



RE: 3262107

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

Site Information:

Customer: DSW Homes Project Name: 3262107
Lot/Block: . Model: 2 Bed 2 Bath Wide Slab (WB)
Address: 259 SE Little John Place Subdivision: .
City: High Springs State: FL

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: 160 mph
Roof Load: 45.0 psf Floor Load: N/A psf

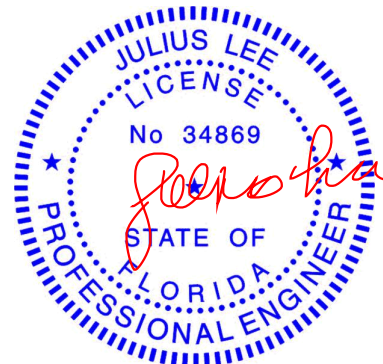
This package includes 11 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T41083375	1A	5/6/2026
2	T41083376	1B	5/6/2026
3	T41083377	1C	5/6/2026
4	T41083378	1D	5/6/2026
5	T41083379	2A	5/6/2026
6	T41083380	2B	5/6/2026
7	T41083381	2C	5/6/2026
8	T41083382	V4	5/6/2026
9	T41083383	V7	5/6/2026
10	T41083384	V10	5/6/2026
11	T41083385	V13	5/6/2026



The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Tibbetts Lumber Company-Ft. Myers.
Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2027.
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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:

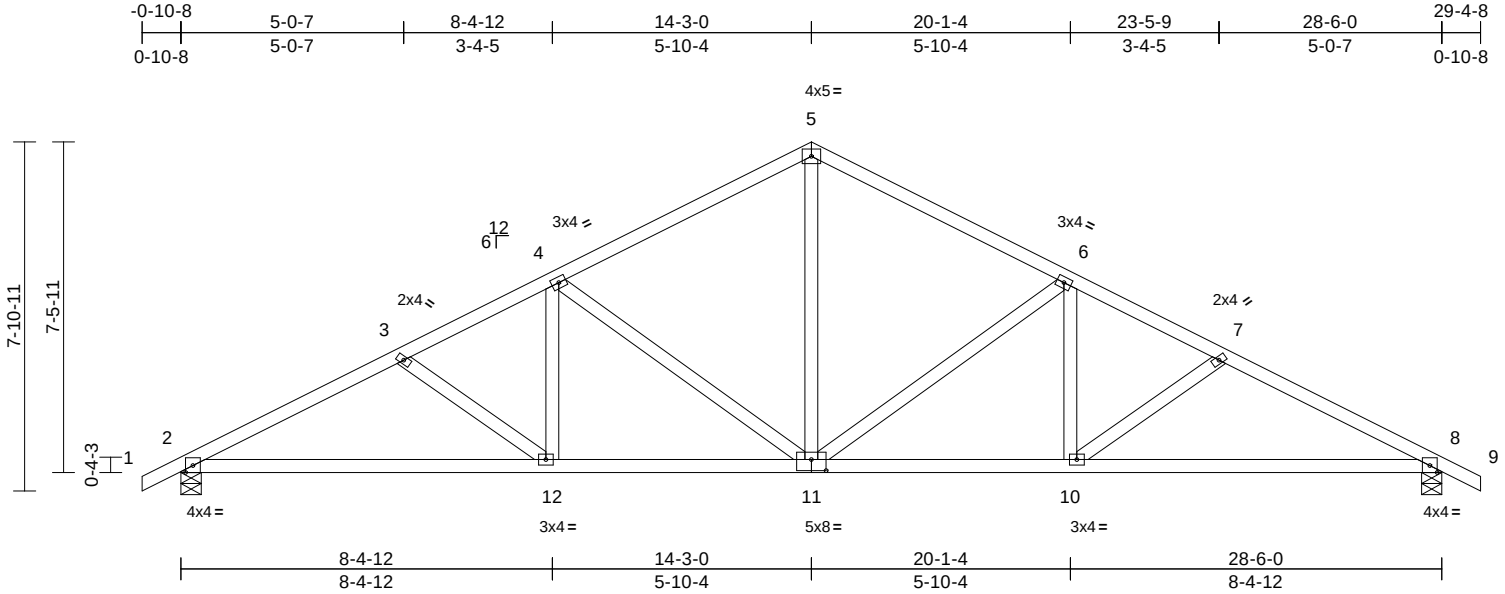
May 06, 2026

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	1A	Common	10	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:37
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Page: 1



Scale = 1:52.1											
Plate Offsets (X, Y): [11:0-4-0-0-3-0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.12	10-15	>999	360	GRIP
TCDL	15.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.29	10-15	>999	240	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.09	8	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.10	11	>999	240	Weight: 147 lb FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 6-2-11 oc bracing.

REACTIONS (size) 2=0-5-8, 8=0-5-8
 Max Horiz 2=197 (LC 11)
 Max Uplift 2=-272 (LC 12), 8=-272 (LC 12)
 Max Grav 2=1344 (LC 1), 8=1344 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-3=-2368/1100, 3-4=-2111/1004, 4-5=-1541/810, 5-6=-1541/810, 6-7=-2111/1004, 7-8=-2368/1100, 8-9=0/27
 BOT CHORD 2-12=-865/2079, 10-12=-679/1847, 8-10=-869/2079
 WEBS 4-12=-58/405, 4-11=-710/412, 5-11=-422/895, 6-11=-710/412, 6-10=-58/405, 3-12=-294/233, 7-10=-295/233

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 8 and 272 lb uplift at joint 2.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.



