## MiTek

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

RE: 3495474 - DELOACH RES.

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Site Information:

Customer Info: Giebeig Const. Project Name: Deloach Res. Model: Custom

Subdivision: N/A

Lot/Block: N/A Address: TBD SW Birley Ave., N/A

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Wind Code: ASCE 7-22

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.7

Wind Speed: 130 mph

Floor Load: N/A psf

This package includes 7 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No.              | Seal#                  | Truss Name  | Date               |
|------------------|------------------------|-------------|--------------------|
| 1<br>2<br>3      | T32965058<br>T32965059 | T01<br>T01G | 2/19/24 2/19/24    |
| 3                | T32965060<br>T32965061 | T02<br>T02G | 2/19/24            |
| 4<br>5<br>6<br>7 | T32965062              | T03         | 2/19/24<br>2/19/24 |
| 6<br>7           | T32965063<br>T32965064 | T04<br>T04G | 2/19/24<br>2/19/24 |



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

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

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

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

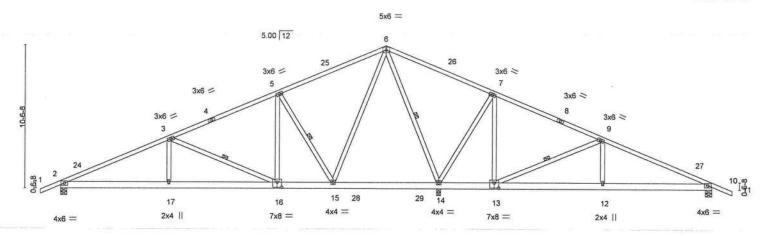


Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

February 19,2024

Job Truss Truss Type DELOACH RES. Qty Ply T32965058 3495474 T01 6 Common | Job Reference (optional) 8.730 s Jan 4 2024 MiTek Industries, Inc. Fri Feb 16 10:32:56 2024 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055 ID:s?32egl?RfELlkBvUzyqJyzbQiO-uzgupTxRaTqnGY9Qd6hS8bOuUxtrEs\_a389Kl4zkb75 32-0-0 8-0-0 8-0-0

Scale = 1:81.8



| 1   | 8-0-0<br>8-0-0  | 16-0-0<br>8-0-0              | 20-1-4                                | 27-10-12<br>7-9-8                         | 32-0-0  | -1                            | 40-0-0<br>8-0-0          | 48-            |                 |
|---|---|------------------------------|---------------------------------------|---|---|-------------------------------|--------------------------|----------------|-----------------|
| Plate Offsets (X,Y                        |   |                              | 30107                                 | 7-5-0                                     | 4-1-4   |                               | 0-0-0                    | 6-4            | J-U             |
| LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 | SPACING-<br>Plate Grip DOL<br>Lumber DOL<br>Rep Stress Incr | 2-0-0<br>1.25<br>1.25<br>YES | CSI.<br>TC 0.80<br>BC 0.40<br>WB 1.00 | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (loc)<br>-0.09 16-17<br>-0.15 16-17<br>0.03 14 | l/defl<br>>999<br>>999<br>n/a | L/d<br>240<br>180<br>n/a | PLATES<br>MT20 | GRIP<br>244/190 |
| BCDL 10.0                                 | Code FBC2023/   | TPI2014                      | Matrix-MS                             | 11.25***********************************  |   | 12.17.9721                    | ADMINISTRA               | Weight: 302 lb | FT = 20%        |

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

0.

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

2x4 SP No.3

(size) 2=0-5-8, 14=0-3-8, 10=0-5-8

Max Horz 2=-177(LC 13)

Max Uplift 2=-290(LC 12), 14=-503(LC 12), 10=-209(LC 13) Max Grav 2=965(LC 27), 14=2539(LC 2), 10=609(LC 26)

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

TOP CHORD

2-3=-1618/444, 3-5=-794/260, 5-6=-338/194, 6-7=-99/918, 7-9=-101/476,

9-10=-762/249 BOT CHORD

2-17=-489/1438, 16-17=-489/1438, 15-16=-194/692, 14-15=-206/291, 13-14=-414/201,

12-13=-132/636, 10-12=-132/636

**WEBS** 

6-14=-1644/439, 7-14=-825/379, 7-13=-86/500, 9-13=-891/333, 9-12=0/373, 6-15=-311/1035, 5-15=-846/384, 5-16=-91/526, 3-16=-840/322, 3-17=0/349

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 24-0-0, Zone2 24-0-0 to 28-2-15. Zone1 28-2-15 to 49-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 14=503, 10=209,

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Philip J. O'Regna PE No. 38126 MITek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63917

Structural wood sheathing directly applied or 4-3-1 oc purlins.

