



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

RE: 1655-A - Spec Lt 4

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

**Site Information:**

Customer Info: CJ Custom Carpentry Inc. Project Name: Spec Lt4 Model: .  
Lot/Block: . Subdivision: .  
Address: 493 SW Legion Drive, .  
City: Lake City State: FL

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

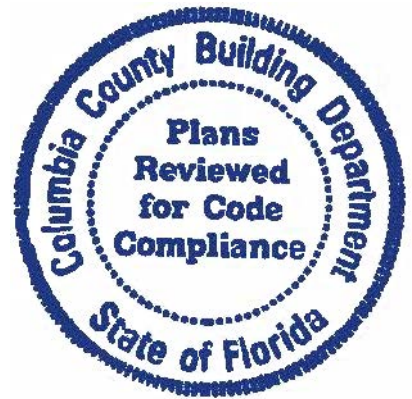
Name: License #:  
Address:  
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8  
Wind Code: ASCE 7-22 Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 23 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

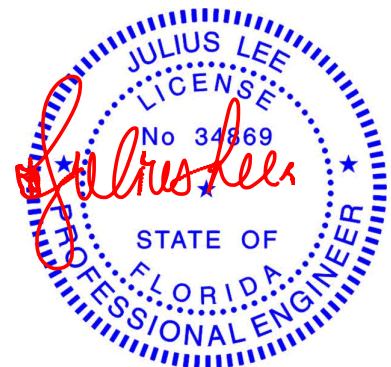
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35088399	G1	9/24/24	23	T35088421	V8	9/24/24
2	T35088400	G2	9/24/24				
3	T35088401	G3	9/24/24				
4	T35088402	GR1	9/24/24				
5	T35088403	PB1	9/24/24				
6	T35088404	T1	9/24/24				
7	T35088405	T2	9/24/24				
8	T35088406	T3	9/24/24				
9	T35088407	T4	9/24/24				
10	T35088408	T5	9/24/24				
11	T35088409	T6	9/24/24				
12	T35088410	T7	9/24/24				
13	T35088411	T8	9/24/24				
14	T35088412	T9	9/24/24				
15	T35088413	T10	9/24/24				
16	T35088414	V1	9/24/24				
17	T35088415	V2	9/24/24				
18	T35088416	V3	9/24/24				
19	T35088417	V4	9/24/24				
20	T35088418	V5	9/24/24				
21	T35088419	V6	9/24/24				
22	T35088420	V7	9/24/24				



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.  
under my direct supervision based on the parameters  
provided by 19 Lumber, Inc..

Truss Design Engineer's Name: Lee, Julius  
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.



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

September 24, 2024

Lee, Julius

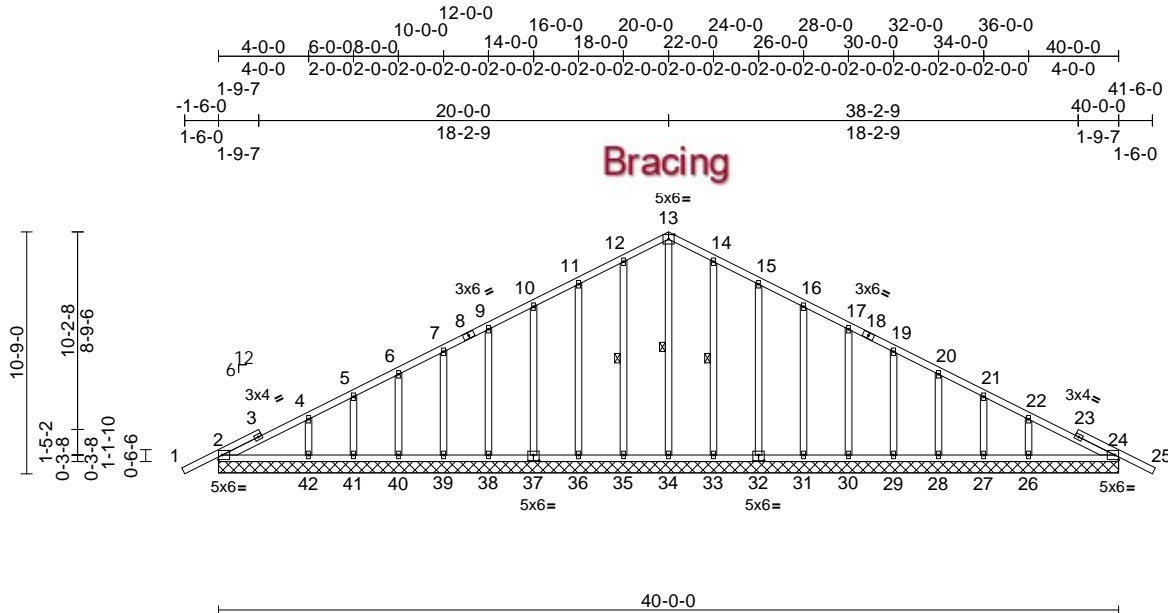
1 of 1

Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088399
1655-A	G1	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:39  
ID:Y77ZAvTKOf1aV0jqcZydyUcMN\_-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:85.9

Plate Offsets (X, Y): [32:0-3-0,0-3-0], [37:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	24	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 274 lb FT = 20%

#### LUMBER

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

#### BRACING

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

WEBS 1 Row at midpt 13-34, 12-35, 14-33

REACTIONS (size) 2=40-0-0, 24=40-0-0, 26=40-0-0, 27=40-0-0, 28=40-0-0, 29=40-0-0, 30=40-0-0, 31=40-0-0, 32=40-0-0, 33=40-0-0, 34=40-0-0, 35=40-0-0, 36=40-0-0, 37=40-0-0, 38=40-0-0, 39=40-0-0, 40=40-0-0, 41=40-0-0, 42=40-0-0, 43=40-0-0, 46=40-0-0

Max Horiz 2=174 (LC 12), 43=174 (LC 12)  
Max Uplift 2=31 (LC 13), 24=21 (LC 13), 26=89 (LC 13), 27=44 (LC 13), 28=60 (LC 13), 29=56 (LC 13), 30=57 (LC 13), 31=56 (LC 13), 32=61 (LC 13), 33=50 (LC 13), 35=53 (LC 12), 36=59 (LC 12), 37=56 (LC 12), 38=57 (LC 12), 39=56 (LC 12), 40=59 (LC 12), 41=45 (LC 12), 42=87 (LC 12), 43=31 (LC 13), 46=21 (LC 13)

Max Grav 2=253 (LC 1), 24=253 (LC 1), 26=281 (LC 1), 27=113 (LC 26), 28=172 (LC 1), 29=157 (LC 1), 30=161 (LC 26), 31=160 (LC 1), 32=159 (LC 26), 33=168 (LC 26), 34=208 (LC 22), 35=168 (LC 25), 36=159 (LC 25), 37=160 (LC 1), 38=161 (LC 25), 39=157 (LC 1), 40=172 (LC 1), 41=113 (LC 25), 42=281 (LC 1), 43=253 (LC 1), 46=253 (LC 1)

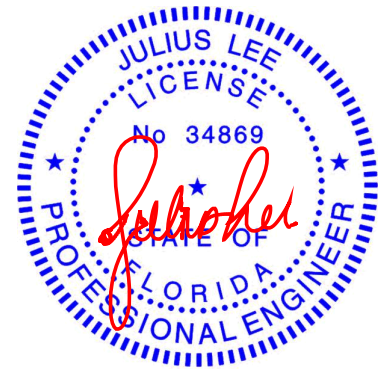
#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-4=-200/94, 4-5=-140/94, 5-6=-105/110, 6-7=-74/128, 7-9=-57/153, 9-10=-63/177, 10-11=-81/219, 11-12=-100/272, 12-13=-118/319, 13-14=-118/319, 14-15=-100/272, 15-16=-81/219, 16-17=-63/168, 17-19=-45/117, 19-20=-32/66, 20-21=-39/41, 21-22=-70/24, 22-24=-143/63, 24-25=0/42  
BOT CHORD 2-42=-61/184, 41-42=-61/184, 40-41=-61/184, 39-40=-61/184, 38-39=-61/184, 36-38=-61/184, 35-36=-61/184, 34-35=-61/184, 33-34=-61/184, 31-33=-61/184, 30-31=-61/184, 29-30=-61/184, 28-29=-61/184, 27-28=-61/184, 26-27=-61/184, 24-26=-61/184  
WEBS 13-34=-200/47, 12-35=-128/84, 11-36=-119/100, 10-37=-120/93, 9-38=-120/95, 7-39=-119/94, 6-40=-127/98, 5-41=-92/83, 4-42=-198/136, 14-33=-128/84, 15-32=-119/100, 16-31=-120/93, 17-30=-120/95, 19-29=-119/94, 20-28=-127/98, 21-27=-92/83, 22-26=-198/135

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.



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

September 24, 2024

Continued on page 2

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

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

**MiTek®**

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

Job	Truss	Truss Type	Qty	Ply	Spec Lt 4
1655-A	G1	Common Supported Gable	1	1	T35088399
Job Reference (optional)					

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2, 21 lb uplift at joint 24, 53 lb uplift at joint 35, 59 lb uplift at joint 36, 56 lb uplift at joint 37, 57 lb uplift at joint 38, 56 lb uplift at joint 39, 59 lb uplift at joint 40, 45 lb uplift at joint 41, 87 lb uplift at joint 42, 50 lb uplift at joint 33, 61 lb uplift at joint 32, 56 lb uplift at joint 31, 57 lb uplift at joint 30, 56 lb uplift at joint 29, 60 lb uplift at joint 28, 44 lb uplift at joint 27, 89 lb uplift at joint 26, 31 lb uplift at joint 2 and 21 lb uplift at joint 24.