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

May 6,2026

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.tpin.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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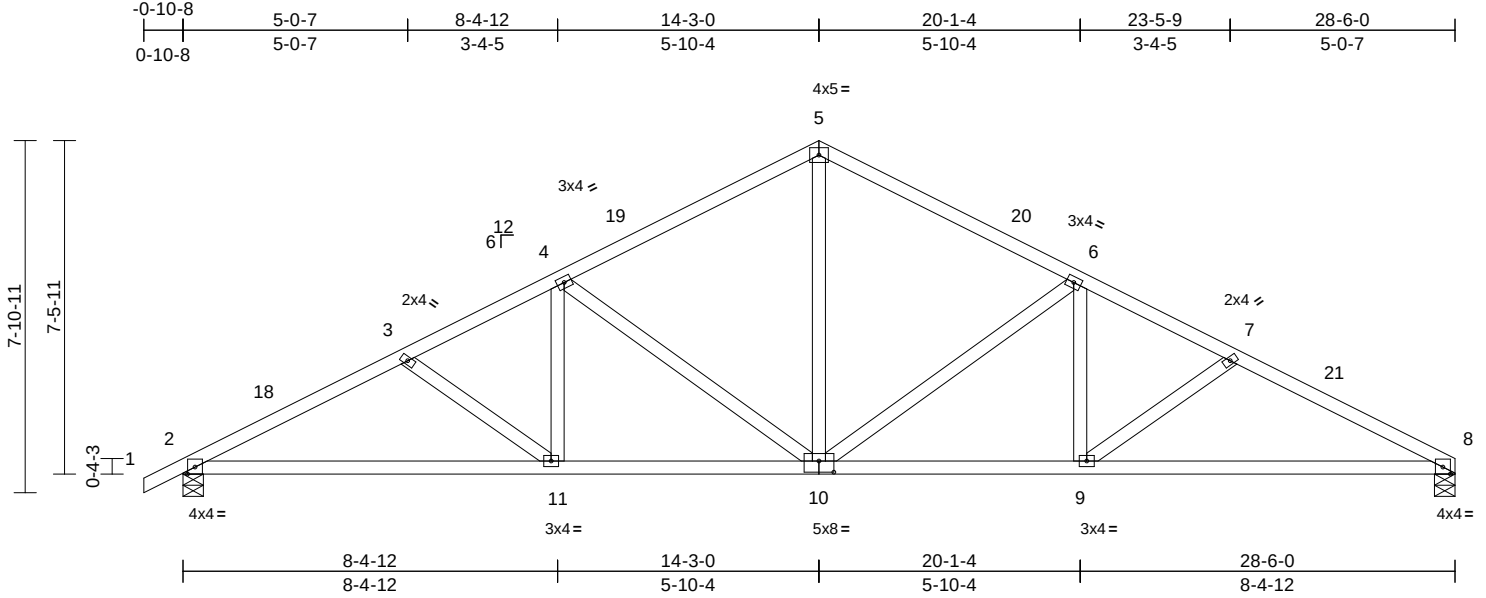
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	1B	Common	7	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:38

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Scale = 1:51.6

Plate Offsets (X, Y): [10:0-4-0-0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.12	9-14	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.30	9-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.08	9-14	>999	240	Weight: 146 lb	FT = 20%

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

BRACING
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied or 8-5-2 oc bracing.

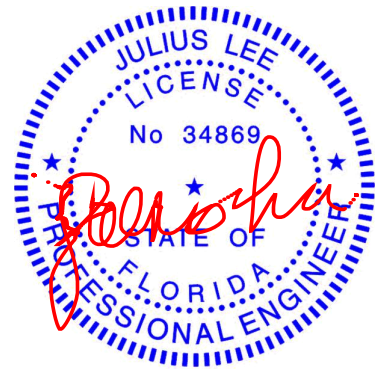
REACTIONS (size) 2=0-5-8, 8=0-5-8
 Max Horiz 2=194 (LC 11)
 Max Uplift 2=-273 (LC 12), 8=-230 (LC 12)
 Max Grav 2=1345 (LC 1), 8=1282 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/27, 2-3=-2370/588, 3-4=-2114/536,
 4-5=-1543/466, 5-6=-1543/473,
 6-7=-2118/557, 7-8=-2377/621
 BOT CHORD 2-11=-446/2081, 9-11=-356/1852,
 8-9=-470/2089
 WEBS 4-11=0/405, 4-10=-710/234, 5-10=-199/897,
 6-10=-714/235, 6-9=-20/408, 3-11=-294/139,
 7-9=-301/164

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 8 and 273 lb uplift at joint 2.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=160mph (3-second gust)
 Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
 B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 -0-10-8 to 2-1-8,
 Zone1 2-1-8 to 14-3-0, Zone2 14-3-0 to 18-5-15, Zone1
 18-5-15 to 28-6-0 zone; cantilever left and right
 exposed ;C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.



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

May 6, 2026

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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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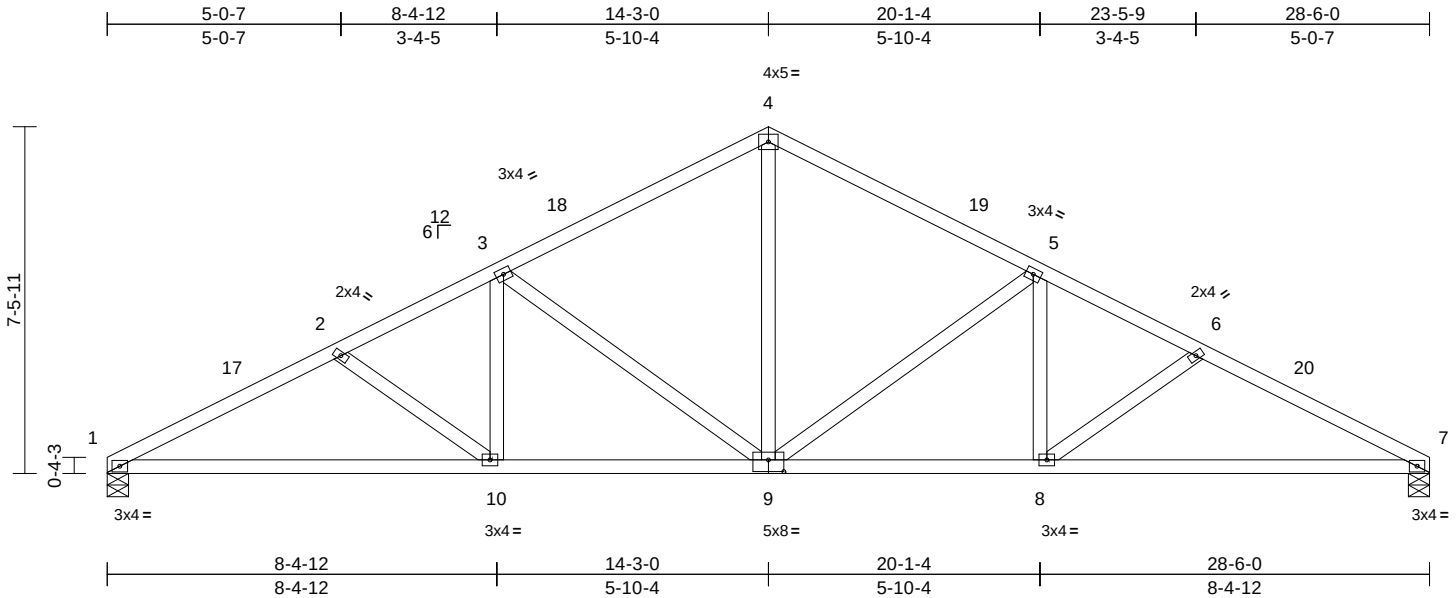
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	1C	Common	2	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39

