



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

RE: P06023-112727 - Nagle Residence

MiTek, Inc.

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

**Site Information:**

Customer Info: Jaron Nagle Project Name: . Model: Floor  
Lot/Block: . Subdivision: .  
Address: 351 NW Heritage Dr., .  
City: Lake City State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4  
Wind Code: ASCE 7-22 Wind Speed: 130 mph  
Roof Load: 41.0 psf Floor Load: N/A psf

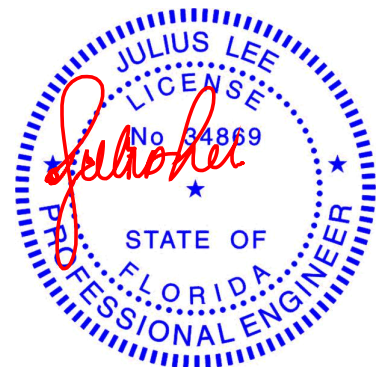
This package includes 10 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

| No. | Seal#     | Truss Name | Date    |
|-----|-----------|------------|---------|
| 1   | T41906475 | F1         | 7/19/26 |
| 2   | T41906476 | F2         | 7/19/26 |
| 3   | T41906477 | F3         | 7/19/26 |
| 4   | T41906478 | F4         | 7/19/26 |
| 5   | T41906479 | F5         | 7/19/26 |
| 6   | T41906480 | F6         | 7/19/26 |
| 7   | T41906481 | FE1        | 7/19/26 |
| 8   | T41906482 | FG1        | 7/19/26 |
| 9   | T41906483 | FG2        | 7/19/26 |
| 10  | T41906484 | FG3        | 7/19/26 |

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.  
under my direct supervision based on the parameters  
provided by 84 Lumber 1387 (Winter Haven, FL).

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

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



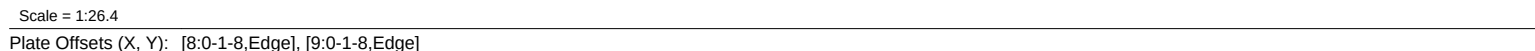
Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

July 20, 2026

Lee, Julius

1 of 1

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:57 Page: 1  
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|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| <b>LUMBER</b>    |                                                                                       |
| TOP CHORD        | 2x4 SP No.2(flat)                                                                     |
| BOT CHORD        | 2x4 SP No.2(flat)                                                                     |
| WEBS             | 2x4 SP No.2(flat)                                                                     |
| <b>BRACING</b>   |                                                                                       |
| 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.                                  |
| <b>REACTIONS</b> |                                                                                       |
| (size)           | 7= Mechanical, 10= Mechanical                                                         |
| Max Grav         | 7=506 (LC 1), 10=506 (LC 1)                                                           |
| <b>FORCES</b>    |                                                                                       |
|                  | (lb) - Maximum Compression/Maximum Tension                                            |
| TOP CHORD        | 1-10=-105/0, 6-7=-105/0, 1-2=0/0, 2-3=-606/0, 3-4=-606/0, 4-5=-606/0, 5-6=0/0         |
| BOT CHORD        | 9-10=0/524, 8-9=0/606, 7-8=0/524                                                      |
| WEBS             | 3-9=-219/0, 4-8=-219/0, 2-10=-651/0, 2-9=0/306, 5-7=-651/0, 5-8=0/306                 |

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-0" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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

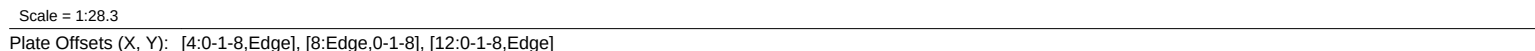
July 20, 2026



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DS-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Components Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

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|               |                   |                                                                                                                                                                                                               |
|---------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b> |                   | 7) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means. |
| TOP CHORD     | 2x4 SP No.2(flat) |                                                                                                                                                                                                               |
| BOT CHORD     | 2x4 SP No.2(flat) |                                                                                                                                                                                                               |
| WEBS          | 2x4 SP No.2(flat) |                                                                                                                                                                                                               |
| OTHERS        | 2x4 SP No.2(flat) | 8) CAUTION, Do not erect truss backwards.                                                                                                                                                                     |

|         |              |          |
|---------|--------------|----------|
| BRACING | LOAD CASE(S) | Standard |
|---------|--------------|----------|