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.**

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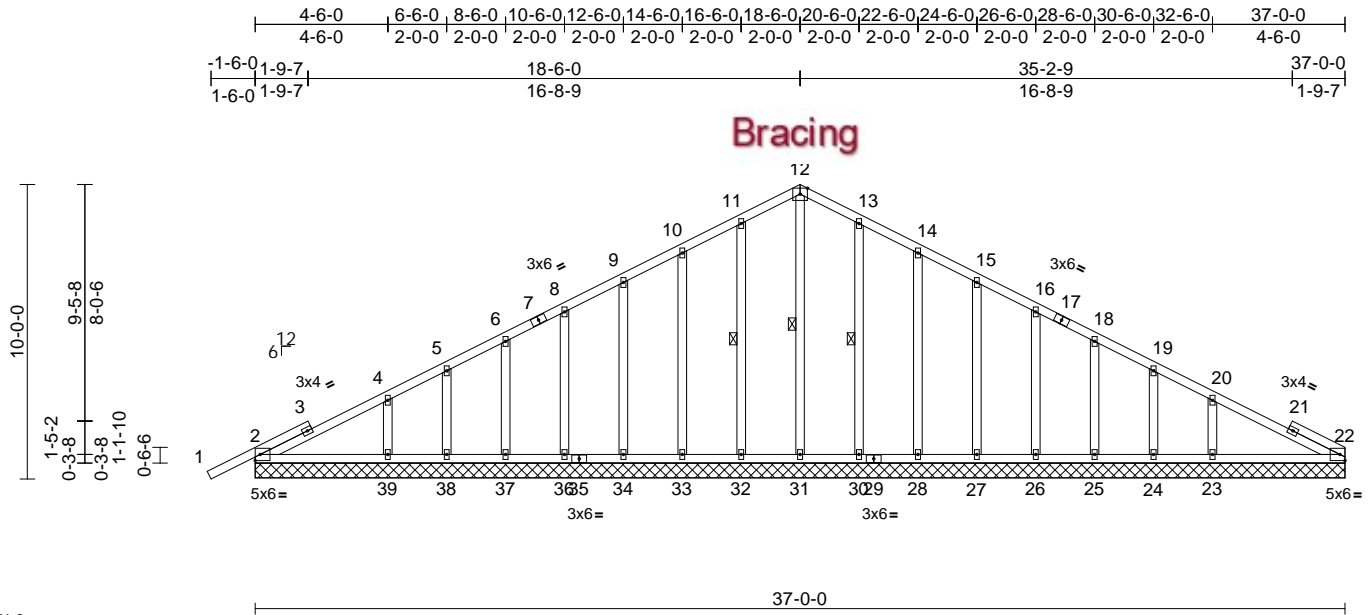
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088400
1655-A	G2	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:40

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Scale = 1:71.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TOP CHORD	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	22	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 240 lb FT = 20%											

#### LUMBER

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

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 12-31, 11-32, 13-30

REACTIONS	(size) 2=37-0-0, 22=37-0-0, 23=37-0-0, 24=37-0-0, 25=37-0-0, 26=37-0-0, 27=37-0-0, 28=37-0-0, 30=37-0-0, 31=37-0-0, 32=37-0-0, 33=37-0-0, 34=37-0-0, 36=37-0-0, 37=37-0-0, 38=37-0-0, 39=37-0-0, 40=37-0-0, 43=37-0-0
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Max Horiz	2=175 (LC 12), 40=175 (LC 12)
Max Uplift	2=27 (LC 13), 23=122 (LC 13), 24=28 (LC 13), 25=63 (LC 13), 26=55 (LC 13), 27=56 (LC 13), 28=60 (LC 13), 30=52 (LC 13), 32=55 (LC 12), 33=59 (LC 12), 34=56 (LC 12), 36=56 (LC 12), 37=61 (LC 12), 38=36 (LC 12), 39=104 (LC 12), 40=27 (LC 13)

Max Grav	2=263 (LC 25), 22=148 (LC 26), 23=363 (LC 26), 24=70 (LC 1), 25=182 (LC 26), 26=155 (LC 26), 27=161 (LC 1), 28=158 (LC 26), 30=168 (LC 26), 31=197 (LC 22), 32=168 (LC 25), 33=159 (LC 25), 34=161 (LC 1), 36=156 (LC 25), 37=178 (LC 1), 38=88 (LC 1), 39=328 (LC 25), 40=263 (LC 25), 43=148 (LC 26)
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FORCES	(lb) - Maximum Compression/Maximum Tension
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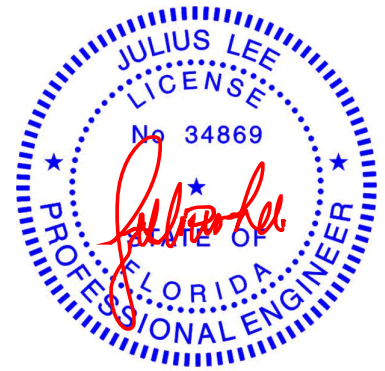
TOP CHORD	1-2=0/42, 2-4=-188/97, 4-5=-118/81, 5-6=-87/98, 6-8=-57/120, 8-9=-46/145, 9-10=-64/170, 10-11=-83/223, 11-12=-100/271, 12-13=-100/271, 13-14=-83/223, 14-15=-64/170, 15-16=-46/119, 16-18=-29/68, 18-19=-25/45, 19-20=-65/19, 20-22=-125/67
BOT CHORD	2-39=-52/146, 38-39=-52/146, 37-38=-52/146, 36-37=-52/146, 34-36=-52/146, 33-34=-52/146, 32-33=-52/146, 31-32=-52/146, 30-31=-52/146, 28-30=-52/146, 27-28=-52/146, 26-27=-52/146, 25-26=-52/146, 24-25=-52/146, 23-24=-52/146, 22-23=-52/146
WEBS	12-31=-161/33, 11-32=-128/87, 10-33=-119/99, 9-34=-121/94, 8-36=-118/94, 6-37=-130/100, 5-38=-76/74, 4-39=-229/156, 13-30=-128/87, 14-28=-119/99, 15-27=-121/94, 16-26=-117/93, 18-25=-132/101, 19-24=-68/65, 20-23=-247/168

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 55 lb uplift at joint 32, 59 lb uplift at joint 33, 56 lb uplift at joint 34, 56 lb uplift at joint 36, 61 lb uplift at joint 37, 36 lb uplift at joint 38, 104 lb uplift at joint 39, 52 lb uplift at joint 30, 60 lb uplift at joint 28, 56 lb uplift at joint 27, 55 lb uplift at joint 26, 63 lb uplift at joint 25, 28 lb uplift at joint 24, 122 lb uplift at joint 23 and 27 lb uplift at joint 2.

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:

September 24,2024

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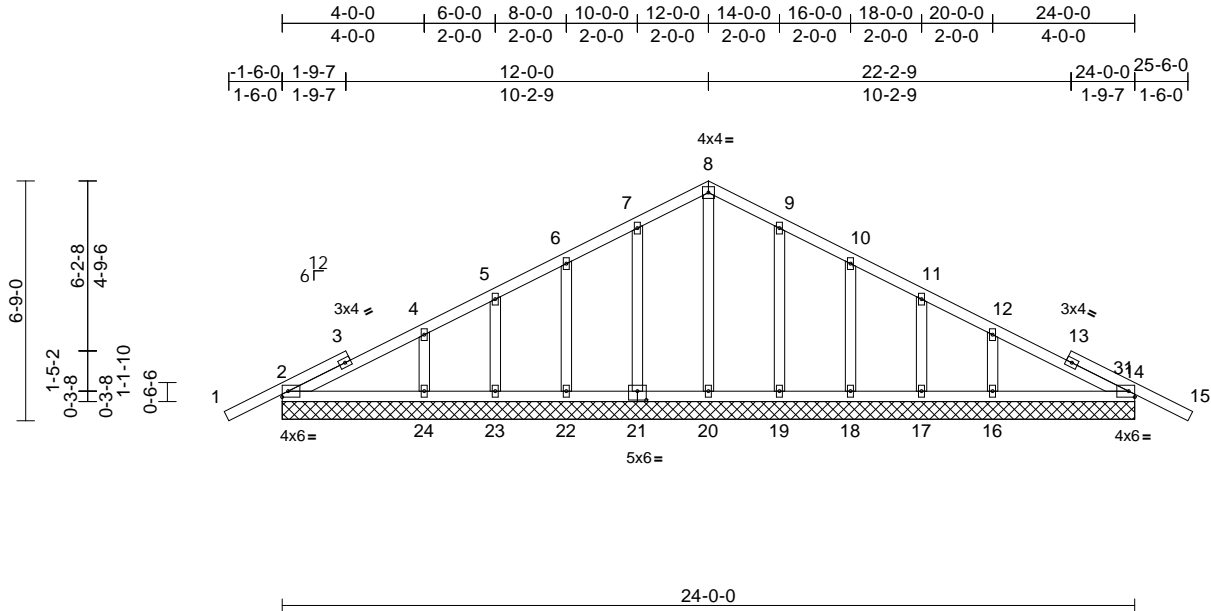


Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088401
1655-A	G3	Common Supported Gable	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Page: 1



Scale = 1:58.7												
Plate Offsets (X, Y): [21:0-3-0,0-3-0]												
<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 (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 132 lb	FT = 20%

**LUMBER**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.2  
**BRACING**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (size) 2=24-0-0, 14=24-0-0, 16=24-0-0, 17=24-0-0, 18=24-0-0, 19=24-0-0, 20=24-0-0, 21=24-0-0, 22=24-0-0, 23=24-0-0, 24=24-0-0, 25=24-0-0, 28=24-0-0  
Max Horiz 2=108 (LC 12), 25=108 (LC 12)  
Max Uplift 2=30 (LC 12), 14=48 (LC 13), 16=91 (LC 13), 17=43 (LC 13), 18=61 (LC 13), 19=57 (LC 13), 21=58 (LC 12), 22=60 (LC 12), 23=43 (LC 12), 24=90 (LC 12), 25=30 (LC 12), 28=48 (LC 13)  
Max Grav 2=251 (LC 25), 14=239 (LC 26), 16=280 (LC 26), 17=114 (LC 26), 18=170 (LC 1), 19=166 (LC 26), 20=169 (LC 22), 21=166 (LC 25), 22=170 (LC 1), 23=113 (LC 25), 24=281 (LC 25), 25=251 (LC 25), 28=239 (LC 26)

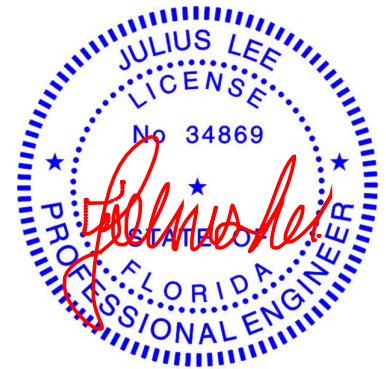
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-4=118/81, 4-5=62/75, 5-6=37/97, 6-7=51/133, 7-8=70/183, 8-9=70/183, 9-10=51/133, 10-11=31/80, 11-12=37/34, 12-14=119/59, 14-15=0/42

**BOT CHORD** 2-24=45/122, 23-24=39/122, 22-23=39/122, 20-22=39/122, 19-20=39/122, 18-19=39/122, 17-18=39/122, 16-17=39/122, 14-16=47/133  
**WEBS** 8-20=128/8, 7-21=128/93, 6-22=125/100, 5-23=92/82, 4-24=198/138, 9-19=128/93, 10-18=125/99, 11-17=92/82, 12-16=198/138

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 (||) MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 48 lb uplift at joint 14, 58 lb uplift at joint 21, 60 lb uplift at joint 22, 43 lb uplift at joint 23, 90 lb uplift at joint 24, 57 lb uplift at joint 19, 61 lb uplift at joint 18, 43 lb uplift at joint 17, 91 lb uplift at joint 16, 30 lb uplift at joint 2 and 48 lb uplift at joint 14.

