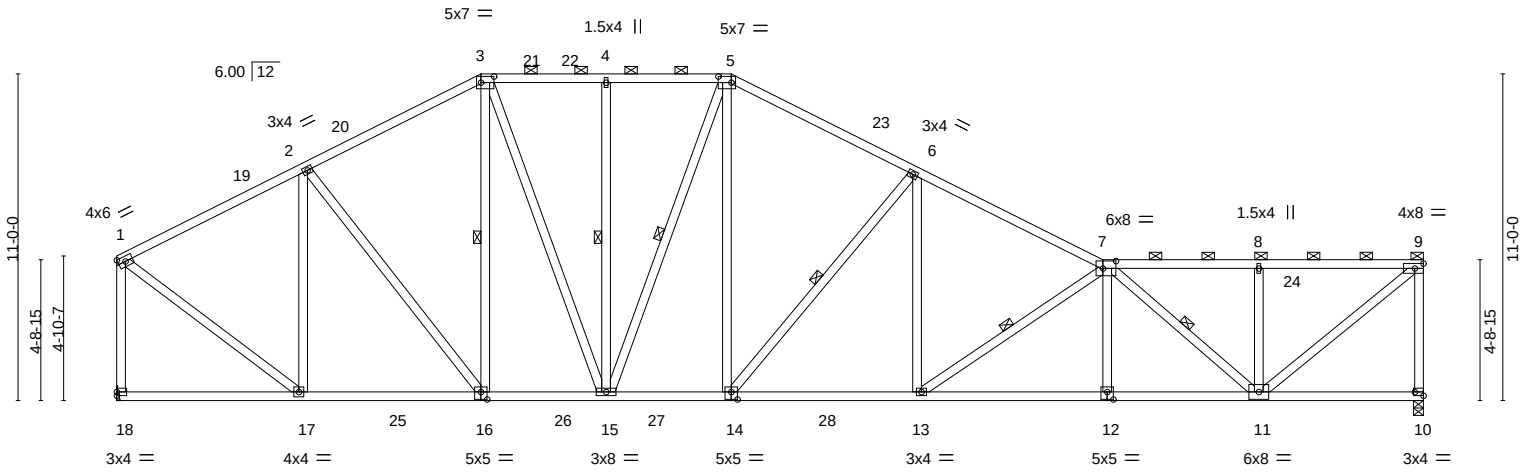
October 27,2022

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T09 | PIGGYBACK BASE | 1 | 1 | T29069807 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:10 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-QEGc9p_L5FA82?ouQm50A45KlcFAwPgF3B4y7MyPZ0V

| 6-3-5 | 12-3-3 | 16-5-12 | 20-8-5 | 26-11-7 | 33-2-8 | 38-5-8 | 44-0-0 |
|---|---|---|---|---|---|---|---|
| 6-3-5 | 5-11-13 | 4-2-9 | 4-2-9 | 6-3-1 | 6-3-1 | 5-3-0 | 5-6-8 |

Scale = 1:77.6




| 6-3-5 | 12-3-3 | 16-5-12 | 20-8-5 | 26-11-7 | 33-2-8 | 38-5-8 | 44-0-0 |
|---|---|---|---|---|---|---|---|
| 6-3-5 | 5-11-13 | 4-2-9 | 4-2-9 | 6-3-1 | 6-3-1 | 5-3-0 | 5-6-8 |

Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [5:0-5-4,0-2-8], [7:0-5-4,0-3-0], [10:Edge,0-1-8], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.71 | Vert(LL) | -0.26 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.85 | Vert(CT) | -0.46 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.13 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 331 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-9-14 max.): 3-5, 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 3-16, 4-15, 5-15, 6-14, 7-13, 7-11 |

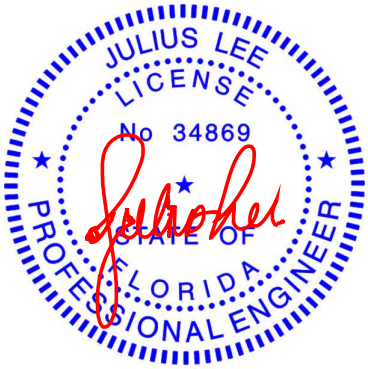
**REACTIONS.** (size) 10=0-4-0, 18=Mechanical
Max Horz 18=-243(LC 10)
Max Grav 10=1958(LC 18), 18=1998(LC 17)

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

| | |
|---|---|
| TOP CHORD | 1-2=-1674/139, 2-3=-1927/204, 3-4=-1938/215, 4-5=-1938/215, 5-6=-2391/214, 6-7=-3213/171, 7-8=-2178/105, 8-9=-2178/105, 9-10=-1872/105, 1-18=-1910/130 |
| BOT CHORD | 16-17=-152/1539, 15-16=-120/1725, 14-15=-116/2062, 13-14=-150/2780, 12-13=-179/3573, 11-12=-177/3578 |
| WEBS | 2-17=-775/138, 2-16=0/436, 3-16=-251/40, 3-15=-40/829, 4-15=-257/66, 5-15=-381/38, 5-14=-25/1116, 6-14=-1228/93, 6-13=0/907, 7-13=-1024/65, 7-11=-1931/88, 8-11=-347/87, 9-11=-101/2739, 1-17=-78/1744 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-3-3, Exterior(2R) 12-3-3 to 16-5-12, Interior(1) 16-5-12 to 20-8-5, Exterior(2R) 20-8-5 to 25-1-2, Interior(1) 25-1-2 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) 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.
9) 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:

October 27,2022



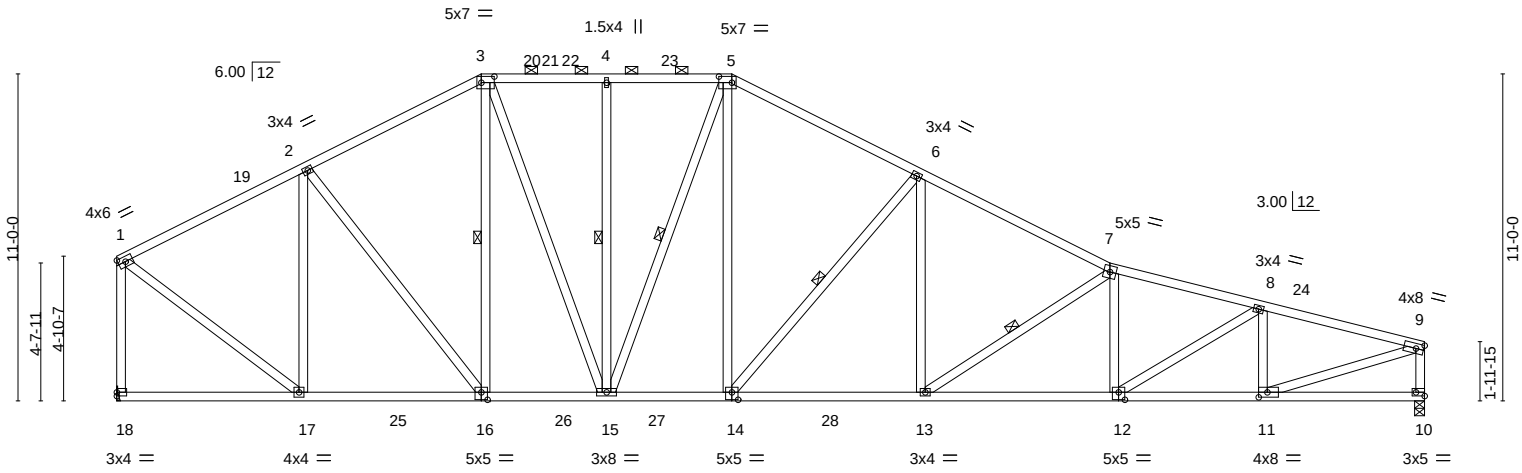

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T10 | PIGGYBACK BASE | 1 | 1 | T29069808 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:11 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-uQq_M9?_rYI?g9N4_TcFileVT?dCfswOIrpVfoyPZ0U

| 6-3-5 | 12-3-3 | 16-5-12 | 20-8-5 | 27-0-10 | 33-5-0 | 38-6-12 | 44-0-0 |
|---|---|---|---|---|---|---|---|
| 6-3-5 | 5-11-13 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Scale = 1:77.5




| 6-3-5 | 12-3-3 | 16-5-12 | 20-8-5 | 27-0-10 | 33-5-0 | 38-6-12 | 44-0-0 |
|---|---|---|---|---|---|---|---|
| 6-3-5 | 5-11-13 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Plate Offsets (X,Y)-- [3:0-5-4,0-2-8], [5:0-5-4,0-2-8], [10:Edge,0-1-8], [11:0-3-8,0-2-0], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.71 | Vert(LL) | -0.27 | 13-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.74 | Vert(CT) | -0.48 | 13-14 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.80 | Horz(CT) | 0.12 | 10 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 323 lb | FT = 20% |

**LUMBER-**

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

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-15 max.): 3-5. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 3-16, 4-15, 5-15, 6-14, 7-13 |

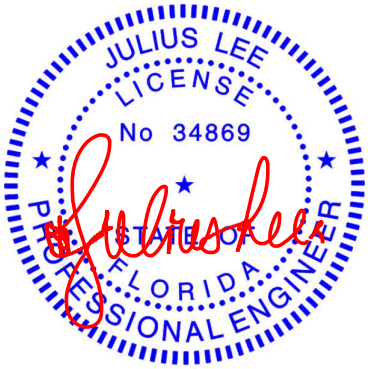
**REACTIONS.** (size) 18=Mechanical, 10=0-4-0
Max Horz 18=-242(LC 10)
Max Grav 18=1992(LC 17), 10=1975(LC 18)

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

| | |
|---|---|
| TOP CHORD | 1-2=-1669/243, 2-3=-1920/339, 3-4=-1937/358, 4-5=-1937/358, 5-6=-2392/375, 6-7=-3231/367, 7-8=-3812/379, 8-9=-3207/288, 1-18=-1904/235, 9-10=-1878/199 |
| BOT CHORD | 16-17=-117/1533, 15-16=-93/1718, 14-15=-116/2050, 13-14=-212/2792, 12-13=-327/3650, 11-12=-273/3049 |
| WEBS | 2-17=-774/197, 2-16=-11/436, 3-16=-251/54, 3-15=-92/828, 4-15=-256/91, 5-15=-383/63, 5-14=-91/1112, 6-14=-1233/181, 6-13=0/908, 7-13=-1039/139, 8-12=-58/692, 8-11=-782/157, 1-17=-174/1743, 9-11=-261/3105 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 12-3-3, Exterior(2R) 12-3-3 to 18-5-13, Interior(1) 18-5-13 to 20-8-5, Exterior(2R) 20-8-5 to 27-0-10, Interior(1) 27-0-10 to 43-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) 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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 27,2022



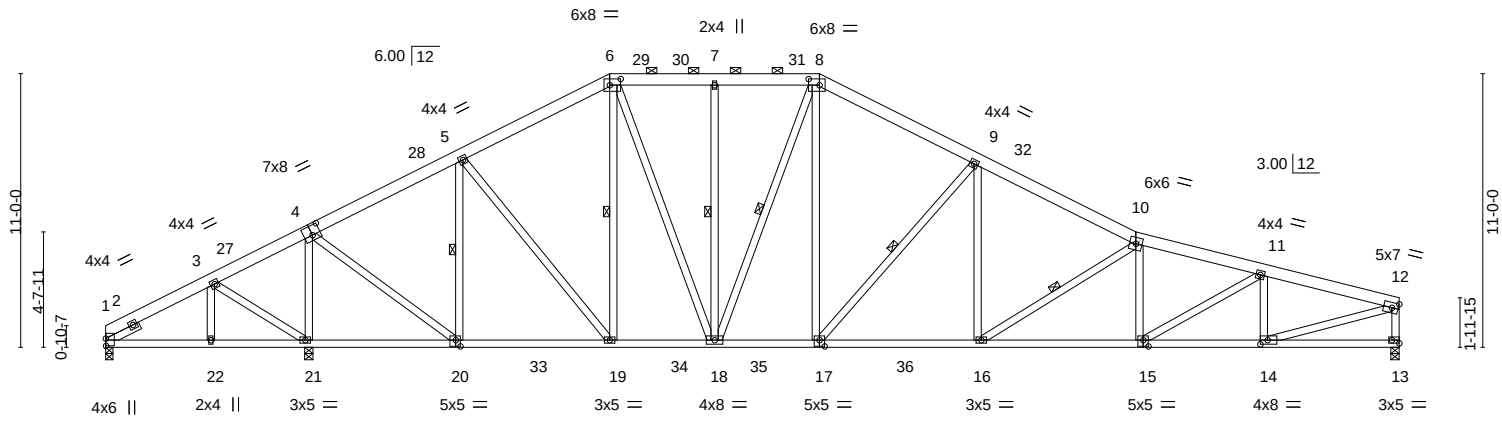

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T11 | PIGGYBACK BASE | 1 | 1 | T29069809 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:13 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-qpylnr0ENAYjvTXT5uejnjjyZpI17lphl9IcjhyPZ0S

| 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 46-6-12 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Scale = 1:92.6




| 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 46-6-12 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Plate Offsets (X,Y)-- [1:0-3-8,0-0-2], [4:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [13:Edge,0-1-8], [14:0-3-8,0-2-0], [15:0-2-8,0-3-0], [17:0-2-8,0-3-0], [20:0-2-4,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.23 | 16-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.72 | Vert(CT) | -0.41 | 15-16 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.84 | Horz(CT) | 0.10 | 13 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-AS | | | | | | | Weight: 404 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
15-17: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 1-6-0