| REACTIONS |            | (size) | 8=1-11-0, 9=1-11-0, 10=1-11-0, 13= |
|-----------|------------|--------|------------------------------------|
|           |            |        | Mechanical                         |
|           | Max Uplift |        | 8=58 (LC 7)                        |
|           | Max Grav   |        | 8=14 (LC 4), 9=266 (LC 7), 10=375  |
|           |            |        | (LC 1), 13=396 (LC 3)              |

|           |                                                                                               |
|-----------|-----------------------------------------------------------------------------------------------|
| FORCES    | (lb) - Maximum Compression/Maximum Tension                                                    |
| TOP CHORD | 1-13=-101/0, 7-8=0/31, 1-2=0/0, 2-3=-339/0,<br>3-4=-339/0, 4-5=0/0, 5-6=0/0, 6-7=0/0          |
| BOT CHORD | 12-13=0/366, 11-12=0/339, 10-11=0/339,<br>9-10=0/0, 8-9=0/0                                   |
| WEBS      | 3-12=-66/43, 4-11=0/132, 5-10=-66/81,<br>2-13=-454/0, 2-12=-76/90, 4-10=-573/0,<br>6-9=-189/0 |



## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint



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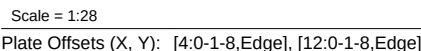
July 20,2026



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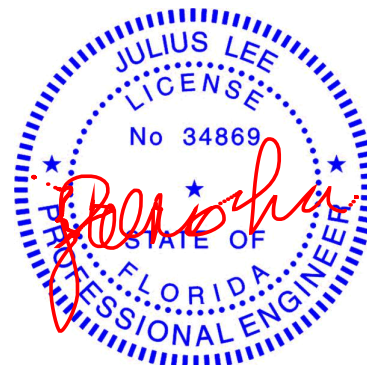


|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b>                              |                                                                                                                 |
| TOP CHORD                                  | 2x4 SP No.2(flat)                                                                                               |
| BOT CHORD                                  | 2x4 SP No.2(flat)                                                                                               |
| WEBS                                       | 2x4 SP No.2(flat)                                                                                               |
| <b>BRACING</b>                             |                                                                                                                 |
| 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.                                                            |
| <b>REACTIONS</b>                           |                                                                                                                 |
| (size)                                     | 8= Mechanical, 10=0-3-8, 13= Mechanical                                                                         |
| Max Grav                                   | 8=386 (LC 7), 10=433 (LC 8), 13=473 (LC 3)                                                                      |
| <b>FORCES</b>                              |                                                                                                                 |
| (lb) - Maximum Compression/Maximum Tension |                                                                                                                 |
| TOP CHORD                                  | 1-13=-104/0, 7-8=-375/0, 1-2=0/0, 2-3=-525/0, 3-4=-525/0, 4-5=-348/0, 5-6=-374/0, 6-7=-374/0                    |
| BOT CHORD                                  | 12-13=0/477, 11-12=0/525, 10-11=0/525, 9-10=0/348, 8-9=0/0                                                      |
| WEBS                                       | 3-12=-105/0, 4-11=0/41, 5-10=-178/73, 2-13=-592/0, 2-12=0/152, 4-10=-359/0, 7-9=0/461, 6-9=-284/0, 5-9=-116/190 |

## NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

LOAD CASE(S) Standard



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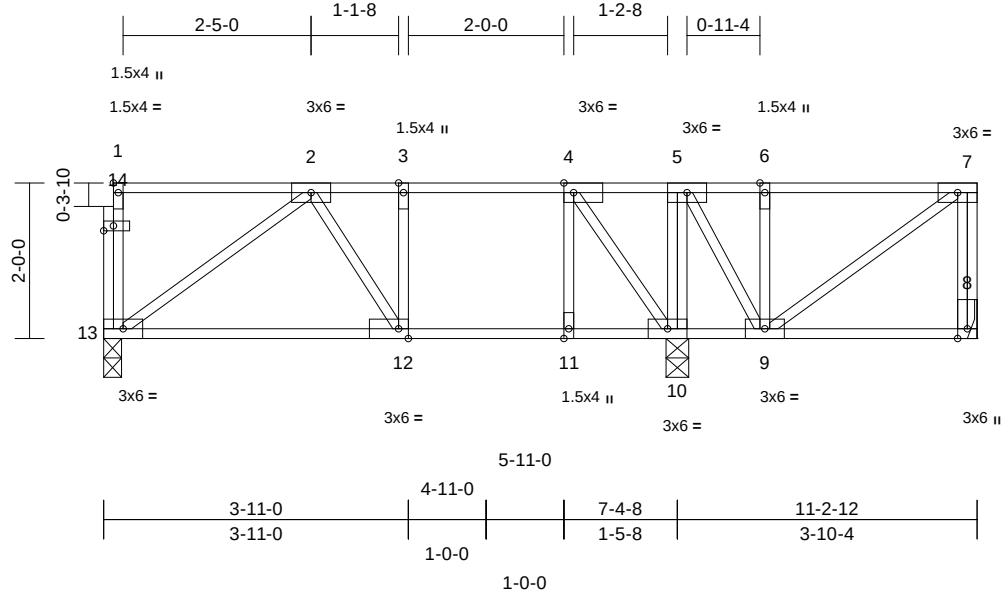
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|               |       |            |     |     |                          |
|---------------|-------|------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type | Qty | Ply | Nagle Residence          |
| P06023-112727 | F4    | Floor      | 2   | 1   | T41906478                |
|               |       |            |     |     | Job Reference (optional) |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