6-14, 9-13, 5-15, 3-16

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

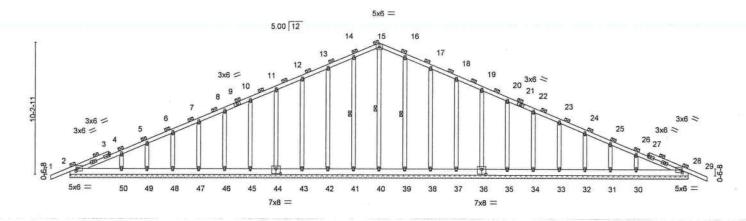
February 19,2024

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



| Job                          | Truss                       | Truss Type             | Qty            | Ply        | DELOACH RES.                                |                        |
|------------------------------|-----------------------------|------------------------|----------------|------------|---|------------------------|
| 3495474                      | T01G                        | Common Supported Gable | 1              | 1          | AND RECORDED TO THE PARTY OF                | T32965059              |
|                              |                             | 1993                   |                |            | Job Reference (optional)                    |                        |
| Builders FirstSource (Lake C | City,FL), Lake City, FL - 3 | 32055,                 |                | 8.730 s J  | an 4 2024 MiTek Industries, Inc. Fri Feb 16 | 5 10:32:59 2024 Page 1 |
|                              |                             |                        | ID:s?32egl?Rff | LlkBvUzyqJ | lyzbQiO-JYM1RV_JtODM7?u?IFE9mD0ZB8          | 8 6RQB0I6O MPzkb72     |
| <sub>L</sub> 1-6-Q           |                             | 24-0-0                 | - Land         |            | 48-0-0                                      | 49-6-0                 |
| 1-6-0                        |                             | 24-0-0                 |                |            | 24-0-0                                      | 1-6-0                  |

Scale = 1:85.9



| Plate Offsets (X,Y) | [2:0-1-4,0-2-7], [28:0-1-4,0-2-7], [3 | 6:0-4-0,0-4-8], [44:0-4-0,0-4 | -8]                                     |              |     |   |          |
|---------------------|---------------------------------------|-------------------------------|---|--------------|-----|---|----------|
| LOADING (psf)       | SPACING- 2-0-0                        | CSI.                          | DEFL. in                                | (loc) I/defl | L/d | PLATES                                  | GRIP     |
| TCLL 20.0           | Plate Grip DOL 1.25                   | TC 0.13                       | Vert(LL) -0.00                          | 29 n/r       | 120 | MT20                                    | 244/190  |
| TCDL 7.0            | Lumber DOL 1.25                       | BC 0.05                       | Vert(CT) -0.00                          | 29 n/r       | 120 | 300000000000000000000000000000000000000 |          |
| BCLL 0.0 *          | Rep Stress Incr YES                   | WB 0.14                       | Horz(CT) 0.01                           | 28 n/a       | n/a |   |          |
| BCDL 10.0           | Code FBC2023/TPI2014                  | Matrix-S                      | 1.0000000000000000000000000000000000000 |              |     | Weight: 363 lb                          | FT = 20% |

TOP CHORD 2x4 SP No 2 2x6 SP No 2 BOT CHORD **OTHERS** 

2x4 SP No.3

TOP CHORD BOT CHORD WEBS

2-0-0 oc purlins (6-0-0 max.).

1 Row at midpt

Rigid ceiling directly applied or 10-0-0 oc bracing. 15-40, 14-41, 16-39

REACTIONS. All bearings 48-0-0

(lb) - Max Horz 2=172(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 39, 38, 37, 36, 35,

34, 33, 32, 31, 30, 28

Max Grav All reactions 250 lb or less at joint(s) 2, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28

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

14-15=-108/279, 15-16=-108/279 TOP CHORD

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28.