**LOAD CASE(S)** Standard



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

September 24,2024

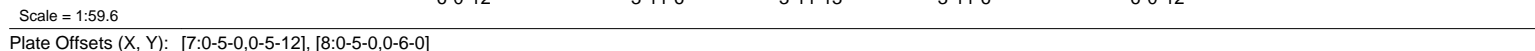
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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:41 Page: 1  
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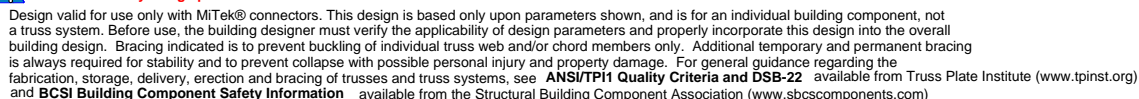
<b>LUMBER</b>		4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP 2400F 2.0E	5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
BOT CHORD	2x8 SP DSS	6) All plates are MT20 plates unless otherwise indicated.
WEBS	2x4 SP No.2	7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
<b>BRACING</b>		8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins.	9) WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	10) All bearings are assumed to be SP DSS .
<b>REACTIONS</b>	(size) 1=0-4-0, (req. 0-4-14), 5=0-4-0, (req. 0-4-14)	11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1568 lb uplift at joint 1 and 1577 lb uplift at joint 5.
	Max Horiz 1=100 (LC 8)	12) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc
	Max Uplift 1=-1568 (LC 8), 5=-1577 (LC 9)	
	Max Grav 1=9626 (LC 2), 5=9684 (LC 2)	
<b>FORCES</b>		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-17389/2828, 2-3=-13634/2242, 3-4=-13624/2240, 4-5=-17366/2826	
BOT CHORD	1-9=-2553/15519, 7-9=-2481/15037, 6-7=-2379/15020, 5-6=-2451/15499	
WEBS	4-6=-607/4053, 2-9=-609/4074, 3-8=-1038/6238, 2-8=-3939/772, 3-7=-1037/6230, 4-7=-3923/770	

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-6-0 oc.  
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.  
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.

1) Dead + Roof Live (balanced): Lumber Increase=1.25,  
Plate Increase=1.25  
Uniform Loads (lb/ft)  
Vert: 1-3=-60, 3-5=-60, 10-13=-20  
Concentrated Loads (lb)  
Vert: 6=-1458 (F), 9=-1458 (F), 8=-1458 (F), 7=-1458  
(F), 16=-1458 (F), 17=-1458 (F), 18=-1458 (F),  
19=-1458 (F), 20=-1458 (F), 21=-1458 (F), 22=-1458  
(F)



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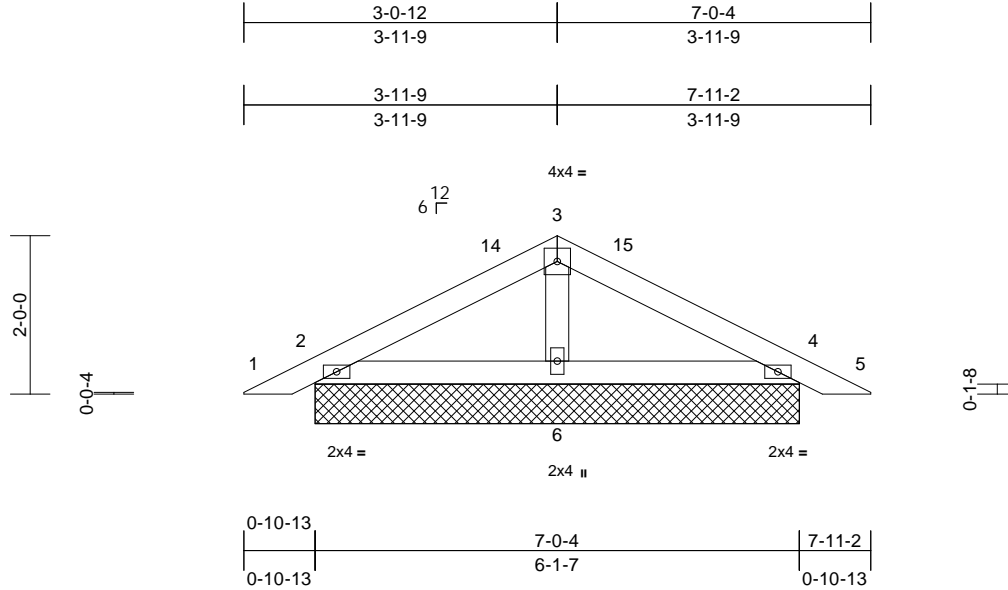
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	PB1	Piggyback	17	1	Job Reference (optional)	T35088403

19 Lumber, Inc., Old Town, FL - 32680,

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Scale = 1:20.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 24 lb FT = 20%

#### LUMBER

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

#### BRACING

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

<b>REACTIONS</b> (size)	2=6-1-7, 4=6-1-7, 6=6-1-7, 7=6-1-7, 11=6-1-7
Max Horiz	2=31 (LC 12), 7=31 (LC 12)
Max Uplift	2=45 (LC 12), 4=51 (LC 13), 6=20 (LC 12), 7=45 (LC 12), 11=51 (LC 13)
Max Grav	2=163 (LC 1), 4=163 (LC 1), 6=235 (LC 1), 7=163 (LC 1), 11=163 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/16, 2-3=-71/103, 3-4=-71/93, 4-5=0/16
BOT CHORD	2-6=-12/39, 4-6=-15/39
WEBS	3-6=-111/71

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-0-1, Zone3 4-0-1 to 7-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2, 51 lb uplift at joint 4, 20 lb uplift at joint 6, 45 lb uplift at joint 2 and 51 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

**LOAD CASE(S)** Standard



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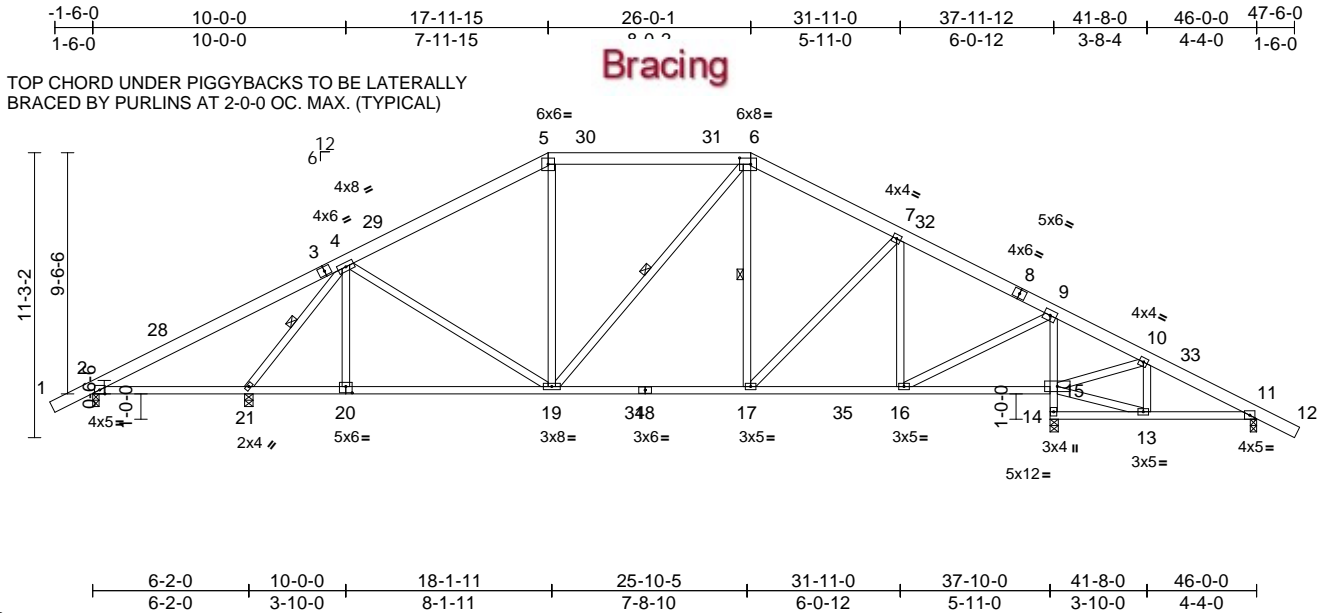
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Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088404
1655-A	T1	Piggyback Base	5	1	Job Reference (optional)	

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.06	21-24	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.21	17-19	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	14	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 318 lb FT = 20%											

<b>LUMBER</b>		
TOP CHORD	2x6 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 5-8-8 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
WEBS	1 Row at midpt	4-21, 6-19, 6-17
<b>REACTIONS</b> (size)		
	2=0-3-0, 11=0-3-0, 14=0-4-0, 21=0-4-0	
	Max Horiz	2=-203 (LC 13)
	Max Uplift	2=-125 (LC 12), 11=-127 (LC 13), 14=-244 (LC 13), 21=-193 (LC 12)
	Max Grav	2=397 (LC 25), 11=348 (LC 26), 14=1885 (LC 2), 21=1610 (LC 2)
<b>FORCES</b> (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/43, 2-4=-112/257, 4-5=-1410/307, 5-6=-1167/318, 6-7=-1354/308, 7-9=-1265/250, 9-10=0/298, 10-11=-207/114, 11-12=0/43	
BOT CHORD	2-21=-88/119, 19-21=-207/1036, 17-19=-17/1154, 16-17=-38/1068, 15-16=-198/84, 14-15=-1830/260, 9-15=-1567/247, 13-14=-31/0, 11-13=-22/155	
WEBS	4-21=-1754/244, 4-20=0/237, 4-19=-26/279, 5-19=-15/283, 6-19=-101/163, 6-17=-41/284, 7-17=-46/203, 7-16=-458/116, 9-16=-115/1426, 10-13=0/137, 13-15=-15/179, 10-15=-366/113	

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-4 to 3-0-0, Zone1 3-0-0 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 244 lb uplift at joint 14, 127 lb uplift at joint 11 and 193 lb uplift at joint 21.

LOAD CASE(S) Standard



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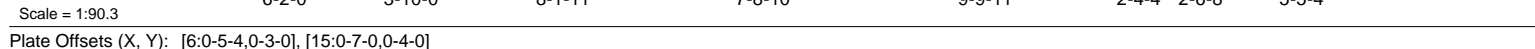
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<b>LUMBER</b>		2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x6 SP No.2	Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat.
BOT CHORD	2x4 SP No.2	II; Exp B; Enclosed; MWFRS (envelope) exterior (2)
WEBS	2x4 SP No.2	zone and C-C Zone3 -1-7-4 to 3-0-0, Zone1 3-0-0 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
<b>BRACING</b>		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.
TOP CHORD	Structural wood sheathing directly applied or 5-11-12 oc purlins.	4) Provide adequate drainage to prevent water ponding.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 6-18, 6-16, 4-21, 4-18	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
<b>REACTIONS</b>	(size) 2=0-3-0, 10=0-3-0, 13=0-3-8, 14=2-6-0, 21=0-4-0	7) All bearings are assumed to be SP No.2 .
	Max Horiz 2=-203 (LC 13)	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 256 lb uplift at joint 14, 150 lb uplift at joint 10 and 187 lb uplift at joint 21.
	Max Uplift 2=-125 (LC 12), 10=-150 (LC 13), 14=-256 (LC 13), 21=-187 (LC 12)	
	Max Grav 2=412 (LC 25), 10=471 (LC 26), 13=88 (LC 3), 14=1724 (LC 2), 21=1492 (LC 2)	
<b>FORCES</b>		<b>LOAD CASE(S)</b> Standard
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/43, 2-4=-141/214, 4-5=-1286/296, 5-6=-1055/308, 6-7=-1225/269, 7-9=-74/109, 9-10=-395/149, 10-11=0/43	
BOT CHORD	2-21=-88/115, 19-21=-204/996, 18-19=-204/996, 16-18=-15/990, 15-16=-15/87, 14-15=-1695/265, 7-15=-1329/273, 13-14=-111/0, 12-13=-111/0, 10-12=-38/319	
WEBS	5-18=-20/244, 6-18=-94/214, 6-16=-163/145, 7-16=-31/1022, 12-15=0/412, 9-15=-323/123, 9-12=0/91, 4-21=-1613/235, 4-18=-57/207, 4-19=0/250	