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Page: 1



Scale = 1:29.6

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

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.37 | Vert(LL) | -0.03 | 12-13 | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.26 | Vert(CT) | -0.05 | 12-13 | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.14 | Horz(CT) | 0.01  | 8     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 74 lb | FT = 20%F, 11%E |

#### LUMBER

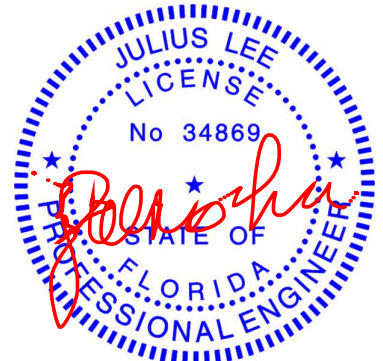
TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.2(flat)  
OTHERS 2x4 SP No.2(flat)

**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) 8= Mechanical, 10=0-3-8, 13=0-2-12  
Max Grav 8=406 (LC 7), 10=426 (LC 8), 13=485 (LC 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-13=-101/0, 7-8=-395/0, 1-2=-3/0, 2-3=-568/0, 3-4=-568/0, 4-5=-387/0, 5-6=-402/0, 6-7=-402/0  
BOT CHORD 12-13=0/498, 11-12=0/568, 10-11=0/568, 9-10=0/387, 8-9=0/0  
WEBS 3-12=-104/0, 4-11=0/43, 5-10=-169/94, 2-13=-615/0, 2-12=0/159, 4-10=-366/0, 7-9=0/495, 6-9=-284/0, 5-9=-138/183

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.



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

July 20,2026

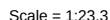
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

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| <b>Loading</b> | (psf) | <b>Spacing</b>  | 2-0-0           | <b>CSI</b> |      | <b>DEFL</b> | in    | (loc) | l/defl | L/d | <b>PLATES</b> | <b>GRIP</b>     |
|----------------|-------|-----------------|-----------------|------------|------|-------------|-------|-------|--------|-----|---------------|-----------------|
| TCLL           | 40.0  | Plate Grip DOL  | 1.00            | TC         | 0.43 | Vert(LL)    | -0.04 | 7-8   | >999   | 480 | MT20          | 244/190         |
| TCDL           | 10.0  | Lumber DOL      | 1.00            | BC         | 0.31 | Vert(CT)    | -0.05 | 7-8   | >999   | 360 |               |                 |
| BCLL           | 0.0   | Rep Stress Incr | YES             | WB         | 0.10 | Horz(CT)    | 0.00  | 5     | n/a    | n/a |               |                 |
| BCDL           | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S   |      |             |       |       |        |     | Weight: 46 lb | FT = 20%F, 11%E |

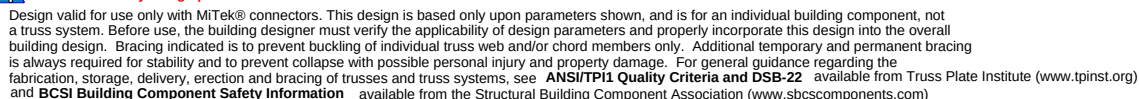
|           |                   |
|-----------|-------------------|
| TOP CHORD | 2x4 SP No.2(flat) |
| BOT CHORD | 2x4 SP No.2(flat) |
| WEBS      | 2x4 SP No.2(flat) |
| OTHERS    | 2x4 SP No.2(flat) |