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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Philip J. O'Regna PE No.58126 MiTek Inc. DBA MITek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

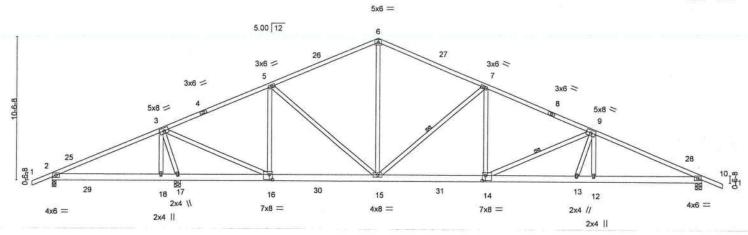
February 19,2024

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



| Job               | Truss                | Truss Type             |        | Qty           | Ply        | DELOACH RES.                      |                    |   |
|-------------------|----------------------|------------------------|--------|---------------|------------|-----------------------------------|--------------------|---|
| 3495474           | T02                  | Common                 |        | 5             | 1          |                                   |                    | T32965060   |
|                   |                      |                        |        |               |            | Job Reference (optional)          |                    | NOTE OF THE PARTY |
| Builders FirstSoi | urce (Lake City,FL), | Lake City, FL - 32055, |        |               |            | lan 4 2024 MiTek Industries, Inc. |                    |   |
|                   | 127612               | 200.0                  |        | ID:s?32egl?Rf | ELlkBvUzyq | JyzbQiO-FwTnsB?ZP0T4MJ2NP         | gGdre5msyX7v9DJCQt | 5QHzkb70  |
| r1-6-0            | 8-0-0                | 16-0-0                 | 24-0-0 | 32-0          | -0         | 40-0-0                            | 48-0-0             | 49-6-0  |
| 1-6-0             | 8-0-0                | 8-0-0                  | 8-0-0  | 8-0-          | 0          | 8-0-0                             | 8-0-0              | 1-6-0   |

Scale = 1:81.8



| 1                               |                               | 8-0-0       | 9-2-12  | 16-0-0                       |                        | 24-0-0               |   | 32-0-0                                   | 3       | 38-9-4                   | 40-0-0         | 48-0-0          |
|---------------------------------|-------------------------------|-------------|---|------------------------------|------------------------|----------------------|---|--|---------|--------------------------|----------------|-----------------|
|                                 |                               | 8-0-0       | 1-2-12  | 6-9-4                        | 1                      | 8-0-0                |   | 8-0-0                                    |         | 6-9-4                    | 1-2-12         | 8-0-0           |
| Plate Offse                     | ets (X,Y)-                    | [14:0-2-12, | 0-4-8], [16:0-2                                 | -12,0-4-8]                   |                        |                      |   |  |         |                          |                |                 |
| LOADING<br>TCLL<br>TCDL<br>BCLL | (psf)<br>20.0<br>7.0<br>0.0 * | Plat<br>Lum | ACING-<br>e Grip DOL<br>aber DOL<br>Stress Incr | 2-0-0<br>1.25<br>1.25<br>YES | CSI.<br>TC<br>BC<br>WB | 0.69<br>0.59<br>0.87 | DEFL.<br>Vert(LL)<br>Vert(CT)<br>Horz(CT) | in (lo<br>-0.18 13-<br>-0.31 13-<br>0.06 | 14 >999 | L/d<br>240<br>180<br>n/a | PLATES<br>MT20 | GRIP<br>244/190 |
| BCDL                            | 10.0                          | Cod         | e FBC2023/T                                     | PI2014                       | Matri                  | x-MS                 | 1 1758 95                                 |  |         |                          | Weight: 30     | 2 lb FT = 20%   |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

WEBS

2x4 SP No.3

(size) 2=0-3-8, 17=0-5-8, 10=0-5-8

Max Horz 2=-177(LC 13)

Max Uplift 2=-167(LC 8), 17=-508(LC 12), 10=-431(LC 13) Max Grav 2=327(LC 25), 17=2233(LC 2), 10=1581(LC 2)

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

TOP CHORD

2-3=-70/391, 3-5=-1258/313, 5-6=-1524/453, 6-7=-1525/430, 7-9=-2368/619,

9-10=-3098/794 BOT CHORD

2-18=-337/248, 17-18=-339/247, 16-17=-989/373, 15-16=-223/1098, 14-15=-348/2127,

13-14=-621/2835, 12-13=-633/2799, 10-12=-633/2801

WEBS

6-15=-172/795, 7-15=-1045/410, 7-14=-76/626, 9-14=-776/299, 5-15=-74/409,

5-16=-722/217, 3-16=-395/2282, 3-17=-2159/597

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1 28-2-15 to 49-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=167, 17=508, 10=431,

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

Structural wood sheathing directly applied or 2-9-9 oc purlins.

