

RE: 1684-A
Weaver Residence

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

Site Information:

Customer: Parrish Builders Group Project Name: 1684-A
Lot/Block: . Model: .
Address: ., . Subdivision: .
City: Columbia County State: FL

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

Name: . License #: .
Address: .
City, County: . State: .

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

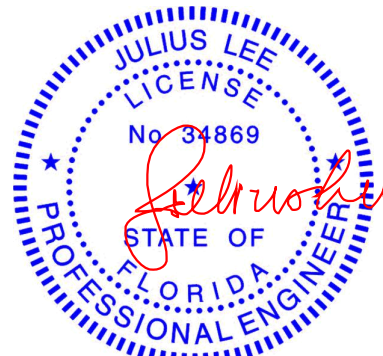
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 14 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	T35450856	BJ3	11/4/2024
2	T35450857	BJ5	11/4/2024
3	T35450858	CJ7	11/4/2024
4	T35450859	EJ5	11/4/2024
5	T35450860	EJ5A	11/4/2024
6	T35450861	G1	11/4/2024
7	T35450862	G2	11/4/2024
8	T35450863	GA0	11/4/2024
9	T35450864	GR1	11/4/2024
10	T35450865	HGR22	11/4/2024
11	T35450866	T1	11/4/2024
12	T35450867	T2	11/4/2024
13	T35450868	T3	11/4/2024
14	T35450869	T4	11/4/2024

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.
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:

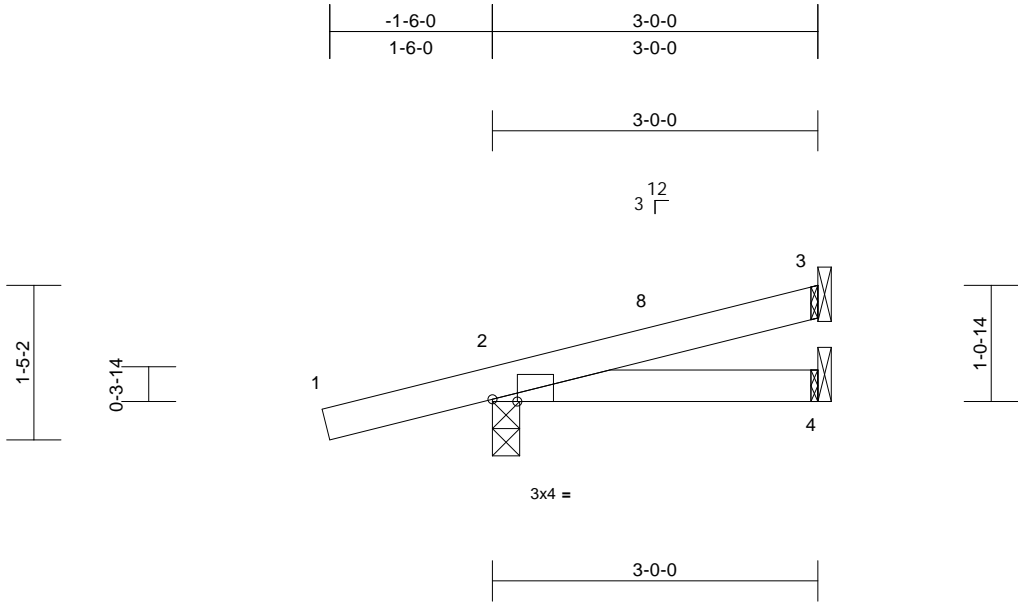
November 04, 2024

Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	BJ3	Corner Jack	4	1	T35450856
					Job Reference (optional)

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:07
ID:KdbXXbBAEnVI90__3_1W?yOWOT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



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Plate Offsets (X, Y): [2:0-2-12,Edge]											
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	0.18	Vert(LL)	0.00	4-7	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	4-7	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 11 lb
											FT = 20%

LUMBER		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 3 and 105 lb uplift at joint 2.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS (size)		
	2=0-3-0, 3= Mechanical, 4= Mechanical	
	Max Horiz 2=48 (LC 8)	
	Max Uplift 2=-105 (LC 8), 3=-25 (LC 12)	
	Max Grav 2=234 (LC 1), 3=61 (LC 1), 4=47 (LC 3)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/22, 2-3=-81/13	
BOT CHORD	2-4=-1/66	

NOTES	
1)	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 -1-6-7 to 1-5-9, Zone1 1-5-9 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2)	Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5)	Bearings are assumed to be: , Joint 2 SP No.2 .
6)	Refer to girder(s) for truss to truss connections.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 4,2024