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



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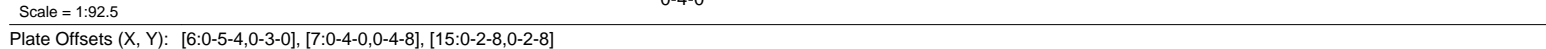
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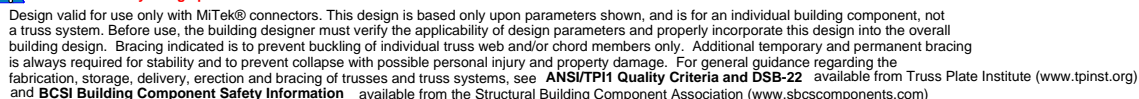


<b>LUMBER</b>		Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x6 SP No.2	Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat.
BOT CHORD	2x4 SP No.2	II; Exp B; Enclosed; MWFRS (envelope) exterior (2)
WEBS	2x4 SP No.2	zone and C-C Zone3 -1-7-4 to 3-0-0, Zone1 3-0-0 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
<b>BRACING</b>		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.
TOP CHORD	Structural wood sheathing directly applied or 5-8-9 oc purlins.	4) Provide adequate drainage to prevent water ponding.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.	5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 4-19, 6-15	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
JOINTS	1 Brace at Jt(s): 18	7) All bearings are assumed to be SP No.2 .
<b>REACTIONS</b>	(size) 2=0-3-0, 9=0-3-0, 12=0-4-0, 19=0-4-0	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2, 229 lb uplift at joint 12, 150 lb uplift at joint 9 and 186 lb uplift at joint 19.
	Max Horiz 2=-203 (LC 13)	
	Max Uplift 2=-125 (LC 12), 9=-150 (LC 13), 12=-229 (LC 13), 19=-186 (LC 12)	
	Max Grav 2=400 (LC 25), 9=491 (LC 2), 12=1775 (LC 2), 19=1516 (LC 2)	
<b>FORCES</b>		<b>LOAD CASE(S)</b> Standard
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/43, 2-4=-114/246, 4-5=-1402/296, 5-6=-1167/308, 6-8=-1371/262, 8-9=-453/146, 9-10=0/43	
BOT CHORD	2-19=-88/114, 17-19=-199/1005, 16-17=0/0, 14-15=-13/1119, 13-14=0/135, 12-13=-1706/250, 7-13=-1322/268, 11-12=-31/0, 9-11=-37/373	
WEBS	4-19=-1673/227, 4-18=0/225, 6-15=-104/202, 6-14=-87/230, 7-14=-32/1070, 11-13=-24/429, 8-13=-352/122, 8-11=-41/85, 15-17=0/161, 5-15=-10/279, 15-18=-202/971, 4-15=-22/277	

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

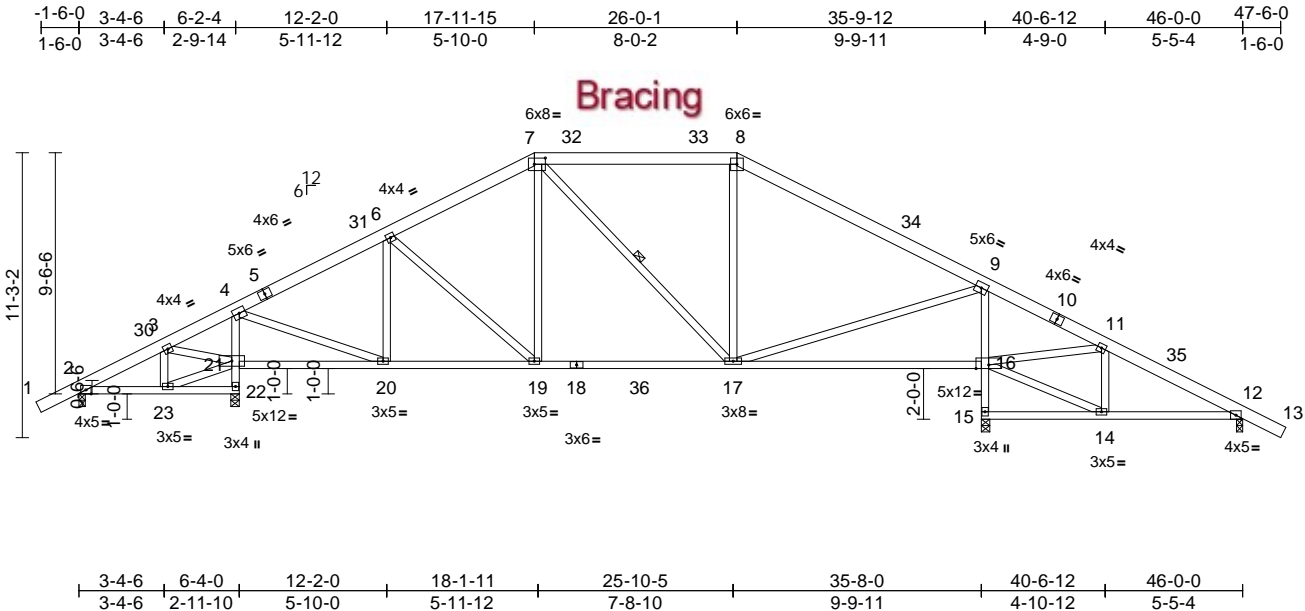


September 24, 2024



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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088407
1655-A	T4	Piggyback Base	3	1	Job Reference (optional)	



Scale = 1:90.3									
Plate Offsets (X, Y): [7:0-5-4,0-3-0]									
<b>Loading</b>	(psf)	<b>Spacing</b>	2-0-0	<b>CSI</b>		<b>DEFL</b>	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.24 16-17	>999	240
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.48 16-17	>743	180
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03 12	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 316 lb FT = 20%									

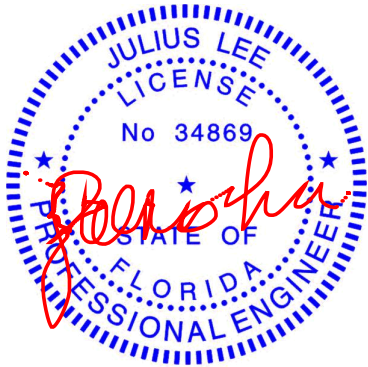
<b>LUMBER</b>	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
<b>BRACING</b>	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-17
<b>REACTIONS</b> (size)	
	2=0-3-0, 12=0-3-0, 15=0-4-0, 22=0-4-0
Max Horiz	2=-203 (LC 13)
Max Uplift	2=-107 (LC 13), 12=-147 (LC 13), 15=-236 (LC 13), 22=-271 (LC 12)
Max Grav	2=289 (LC 25), 12=495 (LC 28), 15=1732 (LC 2), 22=1637 (LC 2)
<b>FORCES</b> (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/43, 2-3=-158/194, 3-4=-52/322, 4-6=-1344/253, 6-7=-1321/290, 7-8=-1070/279, 8-9=-1315/255, 9-11=-101/92, 11-12=-462/140, 12-13=0/43
BOT CHORD	2-23=-47/123, 22-23=-35/0, 21-22=-1593/283, 4-21=-1391/280, 20-21=-137/105, 19-20=-103/1139, 17-19=-46/1153, 16-17=-2/135, 15-16=-1663/257, 9-16=-1273/278, 14-15=-32/0, 12-14=-31/381
WEBS	4-20=-115/1352, 6-20=-304/104, 6-19=-72/139, 7-19=-30/317, 7-17=-171/79, 8-17=-93/222, 9-17=-34/1021, 14-16=-17/440, 11-16=-342/123, 11-14=-44/82, 3-23=0/95, 21-23=-40/162, 3-21=-241/58

**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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-7-4 to 3-0-0, Zone1 3-0-0 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 2, 271 lb uplift at joint 22, 236 lb uplift at joint 15 and 147 lb uplift at joint 12.

**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:

September 24,2024

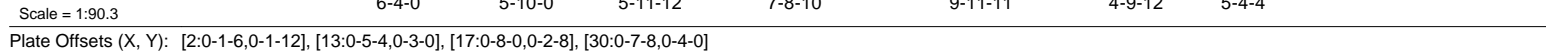
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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 this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

**MiTek®**

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Chesterfield, MO 63017  
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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:42 Page: 1  
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<b>LUMBER</b>		<b>WEBS</b>	30-39=81/822, 37-39=82/834,	9) * This truss has been designed for a live load of 20.0psf
TOP CHORD	2x6 SP No.2 *Except* 1-3,16-17:2x4 SP No.2		28-37=82/847, 30-38=1202/129,	on the bottom chord in all areas where a rectangle
BOT CHORD	2x4 SP No.2		36-38=1232/130, 10-36=1265/134,	3-06-00 tall by 2-00-00 wide will fit between the bottom
WEBS	2x4 SP No.2		10-28=68/121, 10-35=39/165,	chord and any other members, with BCDL = 10.0psf.
OTHERS	2x4 SP No.2		34-35=37/160, 27-34=42/169,	10) All bearings are assumed to be SP No.2 .

WEBS	1 Row at midpt	13-27, 17-25	7-38=-7/145, 38-39=-6/102, 5-30=-1/145,
JOINTS	1 Brace at Jt(s): 32,		4-31=-94/71
	33, 34, 35, 36, 37,		
	38		
		<b>NOTES</b>	
		1) Unbalanced roof live loads have been considered for	

REACTIONS	(size)	
	2=6-4-0, 20=0-3-0, 23=0-4-0, 30=6-4-0, 31=6-4-0, 40=6-4-0	this design.
Max Horiz	2=-204 (LC 13), 40=-204 (LC 13)	2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDEL=5.0psf; BCDEL=5.0psf; h=25ft; Cat.
Max Uplift	2=-51 (LC 13), 20=-167 (LC 13), 23=-200 (LC 13), 30=-246 (LC 12), 31=-54 (LC 12), 40=-51 (LC 13)	II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-13 to 3-0-7, Zone1 3-0-7 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4
Max Grav	2=259 (LC 1), 20=492 (LC 26), 23=1813 (LC 2), 30=1467 (LC 2), 31=207 (LC 19), 40=259 (LC 1)	zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces &

FORCES	(lb) - Maximum Compression/Maximum Tension	MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	 <b>Julius Lee PE No. 34869</b> MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017
TOP CHORD	1-2=0/42, 2-4=-108/112, 4-5=-70/138, 5-6=-57/199, 6-7=-201/160, 7-9=-105/176, 9-10=-74/192, 10-11=-1155/266, 11-12=-1111/276, 12-13=-1068/286, 17-19=-1109/267, 19-20=-358/156, 20-21=0/43, 13-14=-885/280, 14-15=-883/279, 15-17=-883/279	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.	
		4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
		5) Provide adequate drainage to prevent water ponding.	
		6) All plates are MT20 plates unless otherwise indicated.	
BOT CHORD	2-31=-40/154, 30-31=-40/154, 29-30=0/124, 6-30=-639/188, 28-29=0/112, 27-28=-76/933, 25-27=-39/997, 23-25=-4/129, 22-23=-24/100, 20-22=-39/244	7) Gable studs spaced at 2'-0" oc. 8) This truss has been designed for a 10.0 psf bottom chord live load in conformance with, and over the design loads shown.	

- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2, 246 lb uplift at joint 30, 200 lb uplift at joint 23, 54 lb uplift at joint 31, 167 lb uplift at joint 20 and 51 lb uplift at joint 2.

**LOAD CASE(S)** Standard

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-13 to 3-0-7, Zone1 3-0-7 to 17-11-15, Zone2 17-11-15 to 24-6-0, Zone1 24-6-0 to 26-0-1, Zone2 26-0-1 to 32-6-2, Zone1 32-6-2 to 47-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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.



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

September 24, 2024



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Chesterfield, MO 63017  
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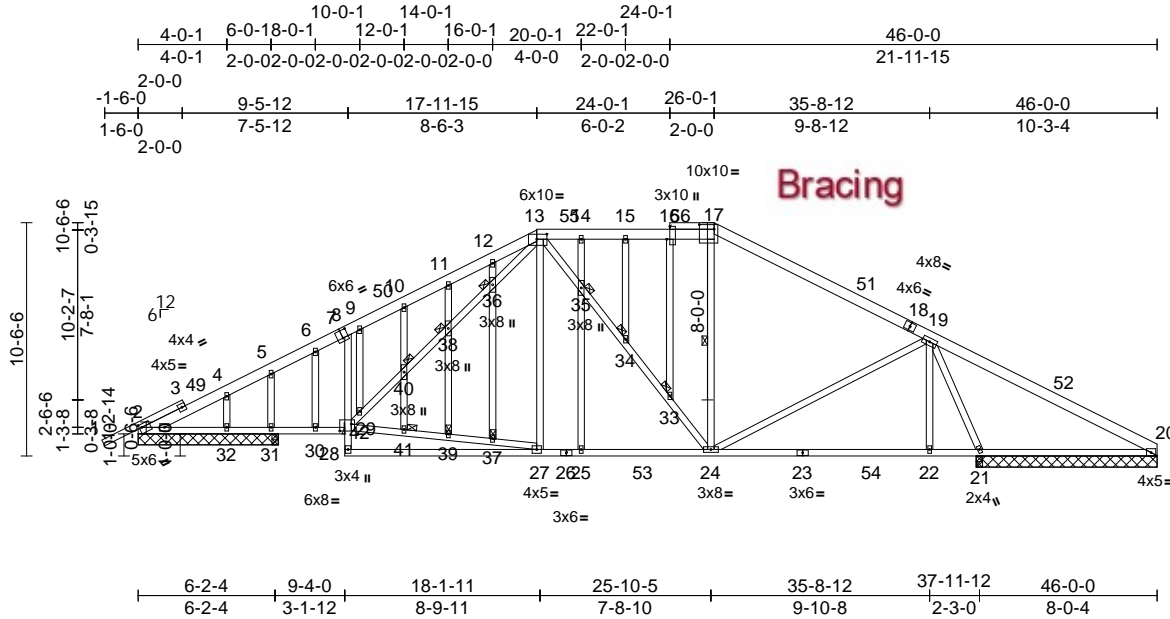


Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088409
1655-A	T6	Piggyback Base	1	1	Job Reference (optional)	

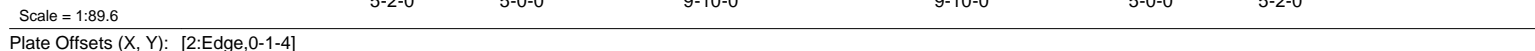
19 Lumber, Inc., Old Town, FL - 32680,

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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:43 Page: 1  
ID:rCXn4UM30JPSNyeo1kOcDNvcMN8-RfC?PsB70Ha3NSaPanL8w3uITXbGKWRcDoi7J4zJC?f



<b>LUMBER</b>		2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2)
TOP CHORD	2x4 SP No.2	zone and C-C Zone3 -1-6-13 to 2-5-3, Zone1 2-5-3 to
BOT CHORD	2x4 SP 2400F 2.0E *Except* 14-10:2x4 SP No.2	20-0-0, Zone2 20-0-0 to 25-7-14, Zone1 25-7-14 to
WEBS	2x4 SP No.2	41-6-13 zone; cantilever left and right exposed ; end
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3	vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
<b>BRACING</b>		3) Building Designer / Project engineer responsible for
TOP CHORD	Structural wood sheathing directly applied or 3-8-5 oc purlins.	verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
WEBS	1 Row at midpt 5-15, 7-13	5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
<b>REACTIONS</b>	(size) 2=0-4-0, 10=0-3-0, 13=0-4-0 Max Horiz 2=180 (LC 12) Max Uplift 2=-249 (LC 12), 10=-128 (LC 13), 13=-236 (LC 13) Max Grav 2=1300 (LC 2), 10=364 (LC 26), 13=2123 (LC 2)	6) Bearings are assumed to be: Joint 2 SP 2400F 2.0E , Joint 13 SP No.2 , Joint 10 SP No.2 .
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension	7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 2, 236 lb uplift at joint 13 and 128 lb uplift at joint 10.
TOP CHORD	1-2=0/42, 2-3=-2090/351, 3-5=-1782/346, 5-6=-903/255, 6-7=-902/258, 7-9=-31/602, 9-10=-233/264, 10-11=0/42	
BOT CHORD	2-18=-389/1846, 17-18=-402/1811, 15-17=-222/1301, 13-15=0/254, 12-13=-250/76, 10-12=-177/102	
WEBS	3-18=0/135, 3-17=-383/213, 5-17=-82/651, 5-15=-762/308, 6-15=-75/438, 7-15=-58/776, 7-13=-1631/256, 9-13=-476/226, 9-12=0/206	

LOAD CASE(S) Standard



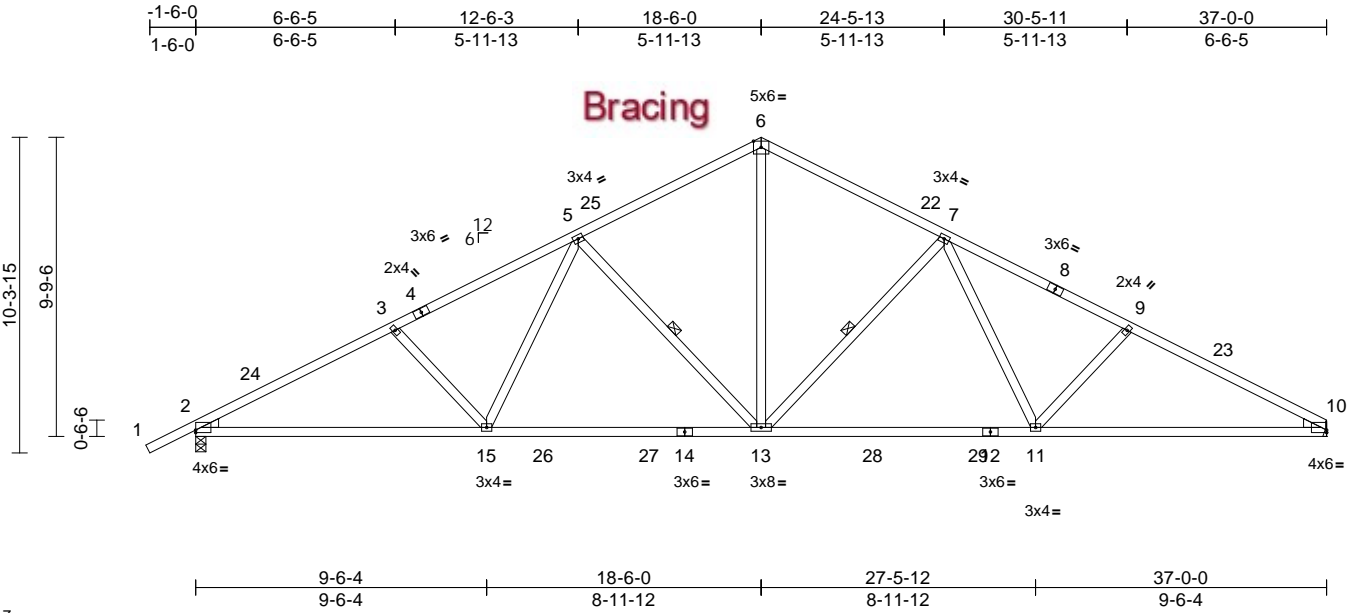
September 24, 2024

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Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088411
1655-A	T8	Common	11	1	Job Reference (optional)	



Scale = 1:74.7

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

<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 (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.26	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.44	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 194 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP 2400F 2.0E

WEBS 2x4 SP No.2

WEDGE Left: 2x4 SP No.3

Right: 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 5-13, 7-13

**REACTIONS** (size) 2=0-4-0, 10= Mechanical

Max Horiz 2=180 (LC 16)

Max Uplift 2=-284 (LC 12), 10=-247 (LC 13)

Max Grav 2=1704 (LC 2), 10=1623 (LC 2)

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

TOP CHORD 6-7=-1912/366, 7-9=-2698/427, 9-10=-2908/456, 1-2=0/42, 2-3=-2897/449, 3-5=-2688/420, 5-6=-1913/358

BOT CHORD 2-15=-477/2519, 13-15=-309/2106, 11-13=-186/2109, 10-11=-331/2532

WEBS 6-13=-177/1374, 5-13=-691/275, 5-15=-65/588, 3-15=-318/210, 7-13=-696/278, 7-11=-71/600, 9-11=-327/214

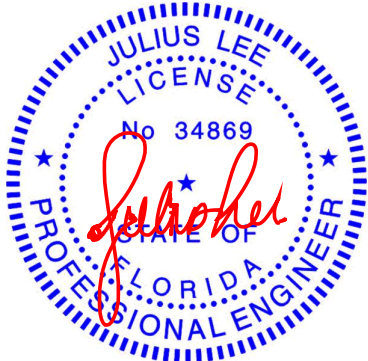
**NOTES**

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

2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-13 to 2-1-10, Zone1 2-1-10 to 18-6-0, Zone2 18-6-0 to 23-8-13, Zone1 23-8-13 to 37-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearings are assumed to be: Joint 2 SP 2400F 2.0E .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 10 and 284 lb uplift at joint 2.