7-15, 9-14

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

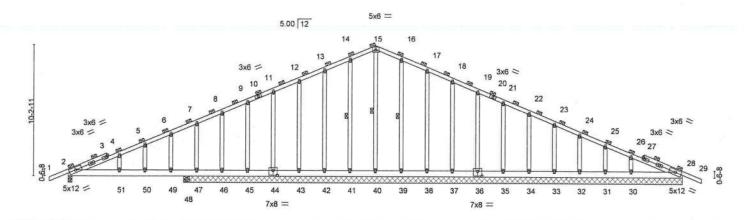
February 19,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prove with possible personal injury and properly eneral guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



| Job                  | Truss                   | Truss Type             | Qty          | Ply         | DELOACH RES.                                |                 |
|----------------------|-------------------------|------------------------|--------------|-------------|---|-----------------|
| 3495474              | T02G                    | Common Supported Gable | 1            | 1           | 000,000,000,000,000,000,000                 | T32965061       |
|                      |                         | 222                    |              |             | Job Reference (optional)                    |                 |
| Builders FirstSource | ce (Lake City,FL), Lake | City, FL - 32055,      |              |             | an 4 2024 MiTek Industries, Inc. Fri Feb 16 |                 |
|                      |                         |                        | ID:s?32egi?R | fELlkBvUzyo | qJyzbQiO-BJbYHs1qxdjobcBmX4J5x3ACTIE        | MNEBcgkMBVAzkb7 |
| <sub>t</sub> 1-6-    | q                       | 24-0-0                 | 1            |             | 48-0-0                                      | 49-6-0          |
| 1-6-0                | 0'                      | 24-0-0                 | 1            |             | 24-0-0                                      | 1.60            |

Scale = 1:86.6



|           | i .        | 9-0-0                      |          |       |      |   | 48-0  | 0-0   |        |     |                | · ·      |
|-----------|------------|----------------------------|----------|-------|------|---|-------|-------|--------|-----|----------------|----------|
|           | -          | 9-0-0                      |          |       |      |   | 39-0  | )-0   |        |     |                |          |
| Plate Off | sets (X,Y) | [36:0-4-0,0-4-8], [44:0-4- | 0,0-4-8] |       |      |   |       |       |        |     |                |          |
| LOADING   | G (psf)    | SPACING-                   | 2-0-0    | CSI.  |      | DEFL.                                   | in    | (loc) | l/defl | L/d | PLATES         | GRIP     |
| TCLL      | 20.0       | Plate Grip DOL             | 1.25     | TC    | 0.30 | Vert(LL)                                | 0.09  | 51    | >999   | 240 | MT20           | 244/190  |
| TCDL      | 7.0        | Lumber DOL                 | 1.25     | BC    | 0.54 | Vert(CT)                                | -0.13 | 51    | >847   | 180 | 300.007-53     |          |
| BCLL      | 0.0        | Rep Stress Incr            | YES      | WB    | 0.14 | Horz(CT)                                | 0.01  | 28    | n/a    | n/a |                |          |
| BCDL      | 10.0       | Code FBC2023/T             | PI2014   | Matri | x-S  | 100.000.000.000.000.000.000.000.000.000 |       |       |        |     | Weight: 363 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No.2 **OTHERS** 2x4 SP No.3 BRACING-TOP CHORD

**BOT CHORD** WEBS

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt

15-40, 14-41, 16-39

REACTIONS. All bearings 39-0-0 except (jt=length) 2=0-3-8, 48=0-5-8.

(lb) - Max Horz 47=172(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 41, 42, 43, 44, 45, 46, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28 except 2=-141(LC 8), 47=-826(LC 1), 48=-633(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 40, 41, 42, 43, 44, 45, 46, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28 except 2=355(LC 1), 47=426(LC 8), 48=1315(LC 1)

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

14-15=-101/256, 15-16=-101/256 TOP CHORD

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 41, 42, 43, 44, 45, 46, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 28 except (jt=lb) 2=141, 47=826, 48=633.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