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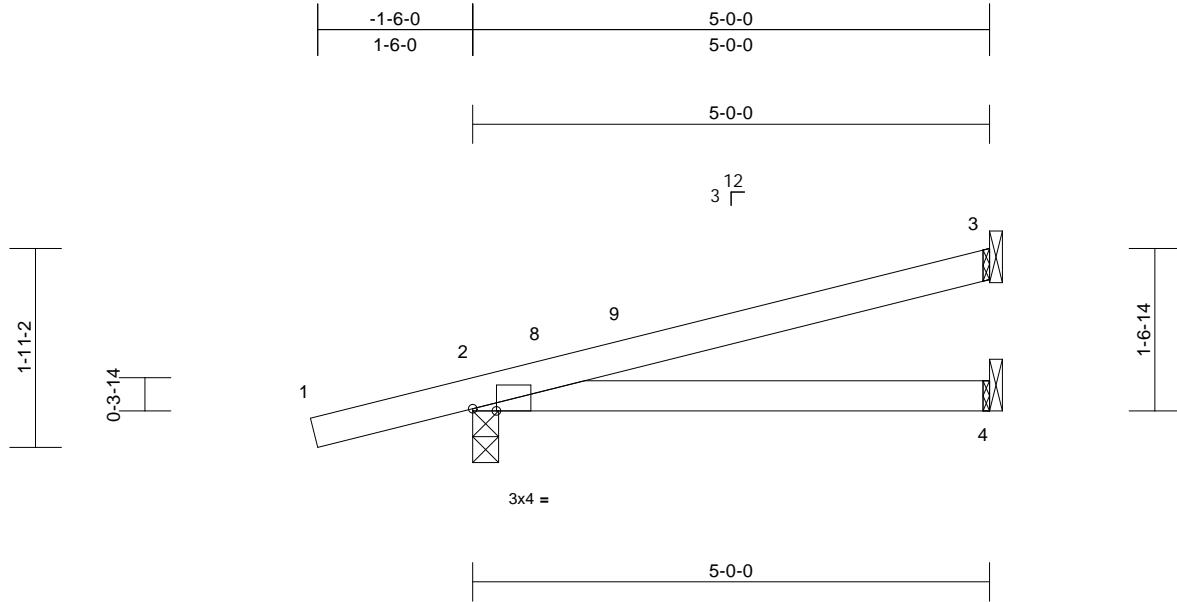
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	BJ5	Corner Jack	4	1	Job Reference (optional)
					T35450857

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:08
ID:KdbXXbBAEnVI90__3_1W?yOWOT-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:18.4											
Plate Offsets (X, Y): [2:0-2-12,Edge]											
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	0.28	Vert(LL)	0.03	4-7	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 18 lb
											FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (size) 2=0-3-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=67 (LC 8)
Max Uplift 2=-114 (LC 8), 3=-53 (LC 12)
Max Grav 2=304 (LC 1), 3=121 (LC 1), 4=87 (LC 3)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-102/24
BOT CHORD 2-4=-51/108

NOTES
1) 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 -1-6-7 to 1-5-9, Zone1 1-5-9 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Bearings are assumed to be: , Joint 2 SP No.2 .
6) Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 114 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:

November 4, 2024

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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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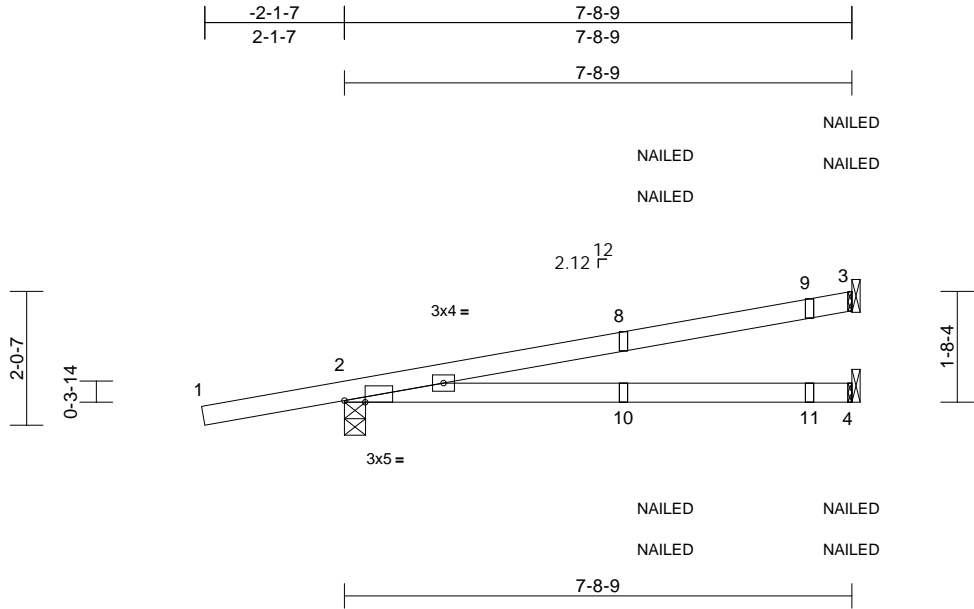
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	CJ7	Diagonal Hip Girder	2	1	T35450858
					Job Reference (optional)

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:08
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Page: 1



Scale = 1:24.2

Plate Offsets (X, Y): [2:0-3-13,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	0.99	Vert(LL)	-0.18	4-7	>523	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.38	4-7	>239	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 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) 2=0-3-14, 3= Mechanical, 4= Mechanical
Max Horiz 2=72 (LC 4)
Max Uplift 2=-170 (LC 4), 3=-124 (LC 8)
Max Grav 2=475 (LC 1), 3=303 (LC 1), 4=224 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-224/47

BOT CHORD 2-4=-21/210

NOTES

- 1) 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 3 and 170 lb uplift at joint 2.