**LOAD CASE(S)** Standard



Julius Lee PE No. 34869  
MiTek Inc. DBA MiTek USA FL Cert 6634  
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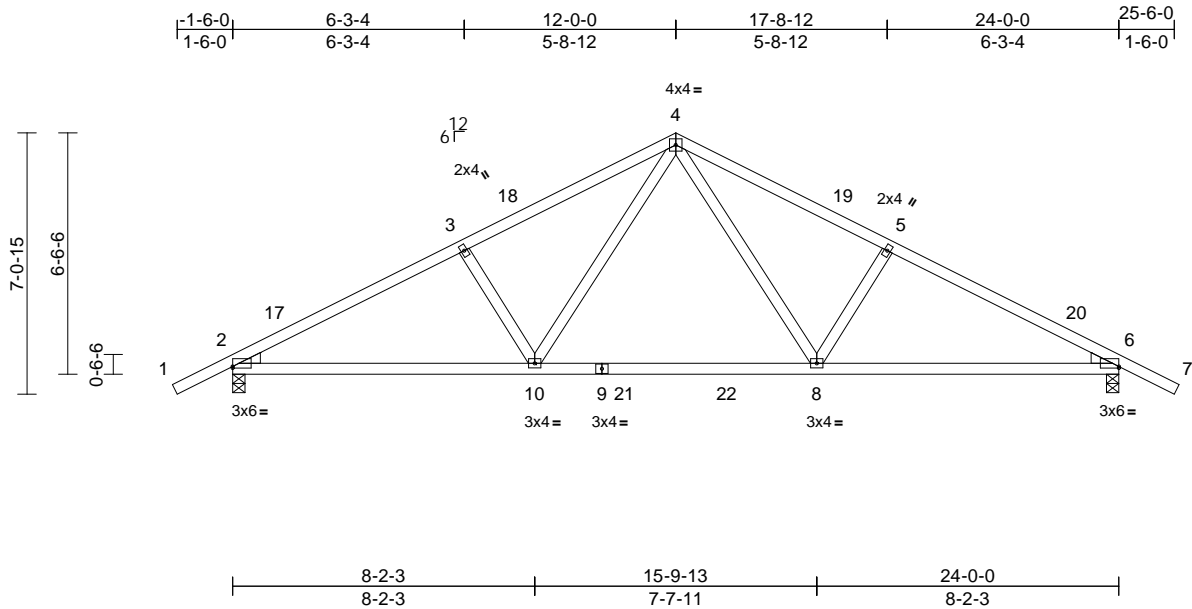
**MiTek®**  
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Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	T9	Common	5	1	Job Reference (optional)	T35088412

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:43  
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Page: 1



Scale = 1:61.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.15	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.25	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 114 lb	FT = 20%

**LUMBER**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2  
WEDGE Left: 2x4 SP No.3  
Right: 2x4 SP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

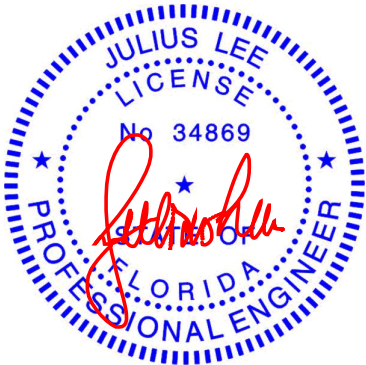
**REACTIONS** (size) 2=0-4-0, 6=0-4-0  
Max Horiz 2=-113 (LC 13)  
Max Uplift 2=-197 (LC 12), 6=-197 (LC 13)  
Max Grav 2=1119 (LC 2), 6=1119 (LC 2)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/42, 2-3=-1710/268, 3-4=-1555/277, 4-5=-1555/277, 5-6=-1710/268, 6-7=0/42  
BOT CHORD 2-10=-254/1469, 8-10=-75/1003, 6-8=-151/1468  
WEBS 4-8=-129/635, 5-8=-340/218, 4-10=-129/635, 3-10=-340/218

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-13 to 1-5-3, Zone1 1-5-3 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 197 lb uplift at joint 2 and 197 lb uplift at joint 6.
- 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:

September 24,2024

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

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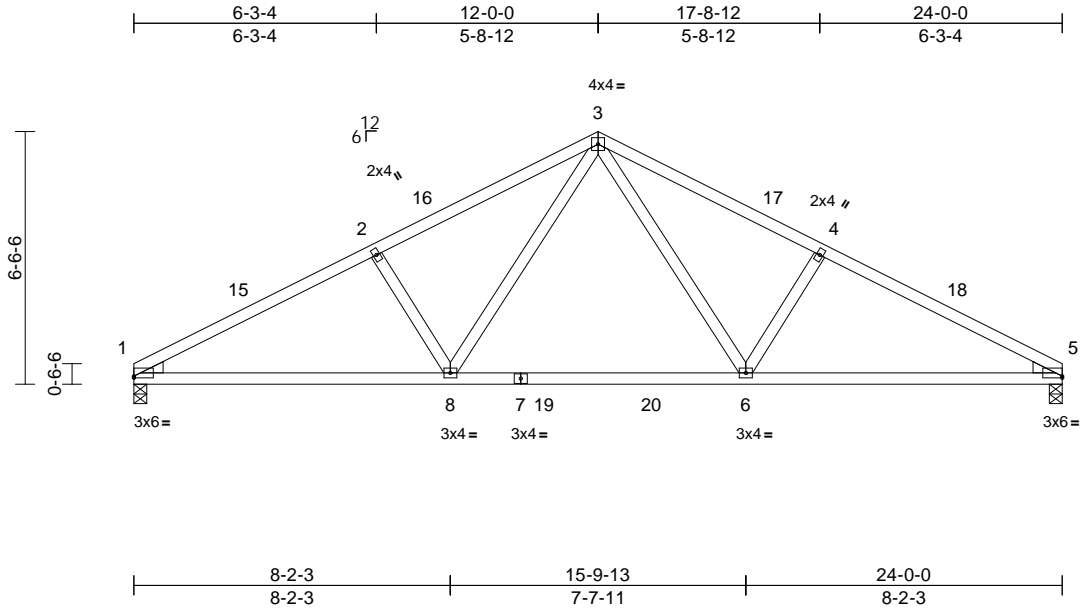


Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088413
1655-A	T10	Common	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:44  
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Page: 1



Scale = 1:59.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.14	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.23	6-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.05	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 109 lb	FT = 20%

#### LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS

(size)	1=0-4-0, 5=0-4-0
Max Horiz	1=-100 (LC 13)
Max Uplift	1=-160 (LC 12), 5=-160 (LC 13)
Max Grav	1=1041 (LC 2), 5=1041 (LC 2)

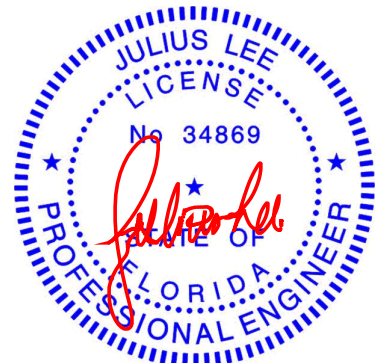
#### FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1730/285, 2-3=-1574/299, 3-4=-1574/299, 4-5=-1730/285
BOT CHORD	1-8=-277/1489, 6-8=-91/1013, 5-6=-186/1489
WEBS	3-6=-136/648, 4-6=-349/222, 3-8=-136/648, 2-8=-349/222

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 160 lb uplift at joint 1 and 160 lb uplift at joint 5.
- 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:

September 24,2024

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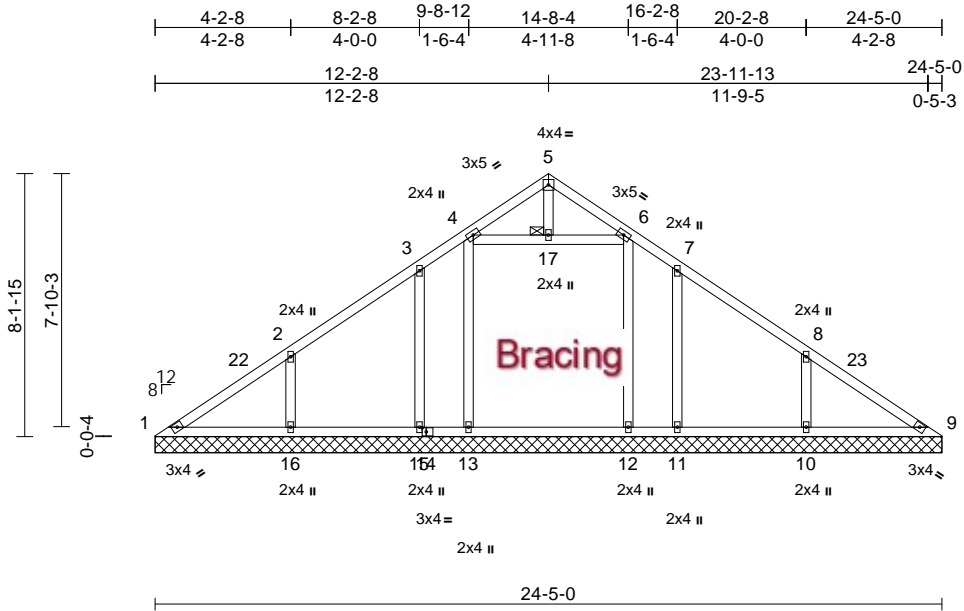
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088414
1655-A	V1	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

Run: 8.82 S Sep 12 2024 Print: 8.820 S Sep 12 2024 MiTek Industries, Inc. Tue Sep 24 08:57:44  
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Scale = 1:64.2												
Plate Offsets (X, Y): [14:0-1-8,0-1-8]												
<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 (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 127 lb	FT = 20%

<b>LUMBER</b>		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
OTHERS	2x4 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
JOINTS	1 Brace at Jt(s): 17	
<b>REACTIONS</b>	(size)	1=24-5-0, 9=24-5-0, 10=24-5-0, 11=24-5-0, 12=24-5-0, 13=24-5-0, 15=24-5-0, 16=24-5-0
	Max Horiz	1=-197 (LC 8)
	Max Uplift	1=-39 (LC 8), 10=-158 (LC 13), 11=-110 (LC 13), 15=-110 (LC 12), 16=-160 (LC 12)
	Max Grav	1=139 (LC 20), 9=109 (LC 26), 10=472 (LC 20), 11=222 (LC 20), 12=389 (LC 20), 13=426 (LC 19), 15=222 (LC 19), 16=474 (LC 19)
<b>FORCES</b>		(lb) - Maximum Compression/Maximum Tension
TOP CHORD		1-2=-194/244, 2-3=-93/195, 3-4=-54/174, 4-5=-163/73, 5-6=-163/68, 6-7=-44/136, 7-8=-24/141, 8-9=-133/176
BOT CHORD		1-16=-108/167, 15-16=-108/123, 13-15=-108/123, 12-13=-110/122, 11-12=-107/122, 10-11=-107/122, 9-10=-107/122
WEBS		4-13=-228/30, 6-12=-209/10, 4-17=0/187, 6-17=0/187, 3-15=-189/135, 2-16=-288/188, 7-11=-188/135, 8-10=-288/187, 5-17=-25/0

**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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 12-2-14, Zone2 12-2-14 to 16-2-14, Zone1 16-2-14 to 24-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Vertical gable studs spaced at 4-0-0 oc and horizontal gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 110 lb uplift at joint 15, 160 lb uplift at joint 16, 110 lb uplift at joint 11 and 158 lb uplift at joint 10.