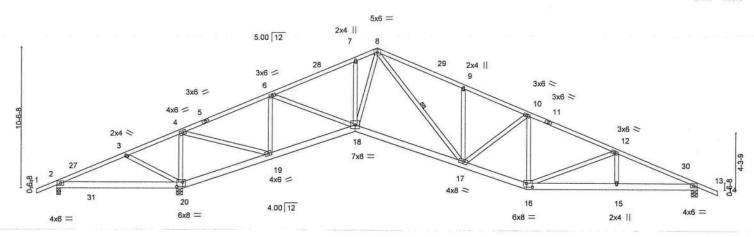
February 19,2024

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



| Job                |              | Tru     | ss    |            | Truss T     | уре    |        |        | Qty     | Ply          | DELOACH      | RES.                     |                   |             |
|--------------------|--------------|---------|-------|------------|-------------|--------|--------|--------|---------|--------------|--------------|--------------------------|-------------------|-------------|
| 3495474            |              | TOS     | 3     |            | Roof S      | pecial |        |        | 3       | 1            |              |                          |                   | T3296506    |
|                    |              |         |       |            |             |        |        |        |         |              | Job Referen  | ce (optional)            |                   |             |
| Builders First     | Source (Lake | City, F | L), 1 | Lake City, | FL - 32055, |        |        |        |         | 8.730 s J    | an 4 2024 Mi | Tek Industries, Inc. Fri | Feb 16 10:33:05 2 | 024 Page 1  |
|                    |              |         |       |            |             |        |        |        | ID:s?32 | 2egi?RfELlkl | BvUzyqJyzbQi | iO-7ijlhY24TEzVrwL8e     | VLZ0UFSEZxfrzkv   | 72rlY2zkb6y |
| <sub>c</sub> 1-6-0 | 5-3-5        | 1       | 9-5-8 | - 1        | 16-0-0      | 1      | 22-4-4 | 24-0-0 | 30-6-0  |              | 35-3-0       | 42-0-0                   | 48-0-0            | 49-6-0      |
| 1-6-0              | 5-3-5        | 1       | 4-2-3 | ,          | 6-6-8       |        | 6-4-4  | 1-7-12 | 6-6-0   | - 1          | 4-9-0        | 6-9-0                    | 6-0-0             | 1-6-0       |

Scale = 1:83.1



| L           |           | 9-2-12        | 9-5-8          | 16-0-0   | 1 2   | 2-4-4 | 30-6-0   |       | 1     | 35-3-0 | 1   | 42-0-0 | 48-0   | 0-0      |
|-------------|-----------|---------------|----------------|----------|-------|-------|----------|-------|-------|--------|-----|--------|--------|----------|
| 1           |           | 9-2-12        | 0-2-12         | 6-6-8    | 1 6   | -4-4  | 8-1-12   |       | - 1   | 4-9-0  | ,   | 6-9-0  | 6-0    | -0       |
| Plate Offse | ets (X,Y) | [16:0-5-4,0-3 | -8], [20:0-5-4 | 1,0-4-0] |       |       |          | 1000  |       |        |     |        |        |          |
| LOADING     | (psf)     | SPAC          | ING-           | 2-0-0    | CSI.  |       | DEFL.    | in    | (loc) | l/defl | L/d | PLATE  | s      | GRIP     |
| TCLL        | 20.0      | Plate         | Grip DOL       | 1.25     | TC    | 0.67  | Vert(LL) | -0.16 | 17    | >999   | 240 | MT20   |        | 244/190  |
| CDL         | 7.0       | Lumbe         | er DOL         | 1.25     | BC    | 0.49  | Vert(CT) | -0.32 | 17-18 | >999   | 180 | 11/4   |        | TARRES   |
| BCLL        | 0.0       | Rep S         | tress Incr     | YES      | WB    | 0.84  | Horz(CT) | 0.11  | 13    | n/a    | n/a |        |        |          |
| BCDL        | 10.0      | Code          | FBC2023/TI     | PI2014   | Matri | x-MS  |          |       |       |        |     | Weight | 306 lb | FT = 20% |

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3

(size) 2=0-3-8, 20=0-5-8, 13=0-5-8

Max Horz 2=-177(LC 13)

Max Uplift 2=-322(LC 26), 20=-647(LC 12), 13=-412(LC 13) Max Grav 2=50(LC 13), 20=2592(LC 1), 13=1346(LC 1)

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

TOP CHORD

REACTIONS.