**BRACING-**
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-20, 6-19, 7-18, 8-18, 9-17, 10-16

**REACTIONS.** (size) 1=0-3-8, 21=0-4-0, 13=0-4-0
Max Horz 1=198(LC 11)
Max Uplift 1=-232(LC 24)
Max Grav 1=26(LC 21), 21=2999(LC 17), 13=1895(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-71/614, 3-4=-108/1021, 4-5=-1090/223, 5-6=-1667/332, 6-7=-1727/364, 7-8=-1727/364, 8-9=-2203/388, 9-10=-3053/392, 10-11=-3666/407, 11-12=-3128/313, 12-13=-1798/196
BOT CHORD 1-22=-540/64, 21-22=-540/64, 20-21=-897/150, 19-20=-82/1020, 18-19=-66/1445, 17-18=-100/1851, 16-17=-198/2634, 15-16=-316/3514, 14-15=-269/2970
WEBS 3-21=-559/107, 4-21=-2476/324, 4-20=-227/2238, 5-20=-1173/200, 5-19=0/767, 6-19=-397/67, 6-18=-110/861, 8-18=-499/65, 8-17=-95/1122, 9-17=-1241/191, 9-16=0/911, 10-16=-1059/143, 11-15=-59/625, 11-14=-701/153, 12-14=-263/2983

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-2-6, Interior(1) 5-2-6 to 20-3-3, Exterior(2R) 20-3-3 to 27-7-7, Interior(1) 27-7-7 to 28-8-5, Exterior(2R) 28-8-5 to 36-0-9, Interior(1) 36-0-9 to 51-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=232.
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.
9) 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:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

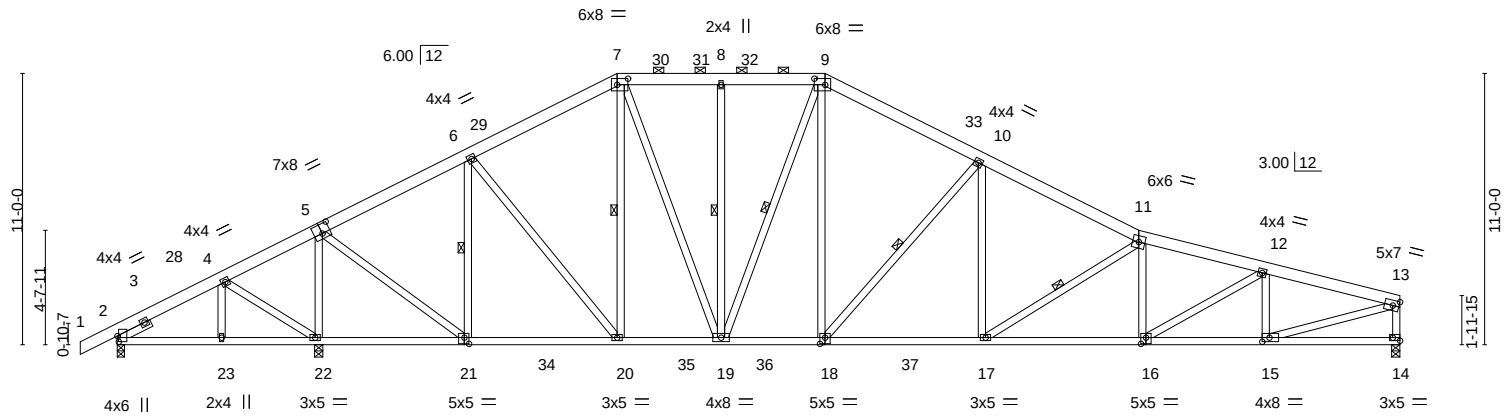
| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T12 | PIGGYBACK BASE | 1 | 1 | T29069810 |
| | | | | | Job Reference (optional) |

Mayo Truss, Mayo, Fl 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:12:05 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-J90pZ7OVB6Ce1GhCLBk4cP7xcc9wEm9w8nwWOiyPQS8

| 1-6-0 | 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 46-6-12 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Scale = 1:93.4




| 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 46-6-12 | 52-0-0 |
|---|---|---|---|---|---|---|---|---|---|
| 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 5-1-12 | 5-5-4 |

Plate Offsets (X,Y)-- [2:0-2-12,0-0-10], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [14:Edge,0-1-8], [15:0-3-8,0-2-0], [16:0-2-8,0-3-0], [18:0-2-8,0-3-0], [21:0-2-4,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.23 | 17-18 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.72 | Vert(CT) | -0.41 | 16-17 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.85 | Horz(CT) | 0.10 | 14 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-AS | | | | | | | Weight: 408 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 *Except* 16-18: 2x4 SP No.1 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-6 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 6-21, 7-20, 8-19, 9-19, 10-18, 11-17 |

**REACTIONS.** (size) 2=0-3-8, 22=0-4-0, 14=0-4-0
Max Horz 2=207(LC 11)
Max Uplift 2=-201(LC 24)
Max Grav 2=119(LC 21), 22=2998(LC 17), 14=1894(LC 18)

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

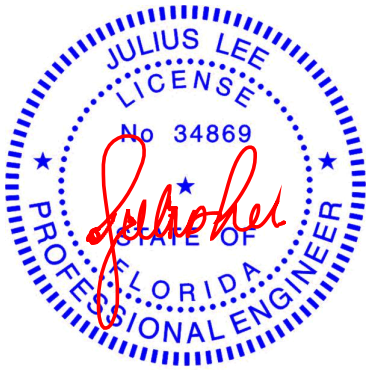
TOP CHORD 3-28=-77/594, 4-28=-66/626, 4-5=-99/1033, 5-6=-1086/207, 6-29=-1664/280, 7-29=-1591/310, 7-30=-1725/337, 30-31=-1725/337, 8-31=-1725/337, 8-32=-1725/337, 9-32=-1725/337, 9-33=-2124/354, 10-33=-2201/323, 10-11=-3052/352, 11-12=-3664/368, 12-13=-3127/285, 13-14=-1797/186

BOT CHORD 2-23=-559/73, 22-23=-559/73, 21-22=-904/144, 21-34=-60/1015, 20-34=-60/1015, 20-35=-45/1442, 19-35=-45/1442, 19-36=-83/1849, 18-36=-83/1849, 18-37=-180/2632, 17-37=-180/2632, 16-17=-296/3513, 15-16=-255/2968

WEBS 4-22=-540/100, 5-22=-2484/296, 5-21=-199/2243, 6-21=-1177/183, 6-20=0/768, 7-20=-398/61, 7-19=-91/862, 9-19=-499/55, 9-18=-80/1122, 10-18=-1241/171, 10-17=0/911, 11-17=-1059/140, 12-16=-47/625, 12-15=-700/149, 13-15=-249/2981