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Scale = 1:49.7											
Plate Offsets (X, Y): [9:0-4-0,0-3-0]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.12	8-16	>999	360	GRIP
TCDL	15.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.30	8-16	>999	240	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.09	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Wind(LL)	0.08	8-16	>999	240	Weight: 145 lb FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-4-12 oc bracing.

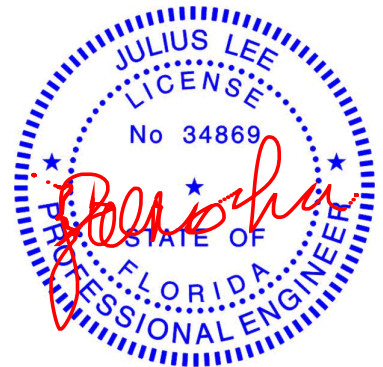
REACTIONS (size) 1=0-5-8, 7=0-5-8
Max Horiz 1=186 (LC 11)
Max Uplift 1=-231 (LC 12), 7=-231 (LC 12)
Max Grav 1=1282 (LC 1), 7=1283 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2379/622, 2-3=-2120/558,
3-4=-1545/474, 4-5=-1545/474,
5-6=-2120/558, 6-7=-2379/622
BOT CHORD 1-10=-473/2091, 8-10=-360/1854,
7-8=-471/2091
WEBS 3-10=-20/408, 3-9=-713/236, 4-9=-200/898,
5-9=-714/236, 5-8=-20/408, 2-10=-300/164,
6-8=-301/164

- NOTES**
- 1) Unbalanced roof 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) Wind: ASCE 7-22; Vult=160mph (3-second gust)
Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0,
Zone1 3-0-0 to 14-3-0, Zone2 14-3-0 to 18-5-15, Zone1
18-5-15 to 28-6-0 zone; cantilever left and right
exposed ;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.

- 5) 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.
- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 231 lb uplift at joint
1 and 231 lb uplift at joint 7.

LOAD CASE(S) Standard



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

May 6, 2026

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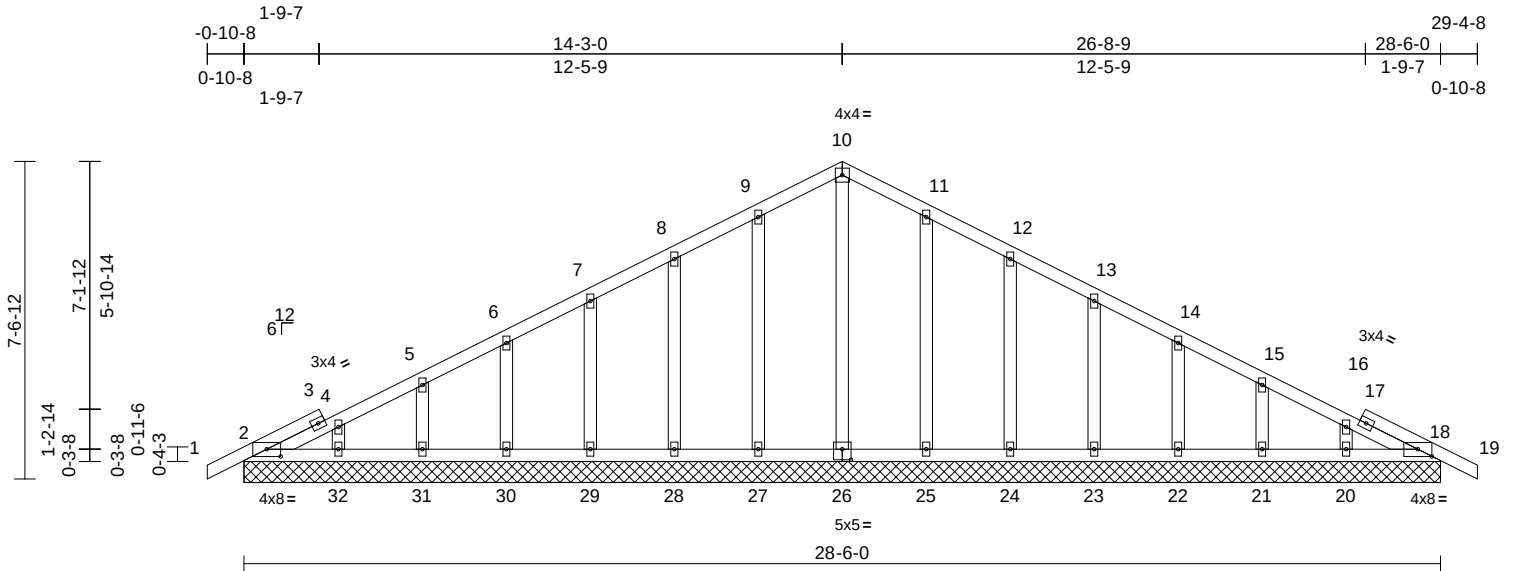
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	1D	Common Supported Gable	2	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39
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Page: 1