2-3=-266/1311, 3-4=-368/1614, 4-6=-719/185, 6-7=-1795/365, 7-8=-1740/435,

8-9=-2102/713, 9-10=-2081/608, 10-12=-2105/641, 12-13=-2623/766

BOT CHORD

2-20=-1150/371, 19-20=-1620/487, 18-19=-128/656, 17-18=-134/1514, 16-17=-432/1991,

15-16=-629/2371, 13-15=-629/2371

WEBS

3-20=-337/182, 4-20=-1725/491, 4-19=-437/2193, 6-19=-1181/304, 6-18=-135/1061, 7-18=-252/170, 8-18=-195/685, 8-17=-499/852, 9-17=-317/220, 10-16=-310/69,

12-16=-539/235

## NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 24-0-0, Zone2 24-0-0 to 28-2-15, Zone1 28-2-15 to 49-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=322, 20=647, 13=412.

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Structural wood sheathing directly applied or 2-11-8 oc purlins.

8-17

Rigid ceiling directly applied or 5-8-6 oc bracing.

1 Row at midpt

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February 19,2024

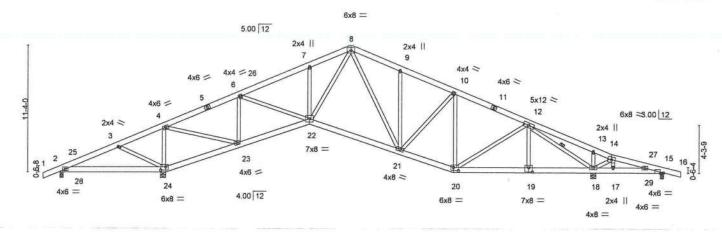
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 rev. 1/2/2023 BEFORE USE.

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



| Job  |                         | Truss        |              | Truss Type  |        |             | Qty         | Ply         | DELOACH RES.          |                   |            |           |           |
|------|-------------------------|--------------|--------------|-------------|--------|-------------|-------------|-------------|-----------------------|-------------------|------------|-----------|-----------|
| 3495 | 5474                    | T04          |              | Roof Specia | al     |             | 14          | 1           |                       |                   |            |           | T32965063 |
|      |                         |              |              |             |        |             |             |             | Job Reference (option | nai)              |            |           |           |
| Bui  | ilders FirstSource (Lak | (e City,FL), | Lake City, F | L - 32055,  |        |             |             | 8.730 s J   | an 4 2024 MiTek Indus | tries, Inc. Fri I | Feb 16 10: | 33:07 202 | 4 Page 1  |
|      |                         |              |              |             |        |             | ID:s?32egi? | RfELlkBvUzy | qJyzbQiO-44r26E4K?s   | DD4EVXmwN         | 15vLtbMel. | JtgCbMKI  | dxzkb6w   |
|      | 11-6-0                  | 5-3-5        | 9-5-8        | 16-0-0      | 22-4-4 | , 26-0-10 , | 30-6-0      | 35-3-0      | 42-0-0                | 47-9-4            | 49-5-0     | 54-0-0    | 55-6-0    |
|      | 1-6-0                   | 5-3-5        | 4-2-3        | 6-6-8       | 6-4-4  | 3-8-6       | 4-5-6       | 4-9-0       | 6-9-0                 | 5-9-4             | 1-7-12     | 4-7-0     | 1-6-0     |

Scale = 1:99.2



|            | į.         |                           | 5-8 16-0-0         | 22-4-4                    | 30-6-0   | 35-3-0      | 1      | 42-0-0 | 47-9-4 49-5-  | 0 54-0-0   |
|------------|------------|---------------------------|--------------------|---------------------------|----------|-------------|--------|--------|---------------|------------|
|            |            | 9-2-12 0-2                | -12 6-6-8          | 6-4-4                     | 8-1-12   | 4-9-0       | 1      | 6-9-0  | 5-9-4 1-7-1   | 2 4-7-0    |
| Plate Offs | sets (X,Y) | [15:0-3-6,Edge], [19:0-4- | 0,0-4-8], [20:0-5- | 4,0-3-8], [24:0-5-4,0-3-8 | 3]       |             |        |        |               |            |
| LOADING    | G (psf)    | SPACING-                  | 2-0-0              | CSI.                      | DEFL.    | in (loc)    | l/defl | L/d    | PLATES        | GRIP       |
| TCLL       | 20.0       | Plate Grip DOL            | 1.25               | TC 0.36                   | Vert(LL) | -0.10 21-22 | >999   | 240    | MT20          | 244/190    |
| TCDL       | 7.0        | Lumber DOL                | 1.25               | BC 0.35                   | Vert(CT) | -0.21 21-22 | >999   | 180    | 2000          |            |
| BCLL       | 0.0 *      | Rep Stress Incr           | YES                | WB 0.81                   | Horz(CT) | 0.09 18     | n/a    | n/a    |               |            |
| BCDL       | 10.0       | Code FBC2023/7            | PI2014             | Matrix-S                  |          |             |        |        | Weight: 407 I | b FT = 20% |