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-8-6, Interior(1) 3-8-6 to 20-3-3, Exterior(2R) 20-3-3 to 25-5-9, Interior(1) 25-5-9 to 28-8-5, Exterior(2R) 28-8-5 to 33-10-12, Interior(1) 33-10-12 to 51-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 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.
9) 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: October 27,2022




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

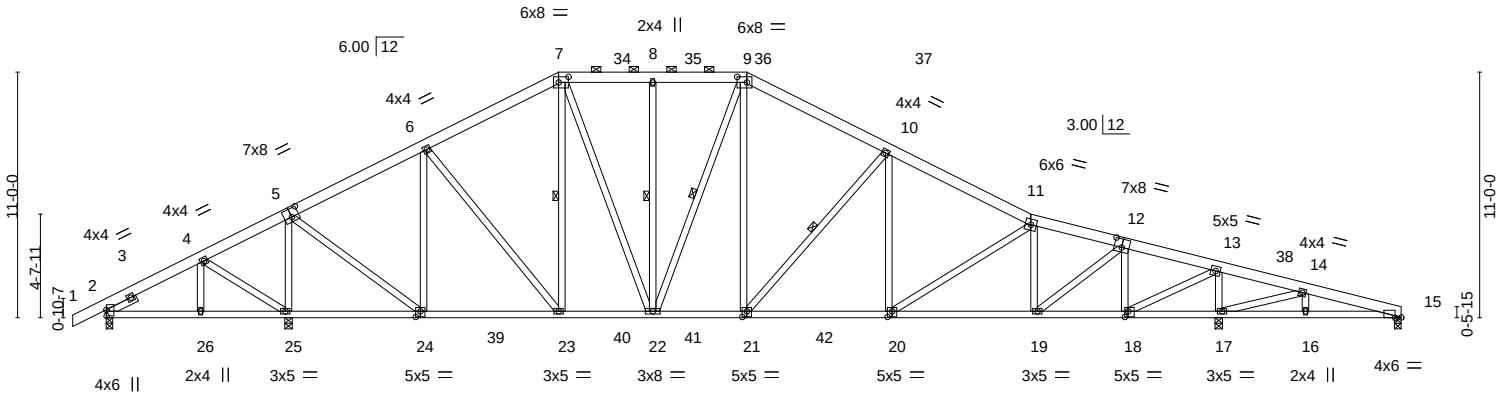
| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T13 | PIGGYBACK BASE | 1 | 1 | T29069811 |
| | | | | | Job Reference (optional) |

Mayo Truss, Mayo, Fl 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:12:53 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-vOwyeXzctsFqoeMQ9GbKYX67TzTCUSM?BFY34vyPQRO

| -1-6-0 | 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Scale = 1:103.2




| 4-2-12 | 8-2-0 | 14-2-9 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-2-12 | 3-11-4 | 6-0-9 | 6-0-9 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [12:0-4-0,0-4-8], [15:0-3-4,Edge], [18:0-1-12,0-3-0], [20:0-2-8,0-3-0], [21:0-2-8,0-3-0], [24:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.35 | Vert(LL) | -0.24 | 20-21 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.97 | Vert(CT) | -0.44 | 20-21 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.95 | Horz(CT) | 0.07 | 17 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 437 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (5-11-4 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 7-23, 8-22, 9-22, 10-21 |

**REACTIONS.** (size) 2=0-3-8, 25=0-4-0, 17=0-4-0, 15=0-3-8
Max Horz 2=-192(LC 10)
Max Uplift 2=-52(LC 22), 15=-73(LC 23)
Max Grav 2=210(LC 21), 25=2657(LC 17), 17=2693(LC 18)

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

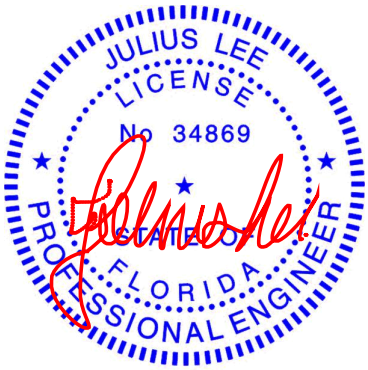
TOP CHORD 3-4=-1/344, 4-5=-29/723, 5-6=-1108/215, 6-7=-1548/308, 7-34=-1545/331, 8-34=-1545/331, 8-35=-1545/331, 35-36=-1545/331, 9-36=-1545/331, 9-37=-1899/341, 10-37=-1912/306, 10-11=-2423/324, 11-12=-2393/263, 12-13=-1249/150, 13-38=-94/1488, 14-38=-104/1446, 14-15=-65/775

BOT CHORD 2-26=-293/55, 25-26=-293/55, 24-25=-598/124, 24-39=-24/1037, 23-39=-24/1037, 23-40=0/1350, 22-40=0/1350, 22-41=-10/1601, 21-41=-10/1601, 21-42=-109/2084, 20-42=-109/2084, 19-20=-147/2317, 18-19=-72/1262, 17-18=-1421/142, 16-17=-714/77, 15-16=-714/77

WEBS 4-25=-491/89, 5-25=-2168/254, 5-24=-157/1922, 6-24=-978/157, 6-23=0/587, 7-23=-273/50, 7-22=-78/649, 9-22=-285/40, 9-21=-57/794, 10-21=-765/155, 10-20=0/397, 11-20=-273/52, 11-19=-608/140, 12-19=-91/1333, 12-18=-1283/141, 13-18=-229/2930, 13-17=-2303/254, 14-17=-739/84

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-2-12, Interior(1) 4-2-12 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 58-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 2 and 73 lb uplift at joint 15.




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

October 27,2022

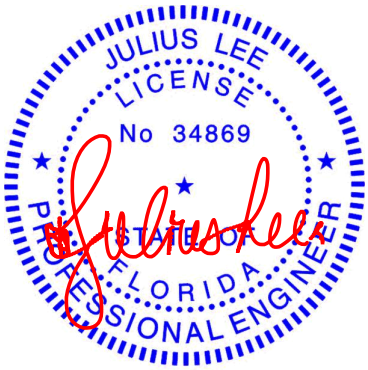
Continued on page 2



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

**NOTES-**

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.
9) 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:

October 27,2022



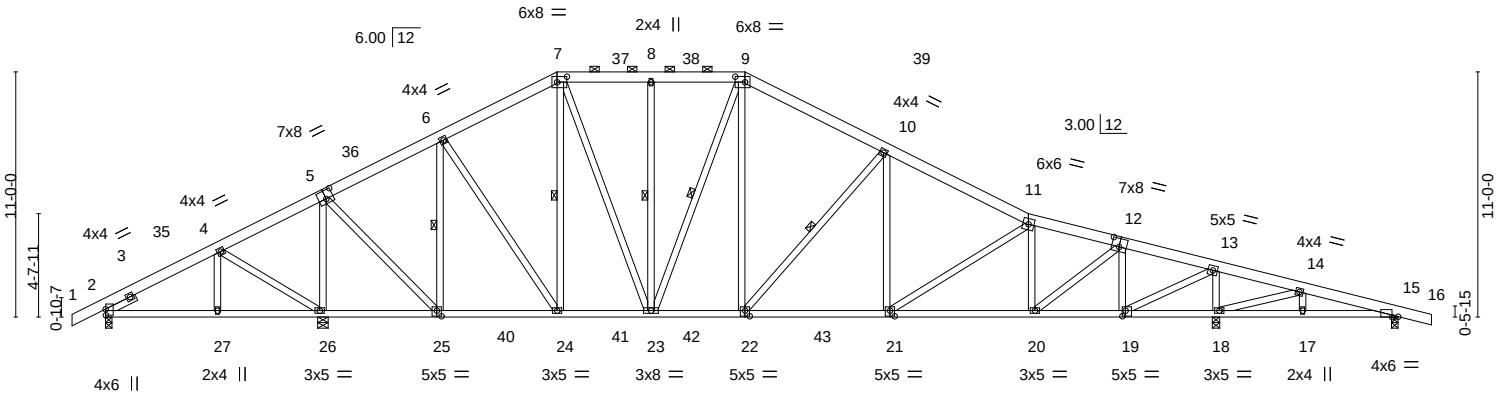

16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T14 | PIGGYBACK BASE | 1 | 1 | T29069812 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:18 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-BmleqY4NCiA??EQRuREuUmQoTqzWo_mQvR0NPuyPZ0N

| 1-6-0 | 5-0-5 | 9-9-1 | 15-0-2 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 | 59-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-0-5 | 4-8-13 | 5-3-1 | 5-3-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 | 1-6-0 |

Scale = 1:103.4




| 5-0-5 | 9-9-1 | 15-0-2 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-0-5 | 4-8-13 | 5-3-1 | 5-3-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [12:0-4-0,0-4-8], [15:0-3-4,Edge], [19:0-1-12,0-3-0], [21:0-2-8,0-3-0], [22:0-2-8,0-3-0], [25:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.23 | 21-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.95 | Vert(CT) | -0.43 | 21-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.99 | Horz(CT) | 0.06 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-AS | | | | | | | Weight: 444 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 6-25, 7-24, 8-23, 9-23, 10-22 |

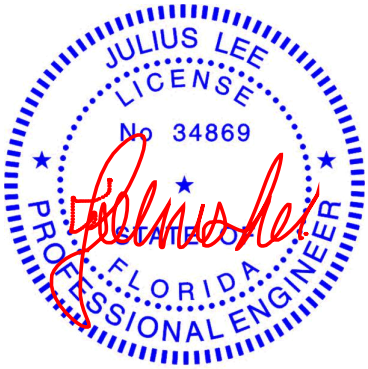
**REACTIONS.** All bearings 0-3-8 except (jt=length) 26=0-5-11, 18=0-4-0.
(lb) - Max Horz 2=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=311(LC 21), 26=2600(LC 17), 18=2591(LC 18)

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

| | |
|---|---|
| TOP CHORD | 4-5=0/633, 5-6=-845/206, 6-7=-1321/295, 7-8=-1384/318, 8-9=-1384/318, 9-10=-1764/330, 10-11=-2284/315, 11-12=-2284/258, 12-13=-1205/159, 13-14=-88/1411, 14-15=-58/733 |
| BOT CHORD | 25-26=-523/131, 24-25=0/793, 23-24=0/1148, 22-23=0/1465, 21-22=-92/1959, 20-21=-134/2210, 19-20=-65/1215, 18-19=-1345/134, 17-18=-677/83, 15-17=-677/83 |
| WEBS | 4-26=-575/96, 5-26=-2090/236, 5-25=-130/1734, 6-25=-1085/147, 6-24=0/709, 7-24=-388/52, 7-23=-84/744, 9-23=-362/47, 9-22=-60/800, 10-22=-775/157, 10-21=0/409, 11-21=-295/61, 11-20=-560/135, 12-20=-83/1258, 12-19=-1220/134, 13-19=-214/2797, 13-18=-2213/244, 14-18=-699/56 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
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.
9) 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:

October 27,2022



MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T15 | PIGGYBACK BASE | 1 | 1 | T29069813 |
| | | | | | Job Reference (optional) |

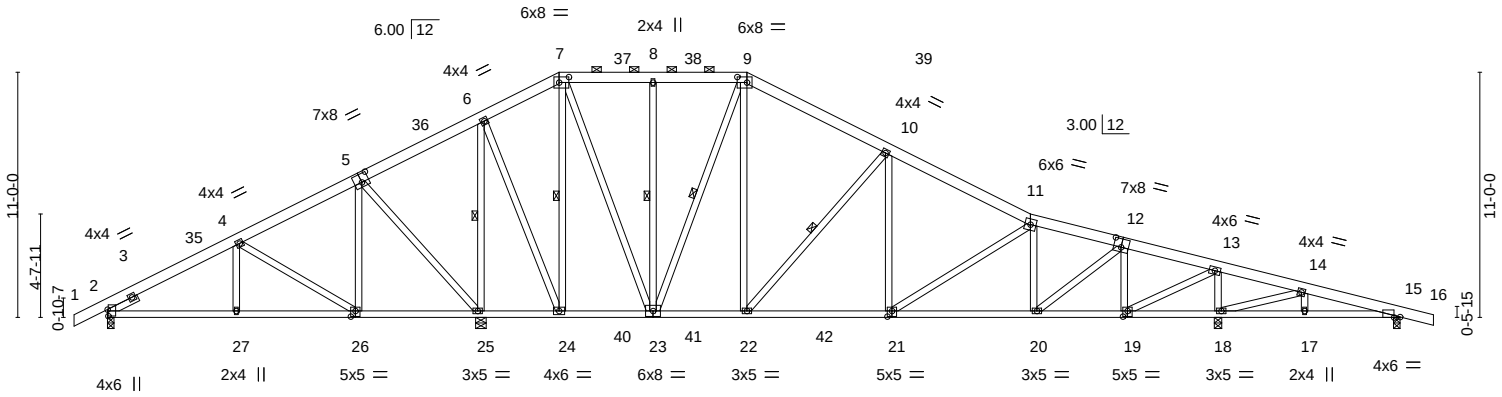
Mayo Truss, Mayo, Fl

8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:13:39 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-ZEiLIGXT2_2JJitGrwQ6QE0?qVFiGJfmlPhUhFyPQQg

| 1-6-0 | 5-9-6 | 11-3-4 | 16-9-1 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 | 59-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 5-9-6 | 5-5-14 | 5-5-14 | 3-6-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 | 1-6-0 |