Scale = 1:54.9									
Plate Offsets (X, Y): [2:0-4-0,0-2-1], [18:0-4-0,0-2-1], [26:0-2-8,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a
TCDL	15.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	33	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
PLATES MT20 GRIP 244/190									
Weight: 162 lb FT = 20%									

LUMBER		BOT CHORD		2-32=-51/159, 31-32=-51/159, 30-31=-51/159, 29-30=-51/159, 28-29=-51/159, 27-28=-51/159, 25-27=-51/159, 24-25=-51/159, 23-24=-51/159, 22-23=-51/159, 21-22=-51/159, 20-21=-51/159, 18-20=-51/159, 10-26=-153/23, 9-27=-155/131, 8-28=-143/138, 7-29=-146/134, 6-30=-145/134, 5-31=-145/138, 4-32=-141/108, 11-25=-153/131, 12-24=-144/138, 13-23=-145/134, 14-22=-145/134, 15-21=-145/138, 16-20=-141/107		10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 18, 45 lb uplift at joint 2, 48 lb uplift at joint 27, 52 lb uplift at joint 28, 50 lb uplift at joint 29, 50 lb uplift at joint 30, 52 lb uplift at joint 31, 35 lb uplift at joint 32, 48 lb uplift at joint 25, 52 lb uplift at joint 24, 50 lb uplift at joint 23, 50 lb uplift at joint 22, 52 lb uplift at joint 21, 35 lb uplift at joint 20, 45 lb uplift at joint 18 and 45 lb uplift at joint 2.			
TOP CHORD 2x4 SP No.2		OTHERS 2x4 SP No.2							
BRACING		TOP CHORD		WEBS					
		Structural wood sheathing directly applied or 6-0-0 oc purlins.							
BOT CHORD		Rigid ceiling directly applied or 10-0-0 oc bracing.							
REACTIONS (size)		2=28-6-0, 18=28-6-0, 20=28-6-0, 21=28-6-0, 22=28-6-0, 23=28-6-0, 24=28-6-0, 25=28-6-0, 26=28-6-0, 27=28-6-0, 28=28-6-0, 29=28-6-0, 30=28-6-0, 31=28-6-0, 32=28-6-0							
Max Horiz		2=188 (LC 11)							
Max Uplift		2=-45 (LC 12), 18=-45 (LC 12), 20=-35 (LC 12), 21=-52 (LC 12), 22=-50 (LC 12), 23=-50 (LC 12), 24=-52 (LC 12), 25=-48 (LC 12), 27=-48 (LC 12), 28=-52 (LC 12), 29=-50 (LC 12), 30=-50 (LC 12), 31=-52 (LC 12), 32=-35 (LC 12)							
Max Grav		2=164 (LC 1), 18=164 (LC 1), 20=201 (LC 18), 21=181 (LC 18), 22=186 (LC 18), 23=185 (LC 18), 24=184 (LC 18), 25=193 (LC 18), 26=165 (LC 17), 27=195 (LC 17), 28=183 (LC 17), 29=185 (LC 17), 30=186 (LC 17), 31=181 (LC 17), 32=199 (LC 1)							
FORCES		(lb) - Maximum Compression/Maximum Tension							
TOP CHORD		1-2=0/27, 2-4=-129/138, 4-5=-139/129, 5-6=-125/115, 6-7=-111/100, 7-8=-97/157, 8-9=-86/226, 9-10=-107/293, 10-11=-107/293, 11-12=-85/226, 12-13=-65/157, 13-14=-46/90, 14-15=-57/34, 15-16=-68/48, 16-18=-107/61, 18-19=0/27							

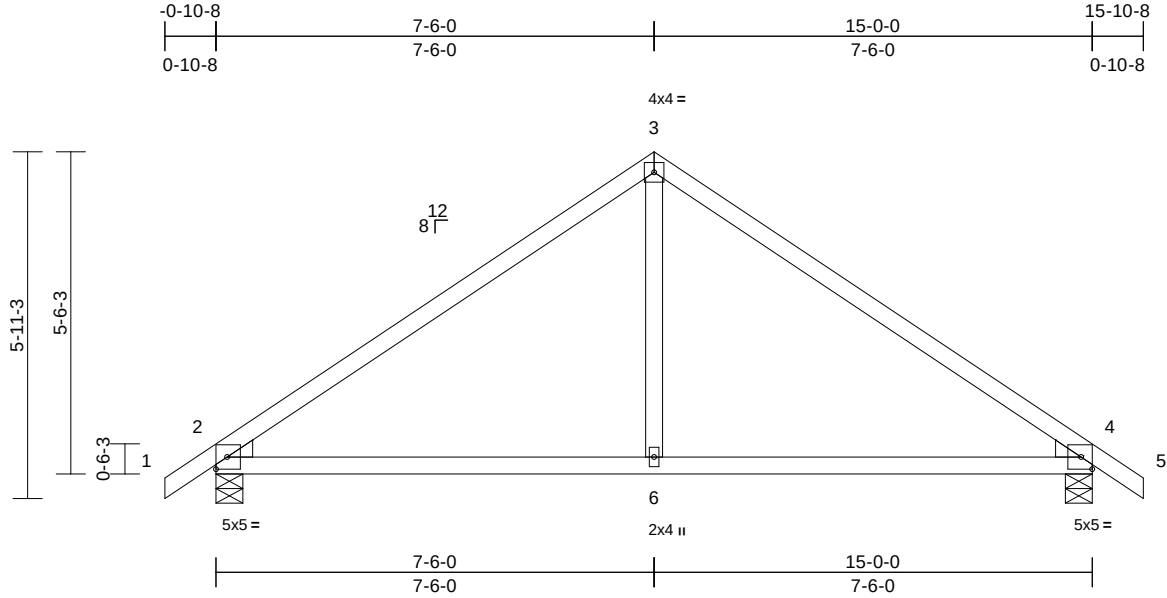
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	Freedom Code Compliance Private Provider Firm or Associated Duty Authorized Representative Plan reviewed for compliance with Florida Building Code Not including roofing, fire, or public works compliance. Plan Not Aligned in Any Way FREEDOM T41083379
3262107	2A	Common	2	1		