| L | U | M | В | E | R- |  |
|---|---|---|---|---|----|--|
|   |   |   |   |   |    |  |

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

## BRACING-TOP CHORD

WEBS

Structural wood sheathing directly applied or 5-2-4 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

12-18

REACTIONS. All bearings 0-3-8 except (jt=length) 24=0-5-8, 18=0-5-8.

(lb) - Max Horz 2=116(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-197(LC 26), 24=-323(LC 12), 15=-132(LC 9),

18=-241(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 15 except 24=2423(LC 1), 18=1624(LC 1)

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

TOP CHORD 2-3=-117/1034, 3-4=-197/1356, 4-6=-917/202, 6-7=-1911/371, 7-8=-1877/433,

8-9=-1626/461, 9-10=-1642/395, 10-12=-1604/375

**BOT CHORD** 2-24=-887/130, 23-24=-1361/302, 22-23=-72/844, 21-22=-60/1380, 20-21=-180/1507,

19-20=-170/1341, 18-19=-170/1341

3-24=-355/161, 4-24=-1675/314, 4-23=-296/2121, 6-23=-1102/230, 6-22=-95/978, 7-22=-269/154, 8-22=-117/839, 8-21=-208/517, 10-20=-414/80, 12-18=-1851/350,

13-18=-334/119

## NOTES-

**WEBS** 

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) interior zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 26-0-10, Zone2 26-0-10 to 30-6-0, Zone1 30-6-0 to 55-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2, 323 lb uplift at joint 24, 132 lb uplift at joint 15 and 241 lb uplift at joint 18.

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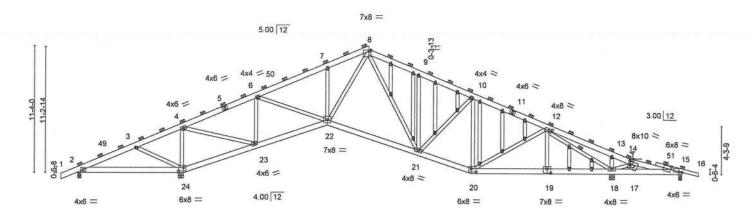
February 19,2024

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| Job                          | Truss         | Truss |        | Truss Type |           |              | Ply          | DELOACH RES.                                   |                    |           |            |             |  |
|------------------------------|---------------|-------|--------|------------|-----------|--------------|--------------|--|--------------------|-----------|------------|-------------|--|
| 3495474                      | T04G          |       | GABLE  |            |           | 2            |              |  |                    |           |            | T3296506    |  |
|                              |               |       |        |            |           |              |              | Job Reference (option                          | nal)               |           |            |             |  |
| Builders FirstSource, Lake C | ity, FL 32055 |       |        |            |           | ID: #2220.00 | ODEL ILDULIA | 8.730 s Nov 16 2023 MiTe<br>yqJyzbQiO-S6C3T4NP | k Industries, Inc. | Mon Feb 1 | 9 06:19:34 | 2024 Page 1 |  |
| 100                          | F 0 F         | 0.00  | 10.00  | 00 4 4     | 00 0 10   |              |              |  |                    |           |            | 100         |  |
| 11-6-0                       | 5-3-5         | 9-5-8 | 16-0-0 | 22-4-4     | , 26-0-10 | 30-6-0       | 35-3-0       | 1 42-0-0                                       | 47-9-4             | 49-5-0    | 54-0-0     | 55-6-0      |  |
| 1-6-0                        | 5-3-5         | 4-2-3 | 6-6-8  | 6-4-4      | 3-8-6     | 4-5-6        | 4-9-0        | 6-9-0  | 5-9-4              | 1-7-12    | 4-7-0      | 1-6-0       |  |