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| 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.                                  |

|                  |                                                        |
|------------------|--------------------------------------------------------|
| <b>FORCES</b>    | (lb) - Maximum Compression/Maximum Tension             |
| <b>TOP CHORD</b> | 1-8=-115/0, 4-5=-115/0, 1-2=-4/0, 2-3=-383/0, 3-4=-4/0 |
| <b>BOT CHORD</b> | 7-8=0/383, 6-7=0/383, 5-6=0/383                        |
| <b>WEBS</b>      | 3-5=-467/0, 2-8=-467/0, 2-7=-17/66, 3-6=-17/66         |

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8, 5.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10'-00" oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

July 20, 2026



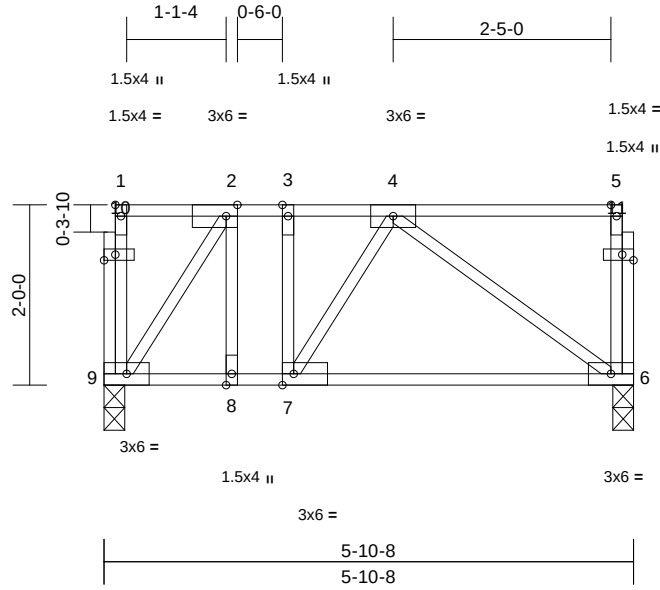
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|               |       |            |     |     |                          |
|---------------|-------|------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type | Qty | Ply | Nagle Residence          |
| P06023-112727 | F6    | Floor      | 2   | 1   | T41906480                |
|               |       |            |     |     | Job Reference (optional) |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:58  
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Page: 1



Scale = 1:25.6

Plate Offsets (X, Y): [1:Edge,0-0-12], [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-0-12], [11:0-1-8,0-0-12]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.35 | Vert(LL) | -0.01 | 6-7   | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.18 | Vert(CT) | -0.03 | 6-7   | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.07 | Horz(CT) | 0.00  | 6     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 43 lb | FT = 20%F, 11%E |

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.2(flat)  
OTHERS 2x4 SP No.2(flat)

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=0-2-12, 9=0-2-12  
Max Grav 6=303 (LC 1), 9=303 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-9=-45/14, 5-6=-99/0, 1-2=-2/0, 2-3=-193/0, 3-4=-193/0, 4-5=-3/0  
BOT CHORD 8-9=0/193, 7-8=0/193, 6-7=0/256  
WEBS 4-6=-314/0, 2-9=-339/0, 4-7=-139/16, 2-8=0/61, 3-7=0/107

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9, 6.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



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

July 20,2026

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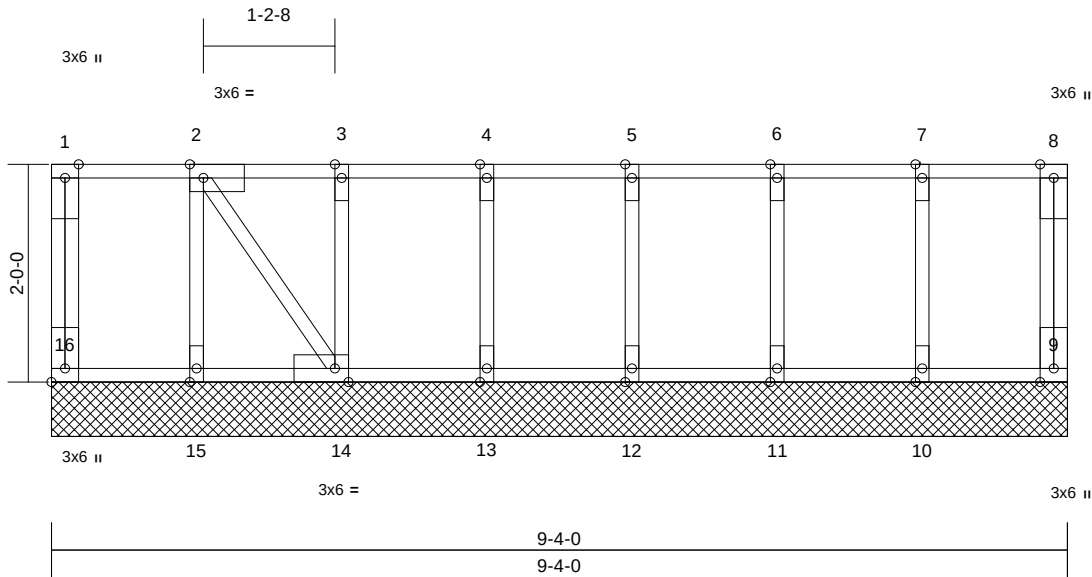
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