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39

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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	0.76	0.18	6-12	>999	240	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.65	-0.20	6-9	>917	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	0.02	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	2=0-5-8, 4=0-5-8
Max Horiz	2=159 (LC 11)
Max Uplift	2=-358 (LC 12), 4=-358 (LC 12)
Max Grav	2=736 (LC 1), 4=736 (LC 1)

FORCES

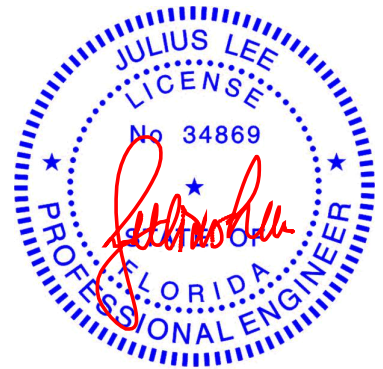
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/34, 2-3=-781/608, 3-4=-781/608, 4-5=0/34
BOT CHORD	2-6=-277/529, 4-6=-277/529
WEBS	3-6=-312/367

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf, BCDL=5.8psf; h=15ft; B=50ft; L=30ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; porch 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'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 358 lb uplift at joint 2 and 358 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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:

May 6, 2026

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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MiTek®

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

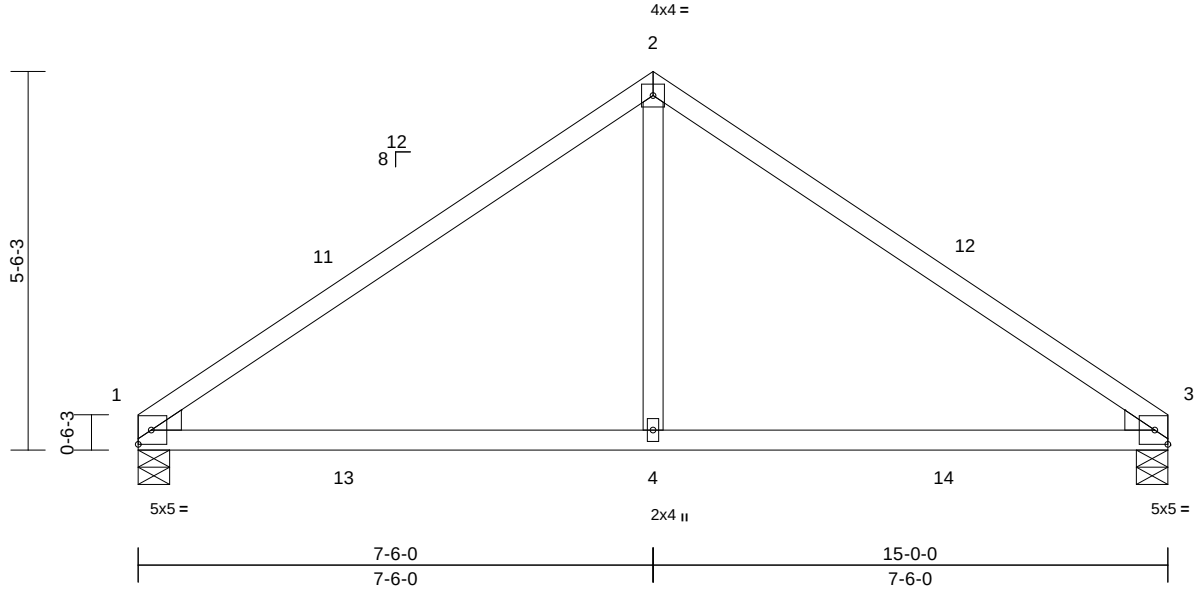
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	2B	Common	1	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39

Page: 1

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Scale = 1:33.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.10	4-10	>999	360	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.20	4-10	>885	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horz(CT)	-0.02	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Wind(LL)	0.24	4-7	>765	240	Weight: 58 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=0-5-8, 3=0-5-8
 Max Horiz 1=-142 (LC 10)
 Max Uplift 1=-317 (LC 12), 3=-317 (LC 12)
 Max Grav 1=675 (LC 1), 3=675 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-788/850, 2-3=-788/850
 BOT CHORD 1-4=-549/535, 3-4=-549/535
 WEBS 2-4=-638/369

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=160mph (3-second gust)
 Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
 B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0,
 Zone1 3-0-0 to 7-6-0, Zone2 7-6-0 to 11-8-15, Zone1
 11-8-15 to 15-0-0 zone; cantilever left and right exposed ;
 porch 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.

- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 317 lb uplift at joint
 1 and 317 lb uplift at joint 3.
- This truss design requires that a minimum of 7/16"
 structural wood sheathing be applied directly to the top
 chord and 1/2" gypsum sheetrock be applied directly to
 the bottom chord.