Scale = 1:99.1



|             | 1         | 9-5-8                       | 16-0-0             | 22-4-4                   | 30-6-0                | 35-3-0          | 42-0-0     |              | 47-9-4         | 49-5-0     | 54-0-0   |
|-------------|-----------|-----------------------------|--------------------|--------------------------|-----------------------|-----------------|------------|--------------|----------------|------------|----------|
|             | F         | 9-5-8                       | 6-6-8              | 6-4-4                    | 8-1-12                | 4-9-0           | 6-         | -9-0         | 5-9-4          | 1-7-12     | 4-7-0    |
| Plate Offse | ets (X,Y) | [8:0-2-0,0-1-4], [12:0-3-6, | 0-2-0], [14:0-2-0, | 0-3-8], [15:1-0-4,0-3-0] | , [15:0-3-4,0-0-4], [ | 19:0-4-0,0-4-8] | [20:0-5-4, | ,0-3-8], [24 | :0-5-4,0-3-12] |            |          |
| LOADING     | (psf)     | SPACING-                    | 2-0-0              | CSI.                     | DEFL.                 | in (loc)        | l/defl     | L/d          | PLAT           | ES         | GRIP     |
| TCLL        | 20.0      | Plate Grip DOL              | 1.25               | TC 0.40                  | Vert(LL)              | -0.10 21-22     | >999       | 240          | MT20           | -          | 244/190  |
| TCDL        | 7.0       | Lumber DOL                  | 1.25               | BC 0.38                  | Vert(CT)              | -0.22 21-22     | >999       | 180          |                |            |          |
| BCLL        | 0.0 *     | Rep Stress Incr             | YES                | WB 0.81                  | Horz(CT)              | 0.09 18         | n/a        | n/a          |                |            |          |
| BCDL        | 10.0      | Code FBC2023/T              | PI2014             | Matrix-MS                |                       |                 |            |              | Weigh          | nt: 447 lb | FT = 20% |

BRACING-

WEBS

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (5-2-5 max.).

1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing.

12-18

LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\*

15-16: 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2

WEBS 2x4 SP No.3

2x4 SP No.3 **OTHERS** 

REACTIONS. All bearings 0-3-8 except (jt=length) 24=0-5-8, 18=0-5-8.

(lb) -Max Horz 2=195(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) except 15=-180(LC 9), 2=-202(LC 26), 24=-654(LC 12), 18=-466(LC

Max Grav All reactions 250 lb or less at joint(s) 2 except 15=261(LC 26), 24=2439(LC 1), 18=1586(LC 1)

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

TOP CHORD 2-49=-259/963, 3-49=-253/1037, 3-4=-366/1380, 4-5=-906/228, 5-6=-825/239,

6-50=-1913/423, 7-50=-1781/425, 7-8=-1849/498, 8-9=-1728/606, 9-10=-1720/518,

10-11=-1625/533, 11-12=-1690/521

BOT CHORD 2-24=-888/240, 23-24=-1388/342, 22-23=-184/834, 21-22=-146/1412, 20-21=-285/1592,

19-20=-337/1481, 18-19=-337/1481

WEBS 3-24=-381/196, 4-24=-1674/515, 4-23=-470/2136, 6-23=-1111/316, 6-22=-96/990,

8-22=-230/766, 8-21=-370/594, 9-21=-275/181, 10-20=-403/87, 12-18=-1842/472, 13-18=-350/186

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C 49-5-0 to 55-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For stude exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 15, 202 lb uplift at joint 2, 654 lb uplift at joint 24 and 466 lb uplift at joint 18.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 65017

February 19,2024

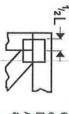
## LOAD CASE(S) Standard

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to properly personal injury and properly admage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



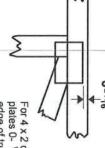
## Symbols

# 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- 1/15" from outside edge of truss.

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

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

## PLATE SIZE



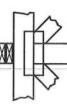
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



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

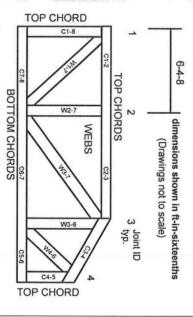
## Industry Standards: ANSI/TPI1: National E

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

DSB-22:

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# **Numbering System**



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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

# **General Safety Notes**

## Failure to Follow Could Cause Property Damage or Personal Injury

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