|               |       |                       |     |     |                          |
|---------------|-------|-----------------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type            | Qty | Ply | Nagle Residence          |
| P06023-112727 | FE1   | Floor Supported Gable | 1   | 1   | T41906481                |
|               |       |                       |     |     | Job Reference (optional) |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:58  
ID:KWaOCdIBFZieD0eqJRNHNWyxXYb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

Page: 1



Scale = 1:21.2

Plate Offsets (X, Y): [2:0-1-8,Edge], [14:0-1-8,Edge], [16:Edge,0-1-8]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      | DEFL | in        | (loc) | l/defl | L/d | PLATES | GRIP          |                 |
|---------|-------|-----------------|-----------------|----------|------|-----------|-------|--------|-----|--------|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.08 | Vert(LL)  | n/a   | -      | n/a | 999    | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.01 | Vert(TL)  | n/a   | -      | n/a | 999    |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | YES             | WB       | 0.02 | Horiz(TL) | 0.00  | 9      | n/a | n/a    |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |           |       |        |     |        | Weight: 57 lb | FT = 20%F, 11%E |

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.2(flat)  
OTHERS 2x4 SP No.2(flat)

#### BRACING

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

**REACTIONS** (size) 9=9-4-0, 10=9-4-0, 11=9-4-0,  
12=9-4-0, 13=9-4-0, 14=9-4-0,  
15=9-4-0, 16=9-4-0  
Max Grav 9=52 (LC 1), 10=156 (LC 1),  
11=145 (LC 1), 12=147 (LC 1),  
13=147 (LC 1), 14=145 (LC 1),  
15=156 (LC 1), 16=52 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum  
Tension  
TOP CHORD 1-16=-47/0, 8-9=-47/0, 1-2=0/0, 2-3=0/0,  
3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0  
BOT CHORD 15-16=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0,  
11-12=0/0, 10-11=0/0, 9-10=0/0  
WEBS 2-15=-142/0, 3-14=-132/0, 4-13=-134/0,  
5-12=-134/0, 6-11=-132/0, 7-10=-142/0,  
2-14=0/0

#### NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) All plates are 1.5x4 (I) MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