LOAD CASE(S) Standard



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

May 6, 2026

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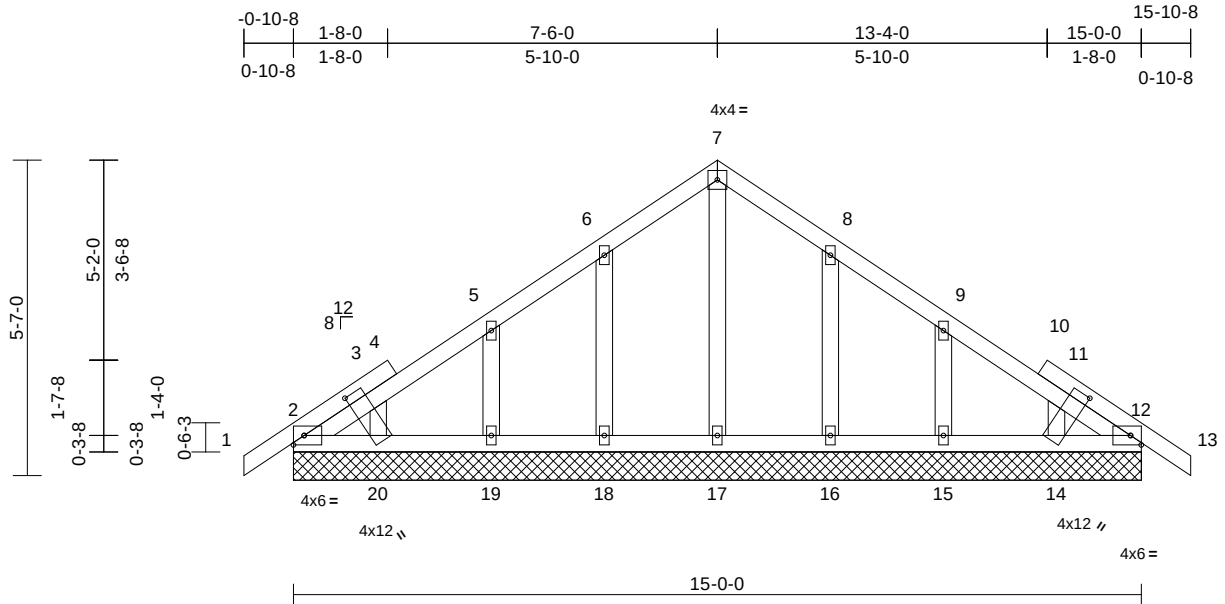
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	2C	Common Supported Gable	1	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39
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Page: 1



Scale = 1:40.8

Plate Offsets (X, Y): [14:0-1-12,0-11-9], [20:0-1-12,0-11-9]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	24	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
Weight: 82 lb FT = 20%											

LUMBER

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

BRACING

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

REACTIONS

(size)	2=15-0-0, 12=15-0-0, 14=15-0-0, 15=15-0-0, 16=15-0-0, 17=15-0-0, 18=15-0-0, 19=15-0-0, 20=15-0-0
Max Horiz	2=-149 (LC 10)
Max Uplift	2=-30 (LC 12), 12=-30 (LC 12), 14=-47 (LC 12), 15=-61 (LC 12), 16=-74 (LC 12), 18=-74 (LC 12), 19=-61 (LC 12), 20=-47 (LC 12)
Max Grav	2=131 (LC 1), 12=131 (LC 1), 14=178 (LC 18), 15=187 (LC 18), 16=214 (LC 18), 17=145 (LC 17), 18=215 (LC 17), 19=184 (LC 17), 20=178 (LC 17)

FORCES

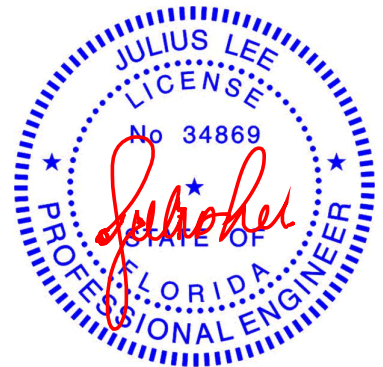
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/34, 2-3=-104/111, 3-5=-92/94, 5-6=-90/81, 6-7=-116/194, 7-8=-116/194, 8-9=-56/82, 9-11=-46/43, 11-12=-107/71, 12-13=0/34
BOT CHORD	2-20=-62/156, 19-20=-62/156, 18-19=-62/156, 17-18=-62/156, 16-17=-62/156, 15-16=-62/156, 14-15=-62/156, 12-14=-62/156
WEBS	7-17=-122/16, 6-18=-175/187, 5-19=-144/160, 3-20=-144/146, 8-16=-174/188, 9-15=-146/160, 11-14=-144/145

NOTES

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

- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft; B=50ft; L=30ft; eave=0ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 30 lb uplift at joint 12, 74 lb uplift at joint 18, 61 lb uplift at joint 19, 47 lb uplift at joint 20, 74 lb uplift at joint 16, 61 lb uplift at joint 15, 47 lb uplift at joint 14, 30 lb uplift at joint 2 and 30 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:

May 6,2026

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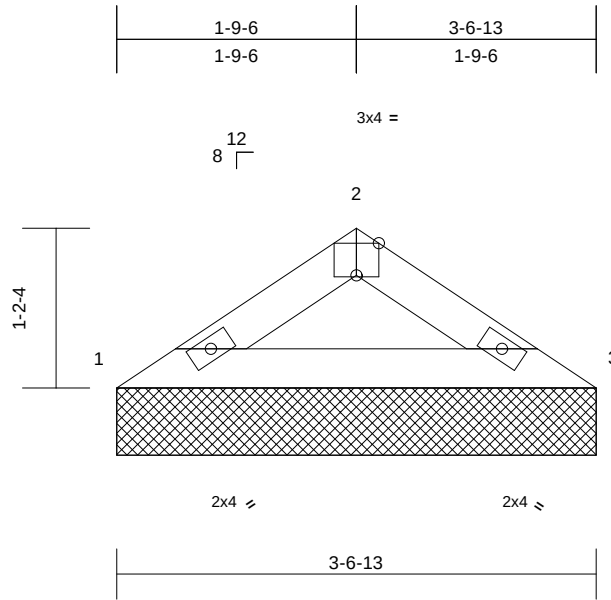
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
3262107	V4	Valley	1	1	Job Reference (optional)

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:39
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Page: 1



Scale = 1:17.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	15.0	Lumber DOL	1.25	BC	0.09	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 10 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

1=3-6-13, 3=3-6-13
 Max Horiz 1=29 (LC 11)
 Max Uplift 1=-29 (LC 12), 3=-29 (LC 12)
 Max Grav 1=160 (LC 1), 3=160 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

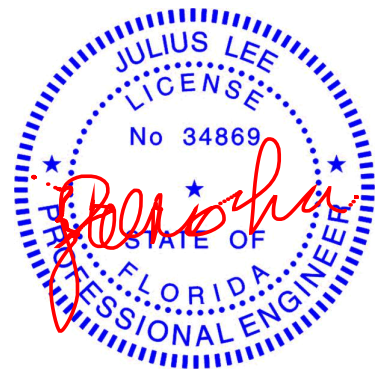
TOP CHORD 1-2=-240/211, 2-3=-240/211
 BOT CHORD 1-3=-156/198

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=160mph (3-second gust)
 Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
 B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 29 lb uplift at joint 3.