Scale = 1:103.4




| 5-9-6 | 11-3-4 | 16-9-1 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5-9-6 | 5-5-14 | 5-5-14 | 3-6-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Plate Offsets (X,Y)-- [2:0-3-8,0-0-6], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [12:0-4-0,0-4-8], [15:0-3-4,Edge], [19:0-2-8,0-3-0], [21:0-2-8,0-3-0], [26:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.29 | Vert(LL) | -0.16 | 21-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.67 | Vert(CT) | -0.29 | 21-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.77 | Horz(CT) | 0.04 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 449 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 6-25, 7-24, 8-23, 9-23, 10-22 |

**REACTIONS.** All bearings 0-3-8 except (jt=length) 25=0-5-11, 18=0-4-0.
(lb) - Max Horz 2=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=619(LC 21), 25=2541(LC 17), 18=2166(LC 18)

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

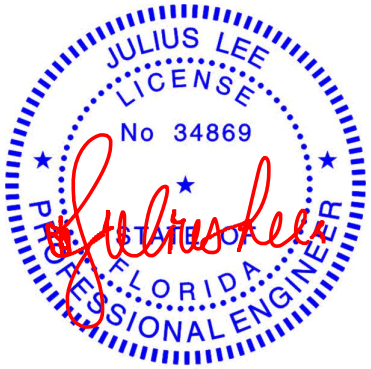
TOP CHORD 2-3=-303/0, 3-35=-675/74, 4-35=-573/90, 5-36=0/470, 6-36=0/546, 6-7=-262/215, 7-37=-582/249, 8-37=-582/249, 8-38=-582/249, 9-38=-582/249, 9-39=-1022/258, 10-39=-1034/223, 10-11=-1576/252, 11-12=-1703/207, 12-13=-914/133, 13-14=-62/1155, 14-15=-35/497

BOT CHORD 2-27=-2/643, 26-27=-2/643, 24-25=-408/163, 23-41=0/829, 22-41=0/829, 22-42=-35/1325, 21-42=-35/1325, 20-21=-83/1639, 19-20=-39/913, 18-19=-1096/109, 17-18=-450/59, 15-17=-450/59

WEBS 4-26=-606/95, 5-26=0/474, 5-25=-673/102, 6-25=-1832/217, 6-24=-56/1356, 7-24=-1102/97, 7-23=-125/1150, 8-23=-275/97, 9-23=-800/61, 9-22=-42/888, 10-22=-793/168, 10-21=0/429, 11-21=-371/69, 11-20=-357/115, 12-20=-52/920, 12-19=-938/108, 13-19=-159/2197, 13-18=-1796/206, 14-18=-676/54

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
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.
9) 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: October 27,2022




MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

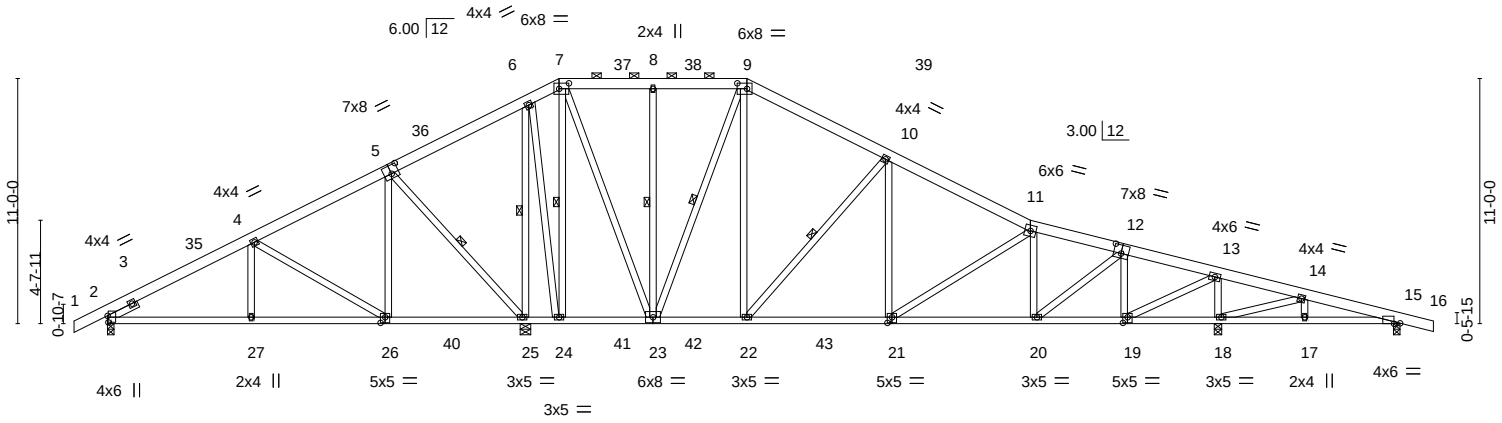
| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T16 | PIGGYBACK BASE | 1 | 1 | T29069814 |
| | | | | | Job Reference (optional) |

Mayo Truss, Mayo, Fl — 8.530 s May 26 2022 MiTek Industries, Inc. Thu Oct 27 09:14:09 2022 Page 1

ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-h?WhbWuH_Cq2vJA1cDy9dZG6VbU6ItZAf3y4lWyPQQC

| 1-6-0 | 6-5-6 | 12-7-4 | 18-9-1 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 | 59-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 6-5-6 | 6-1-14 | 6-1-14 | 1-6-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 | 1-6-0 |

Scale = 1:103.4




| 6-5-6 | 12-7-4 | 18-9-1 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6-5-6 | 6-1-14 | 6-1-14 | 1-6-1 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Plate Offsets (X,Y)-- [2:0-3-8,0-0-6], [5:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [12:0-4-0,0-4-8], [15:0-3-4,Edge], [19:0-2-8,0-3-0], [21:0-2-8,0-3-0], [26:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.34 | Vert(LL) | -0.15 | 21-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.64 | Vert(CT) | -0.28 | 21-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.74 | Horz(CT) | 0.04 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 456 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 5-25, 6-25, 7-24, 8-23, 9-23, 10-22 |

**REACTIONS.** All bearings 0-3-8 except (jt=length) 25=0-5-11, 18=0-4-0.
(lb) - Max Horz 2=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=725(LC 17), 25=2579(LC 17), 18=2049(LC 18)

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

TOP CHORD 2-3=-377/0, 3-35=-837/85, 4-35=-729/103, 4-5=-314/113, 5-36=0/425, 6-36=0/522, 7-37=-366/226, 8-37=-366/226, 8-38=-366/226, 9-38=-366/226, 9-39=-807/236, 10-39=-820/201, 10-11=-1369/231, 11-12=-1527/190, 12-13=-819/123, 13-14=-55/1099, 14-15=-28/445