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

July 20,2026

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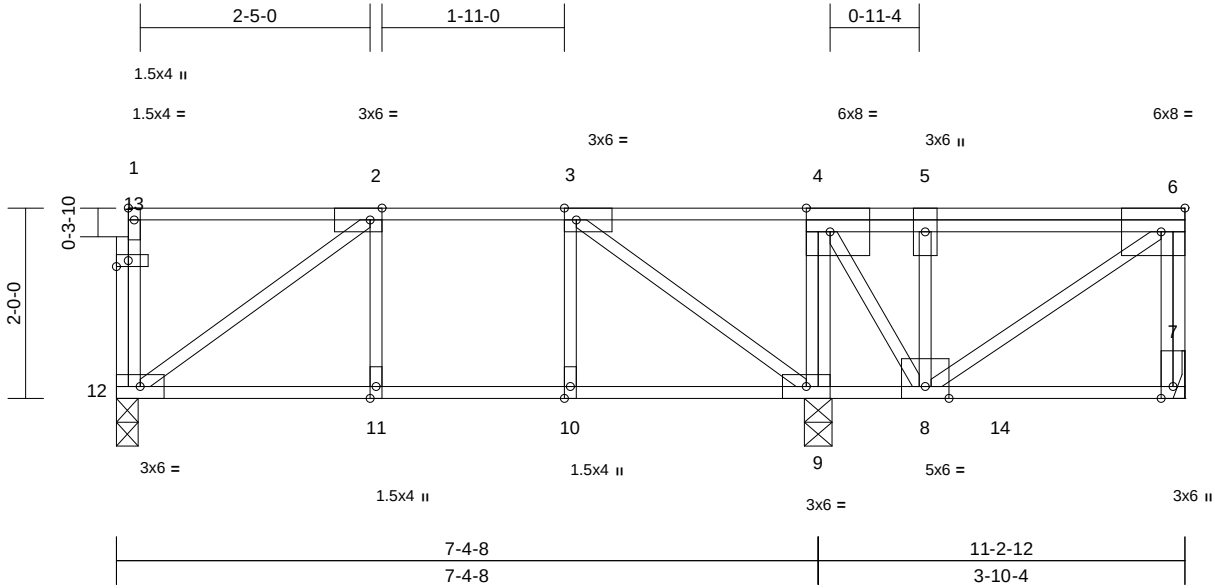
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|               |       |              |     |     |                          |
|---------------|-------|--------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type   | Qty | Ply | Nagle Residence          |
| P06023-112727 | FG1   | Floor Girder | 1   | 1   | T41906482                |
|               |       |              |     |     | Job Reference (optional) |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:58  
ID:U9tQkWNy7o1yXeKP??P48EyxXTL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwRcDoi7J4zJC?f

Page: 1



Scale = 1:24.2

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

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.73 | Vert(LL) | -0.04 | 7-8   | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.63 | Vert(CT) | -0.06 | 7-8   | >769   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.38 | Horz(CT) | 0.00  | 7     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 77 lb | FT = 20%F, 11%E |

|                                            |                                                                                                |  |
|--------------------------------------------|------------------------------------------------------------------------------------------------|--|
| <b>LUMBER</b>                              |                                                                                                |  |
| TOP CHORD                                  | 2x4 SP No.2(flat)                                                                              |  |
| BOT CHORD                                  | 2x4 SP No.2(flat)                                                                              |  |
| WEBS                                       | 2x4 SP No.2(flat)                                                                              |  |
| OTHERS                                     | 2x4 SP No.2(flat)                                                                              |  |
| <b>BRACING</b>                             |                                                                                                |  |
| TOP CHORD                                  | Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.          |  |
| BOT CHORD                                  | Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.            |  |
| <b>REACTIONS</b>                           |                                                                                                |  |
| (size)                                     | 7= Mechanical, 9=0-3-8, 12=0-2-12                                                              |  |
| Max Grav                                   | 7=1159 (LC 7), 9=1594 (LC 8), 12=394 (LC 7)                                                    |  |
| <b>FORCES</b>                              |                                                                                                |  |
| (lb) - Maximum Compression/Maximum Tension |                                                                                                |  |
| TOP CHORD                                  | 1-12=-107/0, 6-7=-1104/0, 1-2=-4/0, 2-3=-382/0, 3-4=-156/185, 4-5=-794/0, 5-6=-794/0           |  |
| BOT CHORD                                  | 11-12=0/382, 10-11=0/382, 9-10=0/382, 8-9=-182/156, 7-8=0/0                                    |  |
| WEBS                                       | 4-9=-1373/0, 3-9=-617/0, 2-12=-467/0, 2-11=0/25, 3-10=0/43, 6-8=0/968, 5-8=-1295/0, 4-8=0/1356 |  |

**LOAD CASE(S)** Standard  
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 7-12=-10, 1-4=-100, 4-6=-506  
Concentrated Loads (lb)  
Vert: 14=-235

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
  - 3) Refer to girder(s) for truss to truss connections.
  - 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.