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:

May 6,2026

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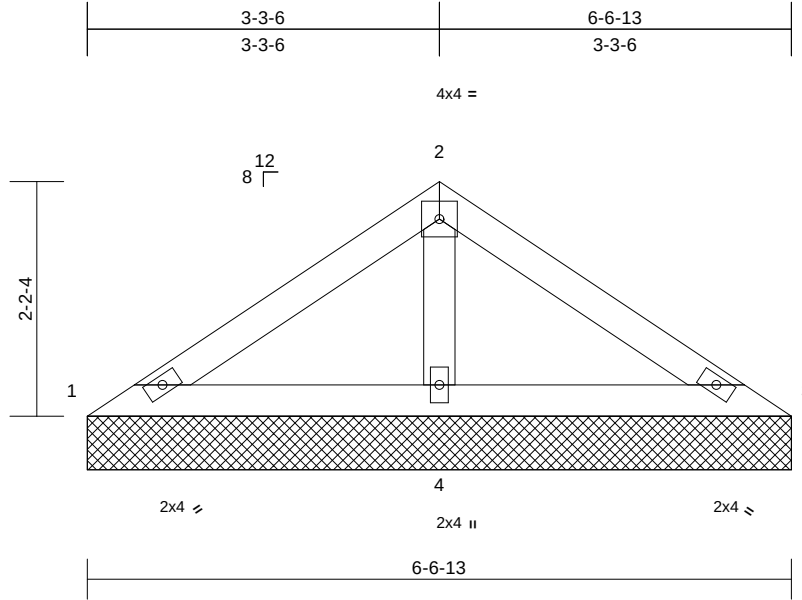
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	V7	Valley	1	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:40
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Page: 1



Scale = 1:21.5

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	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	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.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=6-6-13, 3=6-6-13, 4=6-6-13
 Max Horiz 1=-57 (LC 10)
 Max Uplift 1=-3 (LC 12), 3=-6 (LC 8), 4=-101 (LC 12)
 Max Grav 1=73 (LC 23), 3=73 (LC 24), 4=487 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-151/199, 2-3=-151/199
 BOT CHORD 1-4=-188/246, 3-4=-188/246
 WEBS 2-4=-339/345

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=160mph (3-second gust)
 Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
 B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 zone; cantilever 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.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 6 lb uplift at joint 3 and 101 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:

May 6,2026

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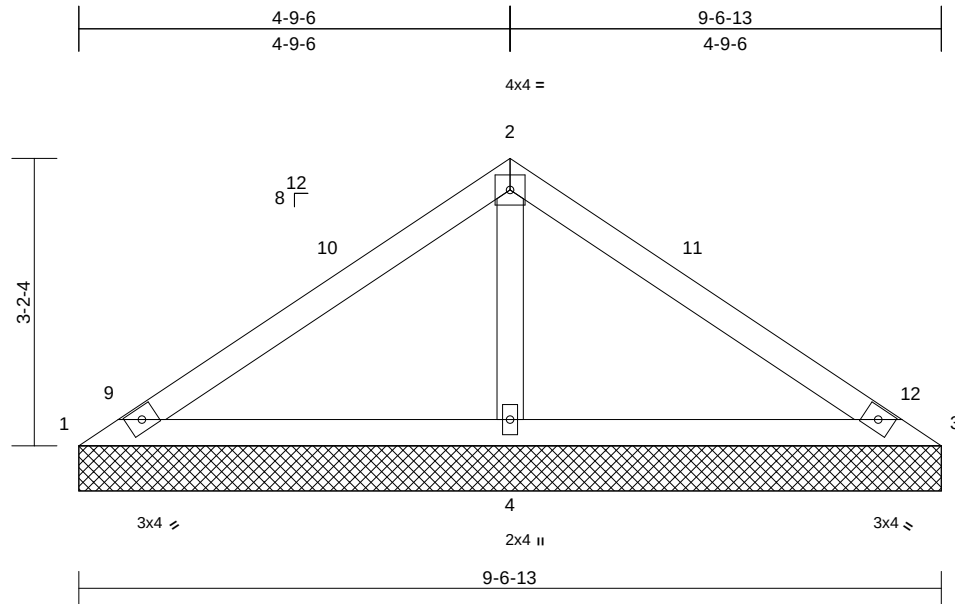
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Not including printing, ink, or plastic waste components. Plan Not Altered in Any Way  T41083384
3262107	V10	Valley	1	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:40
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Page: 1



Scale = 1:25.5

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=9-6-13, 3=9-6-13, 4=9-6-13
Max Horiz	1=-86 (LC 10)
Max Uplift	1=-38 (LC 24), 3=-38 (LC 23), 4=-197 (LC 12)
Max Grav	1=58 (LC 23), 3=58 (LC 24), 4=836 (LC 1)

FORCES

TOP CHORD	1-2=-283/413, 2-3=-287/413
BOT CHORD	1-4=-371/367, 3-4=-371/367
WEBS	2-4=-644/496

NOTES

- 1) Unbalanced roof 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) Wind: ASCE 7-22; Vult=160mph (3-second gust)
Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft;
B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-0 to 3-0-0,
Zone1 3-0-0 to 4-9-6, Zone2 4-9-6 to 9-0-5, Zone1 9-0-5
to 9-6-13 zone; cantilever left and right exposed ;C-C for
members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord
live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 38 lb uplift at joint 3 and 197 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:

May 6, 2026



WARNING – Verify design parameters and READ NOTES ON THIS and INCLUDED REFERENCED PAGE MIP-473 (rev. 12/2023) 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.tpinet.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com).