**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:

September 24,2024

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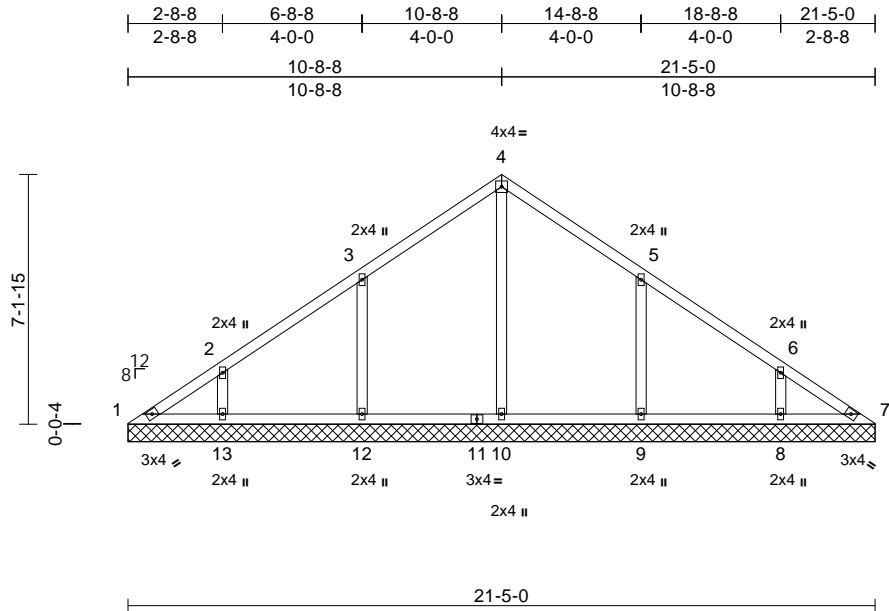
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	T35088415
1655-A	V2	Valley	1	1	Job Reference (optional)	

19 Lumber, Inc., Old Town, FL - 32680,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 94 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size)	1=21-5-0, 7=21-5-0, 8=21-5-0, 9=21-5-0, 10=21-5-0, 12=21-5-0, 13=21-5-0
Max Horiz	1=-173 (LC 8)
Max Uplift	1=-36 (LC 8), 8=-112 (LC 13), 9=-162 (LC 13), 12=-162 (LC 12), 13=-114 (LC 12)
Max Grav	1=117 (LC 20), 7=87 (LC 19), 8=353 (LC 20), 9=458 (LC 20), 10=403 (LC 22), 12=458 (LC 19), 13=356 (LC 19)

#### FORCES

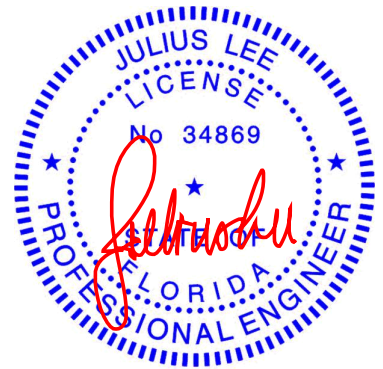
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-165/145, 2-3=-136/117, 3-4=-115/163, 4-5=-112/142, 5-6=-87/69, 6-7=-121/81
BOT CHORD	1-13=-60/133, 12-13=-60/115, 10-12=-60/115, 9-10=-60/115, 8-9=-60/115, 7-8=-60/115
WEBS	4-10=-196/0, 3-12=-287/203, 2-13=-226/149, 5-9=-287/203, 6-8=-225/148

#### 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=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 2-8-14, Zone1 2-8-14 to 10-8-14, Zone2 10-8-14 to 14-8-14, Zone1 14-8-14 to 21-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 162 lb uplift at joint 12, 114 lb uplift at joint 13, 162 lb uplift at joint 9 and 112 lb uplift at joint 8.

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:

September 24,2024

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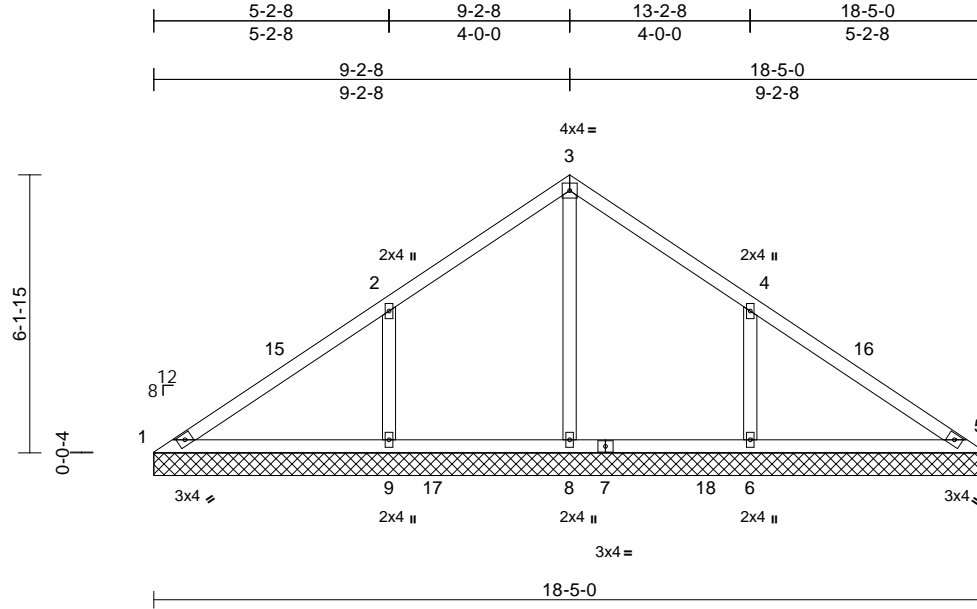
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	V3	Valley	1	1	Job Reference (optional)	T35088416

19 Lumber, Inc., Old Town, FL - 32680,

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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 (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 76 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size) 1=18-5-0, 5=18-5-0, 6=18-5-0, 8=18-5-0, 9=18-5-0, 14=18-5-0  
Max Horiz 1=147 (LC 9)  
Max Uplift 1=-49 (LC 26), 6=-193 (LC 13), 9=-199 (LC 12)  
Max Grav 1=99 (LC 25), 5=1 (LC 20), 6=549 (LC 20), 8=654 (LC 19), 9=555 (LC 19), 14=1 (LC 20)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-107/423, 2-3=0/349, 3-4=0/334, 4-5=-181/383  
BOT CHORD 1-9=-272/113, 8-9=-272/113, 6-8=-272/113, 5-6=-272/113  
WEBS 3-8=-491/33, 2-9=-336/221, 4-6=-334/219

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 9-2-14, Zone2 9-2-14 to 13-2-14, Zone1 13-2-14 to 18-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - All bearings are assumed to be SP No.2.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 199 lb uplift at joint 9 and 193 lb uplift at joint 6.
- 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:

September 24, 2024

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**MiTek®**

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Chesterfield, MO 63017  
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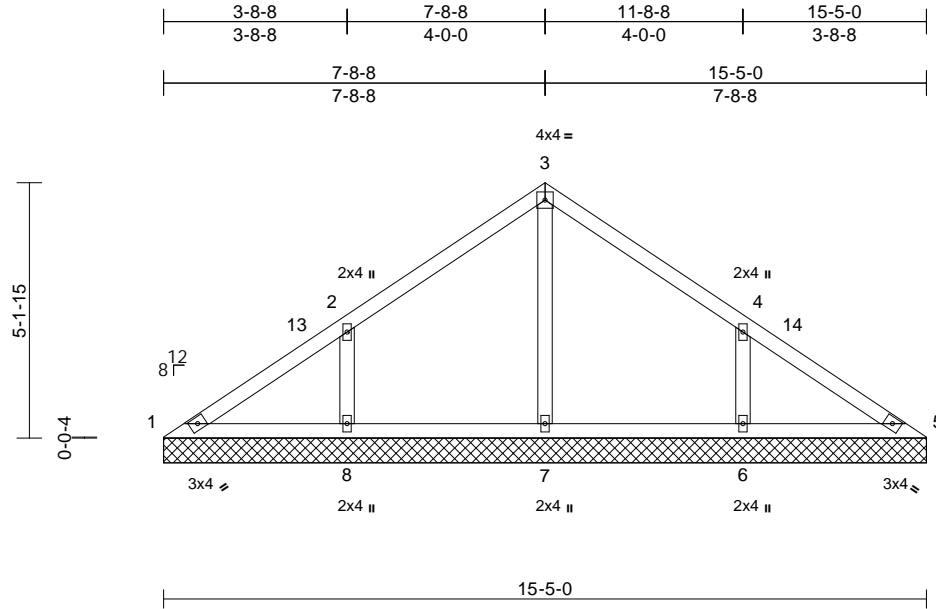


Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	V4	Valley	1	1	Job Reference (optional)	T35088417

19 Lumber, Inc., Old Town, FL - 32680,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 61 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

**REACTIONS** (size) 1=15-5-0, 5=15-5-0, 6=15-5-0, 7=15-5-0, 8=15-5-0  
Max Horiz 1=123 (LC 9)  
Max Uplift 1=16 (LC 13), 6=158 (LC 13), 8=159 (LC 12)  
Max Grav 1=102 (LC 20), 5=95 (LC 26), 6=379 (LC 20), 7=336 (LC 1), 8=381 (LC 19)

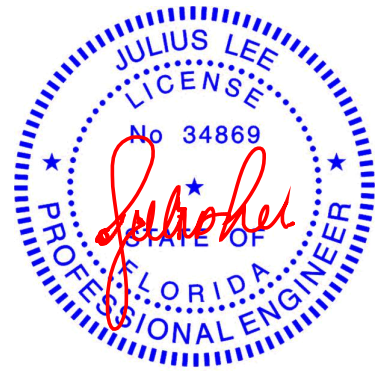
#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-136/163, 2-3=-53/135, 3-4=-39/119, 4-5=-114/126  
BOT CHORD 1-8=-78/126, 7-8=-78/87, 6-7=-78/87, 5-6=-78/90  
WEBS 3-7=-265/22, 2-8=-280/187, 4-6=-279/186

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 7-8-14, Zone2 7-8-14 to 11-8-14, Zone1 11-8-14 to 15-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 4-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - All bearings are assumed to be SP No.2 .
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 159 lb uplift at joint 8 and 158 lb uplift at joint 6.
- 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:

September 24,2024

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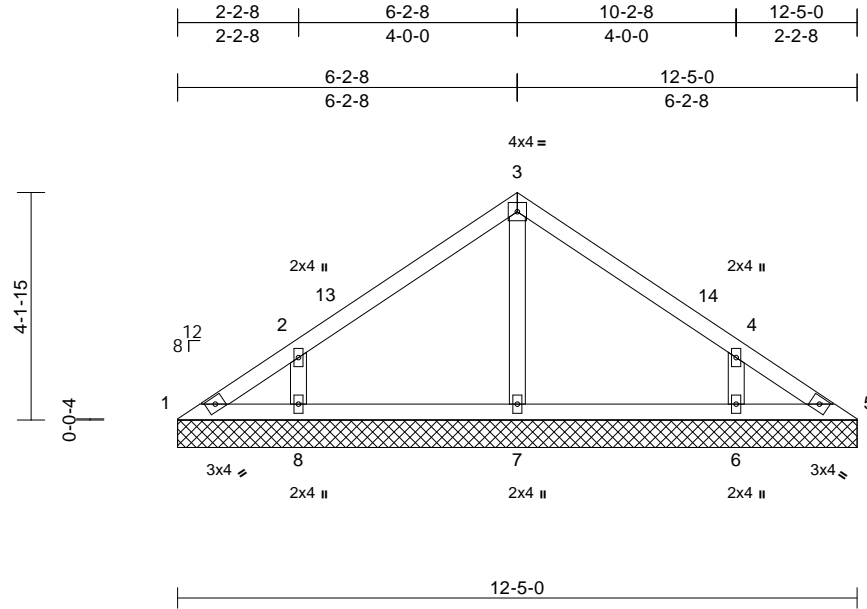
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	V5	Valley	1	1	Job Reference (optional)	T35088418