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

July 20,2026

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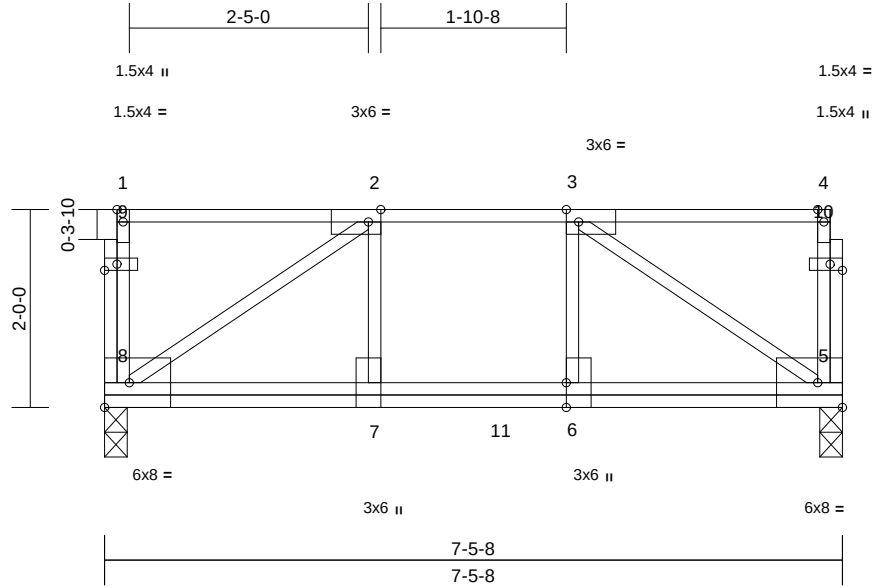
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|               |       |              |     |     |                          |
|---------------|-------|--------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type   | Qty | Ply | Nagle Residence          |
| P06023-112727 | FG2   | Floor Girder | 1   | 1   | Job Reference (optional) |
|               |       |              |     |     | T41906483                |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:58  
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Page: 1



Scale = 1:23.3

Plate Offsets (X, Y): [1:Edge,0-0-12], [2:0-1-8,Edge], [3:0-1-8,Edge], [6:0-3-0,Edge], [9:0-1-8,0-0-12], [10:0-1-8,0-0-12]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.60 | Vert(LL) | -0.08 | 7-8   | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.85 | Vert(CT) | -0.10 | 7-8   | >845   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.24 | Horz(CT) | 0.00  | 5     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 56 lb | FT = 20%F, 11%E |

#### LUMBER

TOP CHORD 2x4 SP No.2(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.2(flat)  
OTHERS 2x4 SP No.2(flat)

#### 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) 5=0-2-12, 8=0-2-12  
Max Grav 5=697 (LC 1), 8=1226 (LC 1)

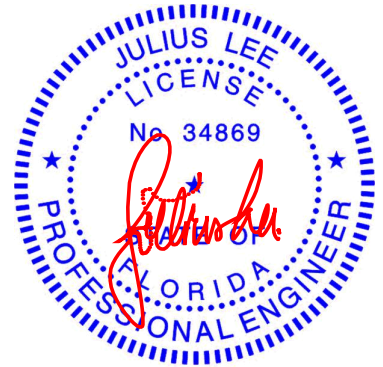
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-8=-126/0, 4-5=-99/3, 1-2=0/0, 2-3=-961/0, 3-4=0/0  
BOT CHORD 7-8=0/979, 6-7=0/961, 5-6=0/958  
WEBS 3-5=-1153/0, 2-8=-1153/0, 2-7=0/457, 3-6=0/396

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8, 5.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 8-11=-310, 5-11=-10, 1-4=-100



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

July 20,2026

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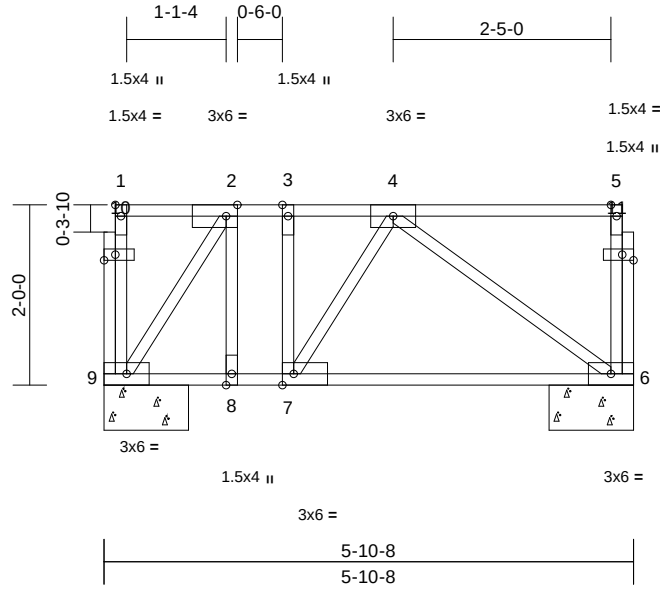
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|               |       |              |     |     |                          |
|---------------|-------|--------------|-----|-----|--------------------------|
| Job           | Truss | Truss Type   | Qty | Ply | Nagle Residence          |
| P06023-112727 | FG3   | Floor Girder | 1   | 1   | T41906484                |
|               |       |              |     |     | Job Reference (optional) |