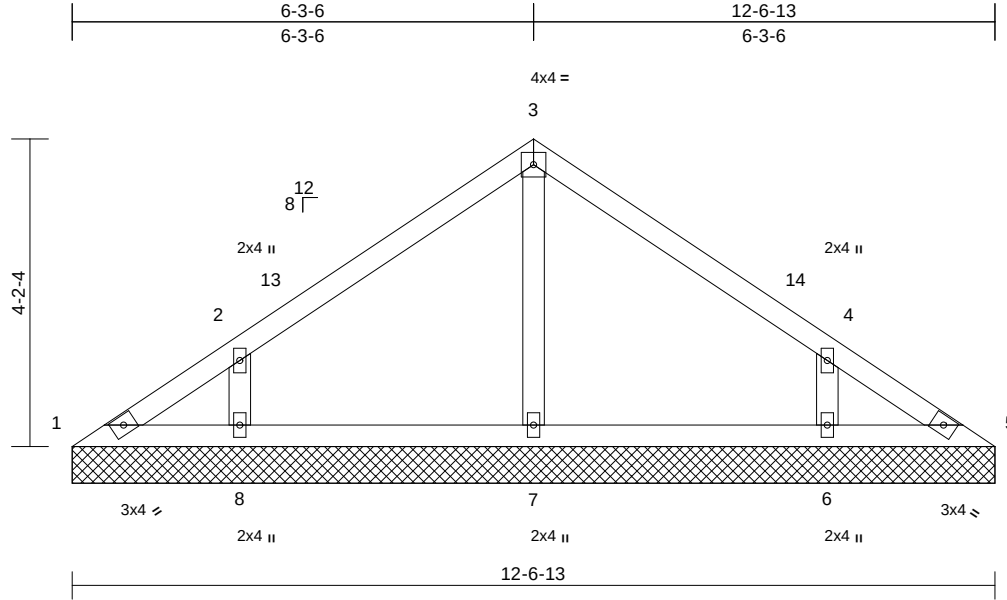
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3262107	V13	Valley	1	1	

Tibbetts Lumber Company (Lehigh Acres, FL), Lehigh Acres, FL - 33971,

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue May 05 14:39:40
 ID:p5hbdL2QrHHvAeukaXxOzy9kGw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCDoi7J4zJC?f

Page: 1



Scale = 1:31.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	15.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 48 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=12-6-13, 5=12-6-13, 6=12-6-13, 7=12-6-13, 8=12-6-13
 Max Horiz 1=-114 (LC 10)
 Max Uplift 1=-7 (LC 8), 6=-135 (LC 12), 8=-135 (LC 12)
 Max Grav 1=86 (LC 18), 5=66 (LC 17), 6=390 (LC 18), 7=268 (LC 1), 8=392 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-114/108, 2-3=-147/151, 3-4=-137/153, 4-5=-82/68
 BOT CHORD 1-8=-27/80, 7-8=-27/60, 6-7=-27/60, 5-6=-27/65
 WEBS 3-7=-181/1, 2-8=-339/335, 4-6=-339/335

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=160mph (3-second gust) Vasd=124mph; TCDL=4.2psf; BCDL=5.8psf; h=15ft; B=50ft; L=30ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-3-6, Zone2 6-3-6 to 10-3-6, Zone1 10-3-6 to 12-6-13 zone; cantilever 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.

- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1, 135 lb uplift at joint 8 and 135 lb uplift at joint 6.

LOAD CASE(S) Standard



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 Date:

May 6, 2026

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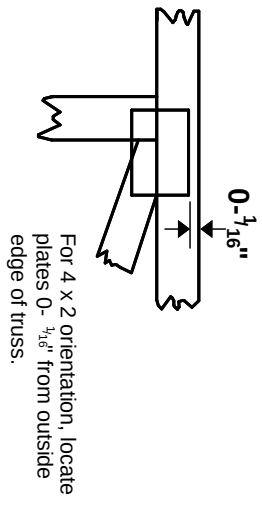
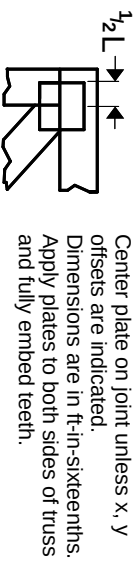
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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Symbols

PLATE LOCATION AND ORIENTATION



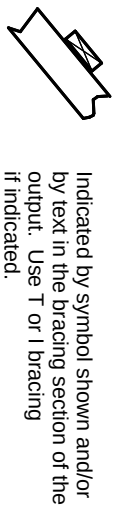
—
This symbol indicates the required direction of slots in connector plates.

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

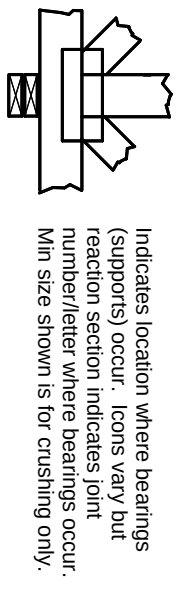
PLATE SIZE

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

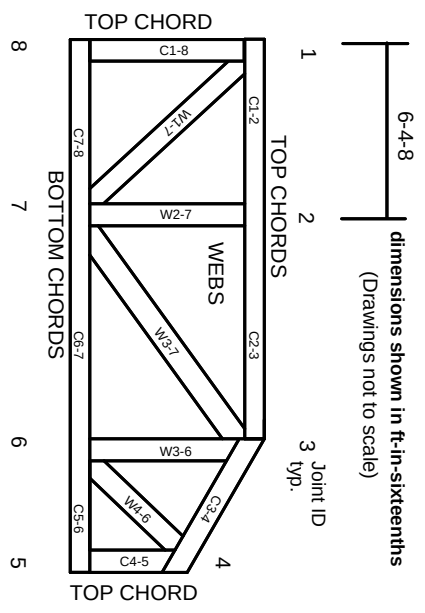


BEARING



Industry Standards:
ANSI/TPI.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/TPI 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.