BOT CHORD 2-27=-5/803, 26-27=-5/803, 24-25=-352/176, 23-42=0/665, 22-42=0/665, 22-43=-16/1138, 21-43=-16/1138, 20-21=-66/1467, 19-20=-30/815, 18-19=-1043/102, 17-18=-400/51, 15-17=-400/51

WEBS 4-27=0/273, 4-26=-683/108, 5-26=0/549, 5-25=-759/122, 6-25=-1696/215, 6-24=-30/1088, 7-24=-1084/53, 7-23=-137/1307, 8-23=-301/99, 9-23=-902/72, 9-22=-42/895, 10-22=-801/169, 10-21=0/439, 11-21=-388/72, 11-20=-317/109, 12-20=-42/827, 12-19=-860/100, 13-19=-141/2031, 13-18=-1681/194, 14-18=-671/53

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
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.
9) 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: October 27,2022



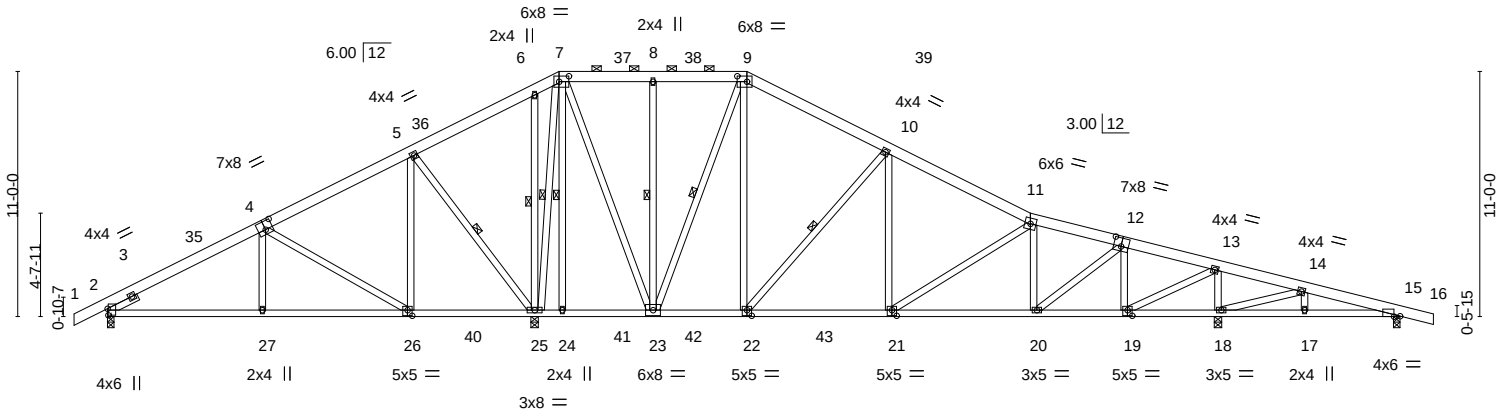

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T17 | PIGGYBACK BASE | 14 | 1 | T29069815 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:23 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-XkZXuG8V1EpI6?IOh?q3Bq8gRripTKW92ij846yPZ0I

| 1-6-0 | 6-11-6 | 13-7-4 | 19-2-0 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 | 59-6-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-6-0 | 6-11-6 | 6-7-14 | 5-6-12 | 1-1-3 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 | 1-6-0 |

Scale = 1:103.4




| 6-11-6 | 13-7-4 | 19-2-0 | 20-3-3 | 24-5-12 | 28-8-5 | 35-0-10 | 41-5-0 | 45-7-8 | 49-10-0 | 53-8-10 | 58-0-0 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6-11-6 | 6-7-14 | 5-6-12 | 1-1-3 | 4-2-9 | 4-2-9 | 6-4-5 | 6-4-5 | 4-2-8 | 4-2-8 | 3-10-10 | 4-3-6 |

Plate Offsets (X,Y)-- [2:0-3-8,0-0-6], [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [12:0-4-0,0-4-8], [15:0-3-4,Edge], [19:0-2-8,0-3-0], [21:0-2-8,0-3-0], [22:0-2-8,0-3-0], [26:0-2-8,0-3-0]

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.26 | Vert(LL) | -0.19 | 21-22 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.82 | Vert(CT) | -0.35 | 21-22 | >999 | 180 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.70 | Horz(CT) | 0.03 | 18 | n/a | n/a | | |
| BCDL | 10.0 | Code FBC2020/TPI2014 | | Matrix-AS | | | | | | | Weight: 459 lb | FT = 20% |

**LUMBER-**

| | |
|---|---|
| TOP CHORD | 2x6 SP No.2 |
| BOT CHORD | 2x4 SP No.2 |
| WEBS | 2x4 SP No.2 |
| SLIDER | Left 2x4 SP No.2 1-6-0 |

**BRACING-**

| | |
|---|---|
| TOP CHORD | Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9. |
| BOT CHORD | Rigid ceiling directly applied. |
| WEBS | 1 Row at midpt 7-24, 8-23, 9-23, 10-22, 6-25, 5-25, 7-25 |

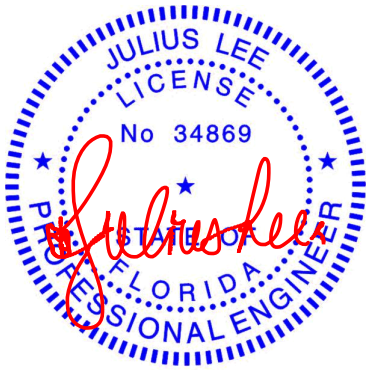
**REACTIONS.** All bearings 0-3-8 except (jt=length) 18=0-4-0, 25=0-4-0.
(lb) - Max Horz 2=-196(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=657(LC 21), 18=1918(LC 18), 25=2743(LC 17)

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

| | |
|---|---|
| TOP CHORD | 2-4=-661/92, 5-6=0/707, 6-7=0/538, 9-10=-621/248, 10-11=-1188/237, 11-12=-1391/197, 12-13=-772/129, 13-14=-50/979, 14-15=-24/337 |
| BOT CHORD | 2-27=0/584, 26-27=0/581, 24-25=-440/162, 23-24=-441/162, 22-23=0/479, 21-22=-22/976, 20-21=-73/1333, 19-20=-36/763, 18-19=-926/98, 17-18=-296/48, 15-17=-296/48 |
| WEBS | 4-27=0/304, 4-26=-656/63, 5-26=0/529, 7-23=-122/1424, 8-23=-281/94, 9-23=-942/91, 9-22=-65/838, 10-22=-836/163, 10-21=0/480, 11-21=-421/73, 11-20=-262/109, 12-20=-43/724, 12-19=-774/101, 13-19=-143/1848, 13-18=-1554/195, 14-18=-659/53, 6-25=-425/121, 5-25=-843/163, 7-25=-1408/87 |

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=7ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-3-10, Interior(1) 4-3-10 to 20-3-3, Exterior(2R) 20-3-3 to 26-0-12, Interior(1) 26-0-12 to 28-8-5, Exterior(2R) 28-8-5 to 34-5-15, Interior(1) 34-5-15 to 59-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
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.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 27,2022