19 Lumber, Inc., Old Town, FL - 32680,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 47 lb FT = 20%

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(size)	1=12-5-0, 5=12-5-0, 6=12-5-0, 7=12-5-0, 8=12-5-0
Max Horiz	1=98 (LC 11)
Max Uplift	1=-22 (LC 8), 5=-1 (LC 12), 6=-133 (LC 13), 8=-135 (LC 12)
Max Grav	1=79 (LC 20), 5=61 (LC 19), 6=320 (LC 20), 7=269 (LC 1), 8=322 (LC 19)

#### FORCES

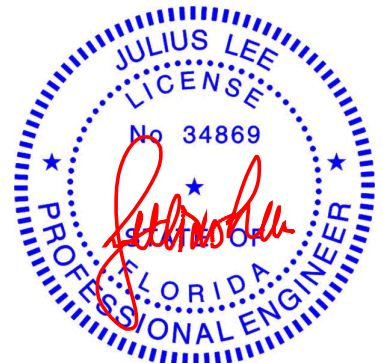
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-104/87, 2-3=-118/109, 3-4=-107/111, 4-5=-76/51
BOT CHORD	1-8=-27/73, 7-8=-25/55, 6-7=-25/55, 5-6=-25/61
WEBS	3-7=-184/22, 2-8=-262/215, 4-6=-261/215

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 6-2-14, Zone2 6-2-14 to 10-2-14, Zone1 10-2-14 to 12-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 1 lb uplift at joint 5, 135 lb uplift at joint 8 and 133 lb uplift at joint 6.

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:

September 24, 2024

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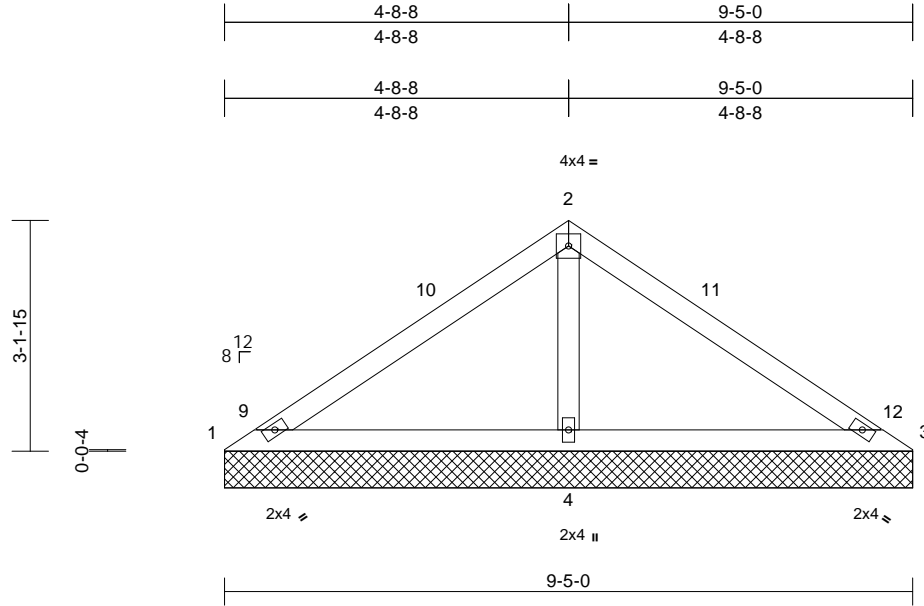
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	V6	Valley	1	1	Job Reference (optional)	T35088419

19 Lumber, Inc., Old Town, FL - 32680,

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 33 lb FT = 20%

#### LUMBER

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

#### BRACING

TOP CHORD	Structural wood sheathing directly applied or 9-5-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS

(size)	1=9-5-0, 3=9-5-0, 4=9-5-0
Max Horiz	1=74 (LC 11)
Max Uplift	1=-21 (LC 26), 3=-21 (LC 25), 4=-125 (LC 12)
Max Grav	1=73 (LC 25), 3=73 (LC 26), 4=684 (LC 1)

#### FORCES

(lb) - Maximum Compression/Maximum Tension

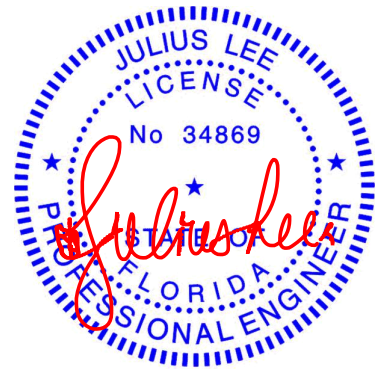
TOP CHORD	1-2=-145/312, 2-3=-149/312
BOT CHORD	1-4=-225/208, 3-4=-225/208
WEBS	2-4=-520/311

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 4-8-14, Zone2 4-8-14 to 8-11-13, Zone1 8-11-13 to 9-5-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 21 lb uplift at joint 3 and 125 lb uplift at joint 4.

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:

September 24,2024

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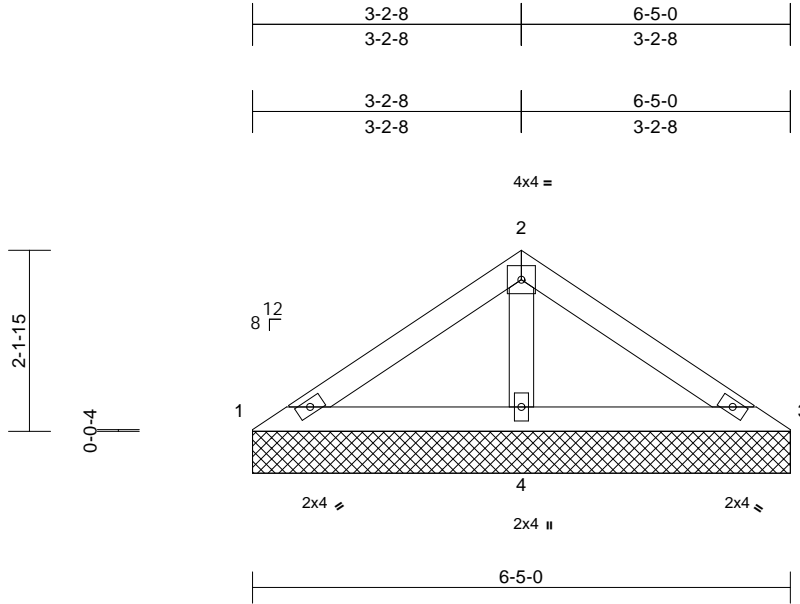
Job	Truss	Truss Type	Qty	Ply	Spec Lt 4	
1655-A	V7	Valley	1	1	Job Reference (optional)	T35088420

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Scale = 1:17.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 22 lb	FT = 20%

#### LUMBER

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

#### BRACING

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

REACTIONS	(size)	1=6-5-0, 3=6-5-0, 4=6-5-0
	Max Horiz	1=49 (LC 11)
	Max Uplift	1=-5 (LC 12), 3=-14 (LC 13), 4=-72 (LC 12)
	Max Grav	1=68 (LC 25), 3=68 (LC 26), 4=417 (LC 1)

#### FORCES

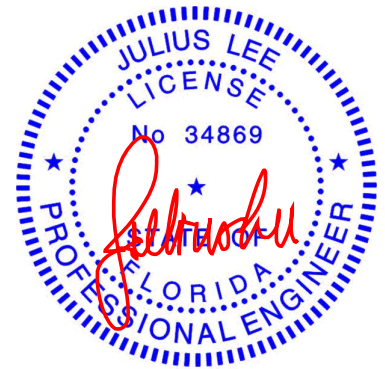
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-99/164, 2-3=-99/164
BOT CHORD	1-4=-136/171, 3-4=-136/171
WEBS	2-4=-282/232

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 14 lb uplift at joint 3 and 72 lb uplift at joint 4.

LOAD CASE(S) Standard



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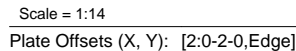
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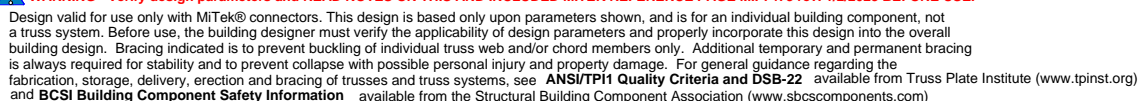


<b>LUMBER</b>		8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.  9) All bearings are assumed to be SP No.2 . 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 22 lb uplift at joint 3.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
<b>BRACING</b>		
TOP CHORD	Structural wood sheathing directly applied or 3-5-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
<b>REACTIONS</b>	(size)	1=3-5-0, 3=3-5-0
	Max Horiz	1=-24 (LC 10)
	Max Uplift	1=-22 (LC 12), 3=-22 (LC 13)
	Max Grav	1=137 (LC 1), 3=137 (LC 1)
<b>FORCES</b>	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-199/138, 2-3=-199/138	
BOT CHORD	1-3=-98/161	
<b>LOAD CASE(S)</b>		Standard

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)  
Vasd=101mph; C<sub>DL</sub>=5.0psf; B<sub>CDL</sub>=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



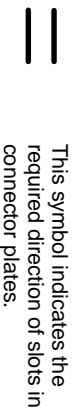
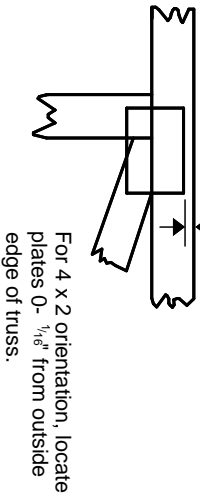
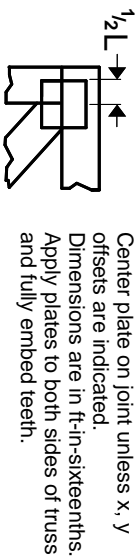
September 24, 2024



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## Symbols

### PLATE LOCATION AND ORIENTATION



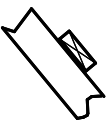
\* Plate location details available in MITek software or upon request.

### PLATE SIZE

**4 X 4**

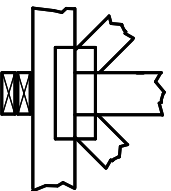
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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

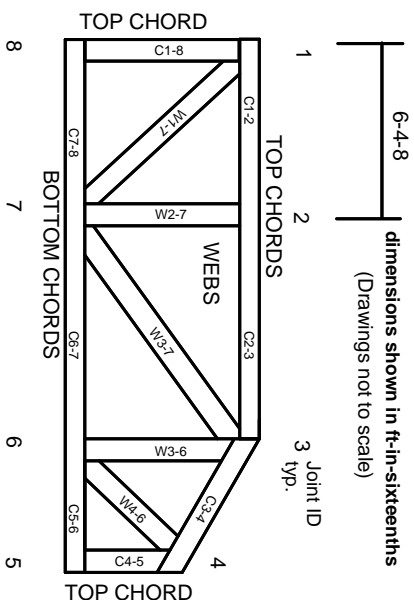


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TP1: 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: MII-7473 rev. 1/2/2023

## General Safety Notes

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

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