84 Lumber-1387 (Winter Haven, FL), Winter Haven, FL - 33880,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 17 13:36:59  
ID:OYHUzmfR9MOWFxRnCGIxQbyxXRh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:25.6

Plate Offsets (X, Y): [1:Edge,0-0-12], [2:0-1-8,Edge], [7:0-1-8,Edge], [10:0-1-8,0-0-12], [11:0-1-8,0-0-12]

| Loading | (psf) | Spacing         | 2-0-0           | CSI      |      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP            |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL    | 40.0  | Plate Grip DOL  | 1.00            | TC       | 0.89 | Vert(LL) | -0.04 | 6-7   | >999   | 480 | MT20          | 244/190         |
| TCDL    | 10.0  | Lumber DOL      | 1.00            | BC       | 0.48 | Vert(CT) | -0.06 | 6-7   | >999   | 360 |               |                 |
| BCLL    | 0.0   | Rep Stress Incr | NO              | WB       | 0.19 | Horz(CT) | 0.01  | 6     | n/a    | n/a |               |                 |
| BCDL    | 5.0   | Code            | FBC2023/TPI2014 | Matrix-S |      |          |       |       |        |     | Weight: 43 lb | FT = 20%F, 11%E |

#### LUMBER

TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.2(flat)  
WEBS 2x4 SP No.2(flat)  
OTHERS 2x4 SP No.2(flat)

#### BRACING

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (size) 6=0-11-4, 9=0-11-4  
Max Grav 6=853 (LC 1), 9=853 (LC 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-144/26, 5-6=-299/0, 1-2=-5/1,  
2-3=-536/0, 3-4=-536/0, 4-5=-10/0

BOT CHORD 8-9=0/536, 7-8=0/536, 6-7=0/733

WEBS 4-6=-899/0, 2-9=-940/0, 4-7=-429/10,  
2-8=0/159, 3-7=0/273

#### NOTES

- Unbalanced floor live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00,  
Plate Increase=1.00  
Uniform Loads (lb/ft)  
Vert: 6-9=-10, 1-5=-300



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

July 20,2026

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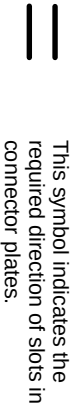
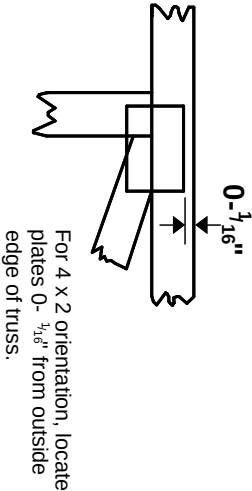
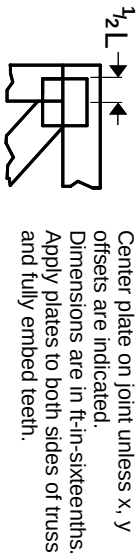
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# Symbols

## PLATE LOCATION AND ORIENTATION



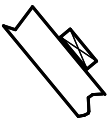
\* Plate location details available in MITek software or upon request.

## PLATE SIZE

**4 X 4**

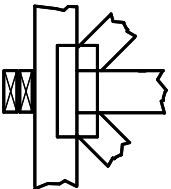
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

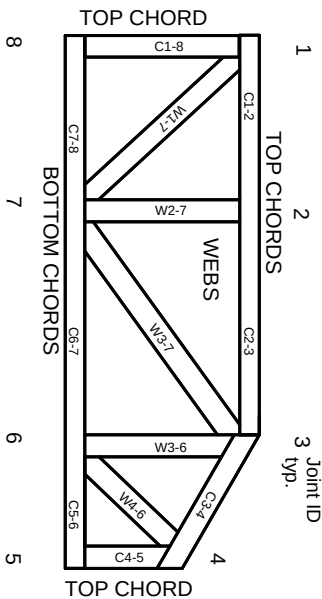
## BEARING



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

**Industry Standards:**  
ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:  
ESR-1988, ESR-2362, ESR-2685, ESR-3282  
ESR-4722, ESL-1388

## Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.  
Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/12/2023

# General Safety Notes

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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.