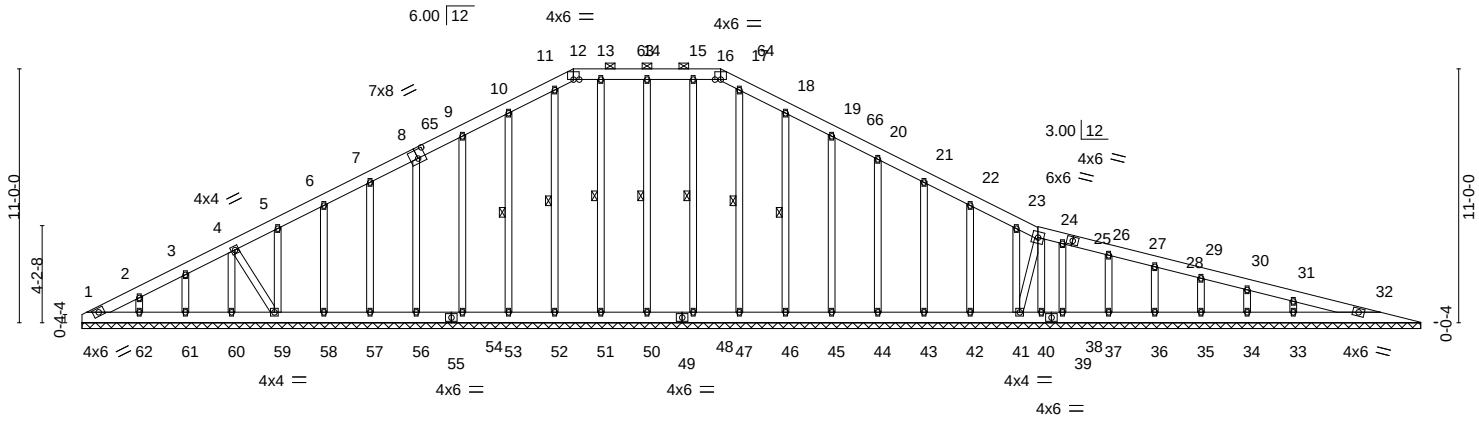
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

| Job | Truss | Truss Type | Qty | Ply | Megan Holloway |
|---|---|---|---|---|---|
| MEGAN_HOLLOWAY | T18 | GABLE | 1 | 1 | T29069816 |
| | | | | | Job Reference (optional) |

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Oct 26 11:27:26 2022 Page 1
ID:9_WKkVLZ72Nen5bY88LPMkyrWOS-yJEfWHBOJ9BtzT1zM7NmpSmEp2vYgovckgyohQyPZ0F

1-6-0 | 20-3-3 | 24-5-12 | 28-8-5 | 41-5-0 | 58-0-0 | 59-6-0
1-6-0 | 20-3-3 | 4-2-9 | 4-2-9 | 12-8-10 | 16-7-0 | 1-6-0

Scale = 1:99.8




24-5-12 | 41-5-0 | 58-0-0
24-5-12 | 16-11-4 | 16-7-0

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

| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 20.0 | Plate Grip DOL | 1.25 | TC | 0.06 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.25 | BC | 0.05 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.00 | 32 | n/a | n/a | | |
| BCDL | 10.0 | Code | FBC2020/TPI2014 | Matrix-S | | | | | | | Weight: 500 lb | FT = 20% |

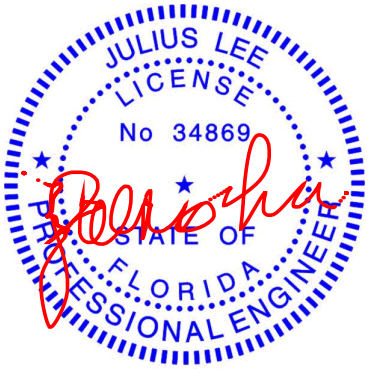
**LUMBER-**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 12-16.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 13-51, 11-52, 10-53, 15-48, 17-47, 18-46, 14-50

**REACTIONS.** All bearings 58-0-0.
(lb) - Max Horz 1=-193(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 56, 53, 54, 58, 57, 59, 61, 62, 46, 45, 44, 43, 42, 41, 40, 37, 35, 36, 34, 33, 50
Max Grav All reactions 250 lb or less at joint(s) 1, 51, 52, 56, 53, 54, 58, 57, 59, 60, 61, 62, 48, 47, 46, 45, 44, 43, 42, 41, 40, 38, 37, 35, 36, 34, 50, 32 except 33=304(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-97/252

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=58ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-3-2 to 6-0-11, Exterior(2N) 6-0-11 to 21-3-7, Corner(3R) 21-3-7 to 27-1-1, Exterior(2N) 27-1-1 to 27-8-0, Corner(3R) 27-8-0 to 33-5-10, Exterior(2N) 33-5-10 to 56-2-11 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 56, 53, 54, 58, 57, 59, 61, 62, 46, 45, 44, 43, 42, 41, 40, 37, 35, 36, 34, 33, 50.
12) 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:

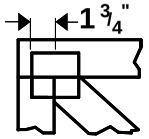
October 27,2022



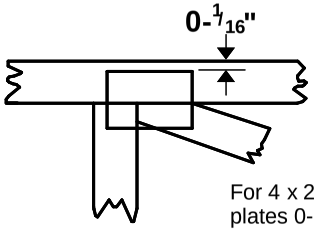
MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

# Symbols

## PLATE LOCATION AND ORIENTATION




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




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

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

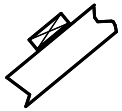
*** Plate location details available in MiTek 20/20 software or upon request.**

## PLATE SIZE

4 x 4

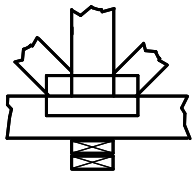
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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

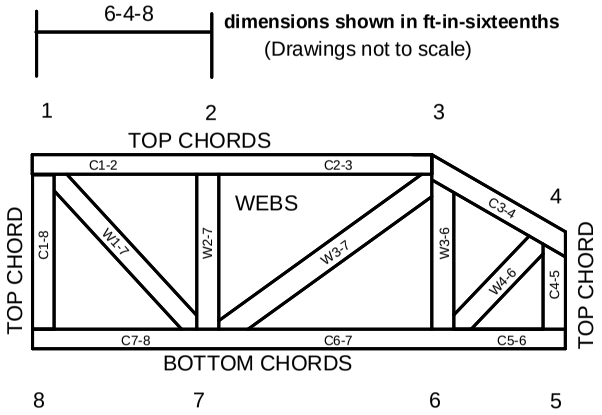


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

**Industry Standards:**

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

21.The design does not take into account any dynamic or other loads other than those expressly stated.