8) "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.

9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=-121 (F=-61, B=-61), 10=-14 (F=-7, B=-7), 11=-85 (F=-43, B=-43)



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

November 4, 2024

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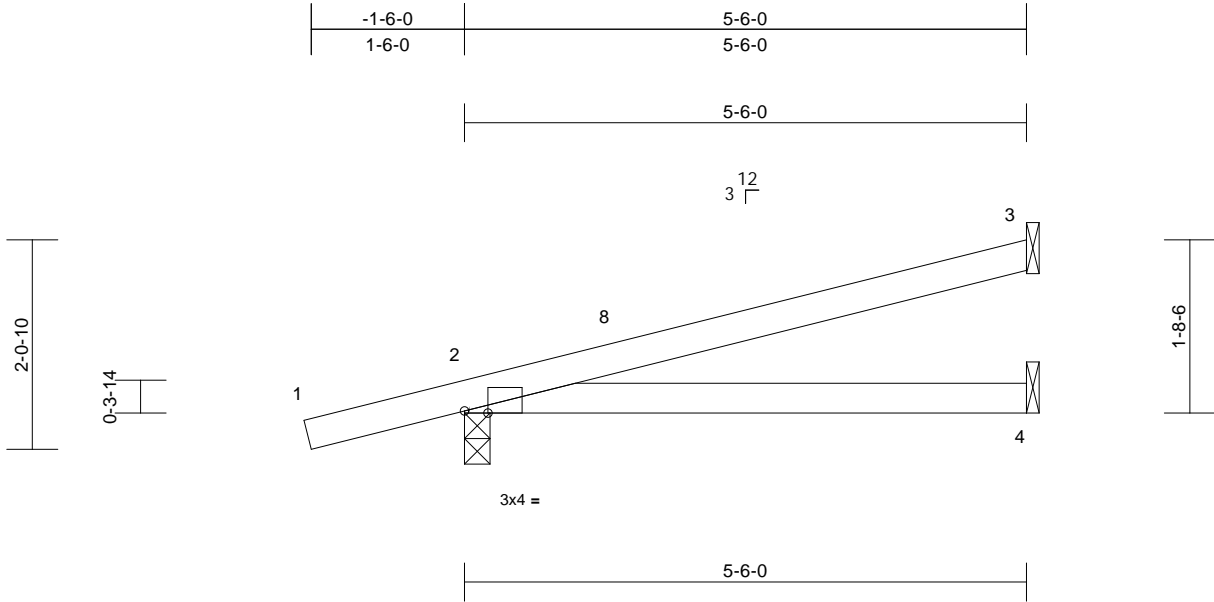
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	EJ5	Jack-Open	2	1	T35450859
					Job Reference (optional)

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

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Page: 1



Scale = 1:19.1

Plate Offsets (X, Y): [2:0-2-12,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	0.36	Vert(LL)	0.05	4-7	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.08	4-7	>798	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
Weight: 19 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or
5-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4=
Mechanical
Max Horiz 2=72 (LC 8)
Max Uplift 2=-117 (LC 8), 3=-60 (LC 12)
Max Grav 2=323 (LC 1), 3=135 (LC 1), 4=96
(LC 3)

FORCES (lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/22, 2-3=-115/26
BOT CHORD 2-4=-58/121

NOTES

- 1) 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 -1-6-7 to 1-5-9, Zone1 1-5-9 to
5-5-4 zone; cantilever left and right exposed ; end
vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 60 lb uplift at joint
3 and 117 lb uplift at joint 2.
LOAD CASE(S) Standard



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

November 4,2024

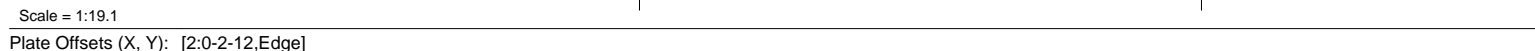
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:08 Page: 1
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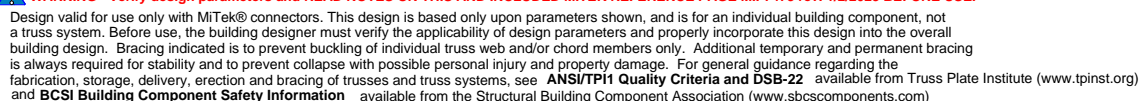


LUMBER		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 3 and 117 lb uplift at joint 2.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 5-6-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 2=0-3-0, 3= Mechanical, 4= Mechanical	
	Max Horiz 2=72 (LC 8)	
	Max Uplift 2=-117 (LC 8), 3=-60 (LC 12)	
	Max Grav 2=323 (LC 1), 3=135 (LC 1), 4=96 (LC 3)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/22, 2-3=-115/26	
BOT CHORD	2-4=-58/121	

- 1) 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 -1-6-7 to 1-5-9, Zone1 1-5-9 to 5-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be ; Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



November 4, 2024



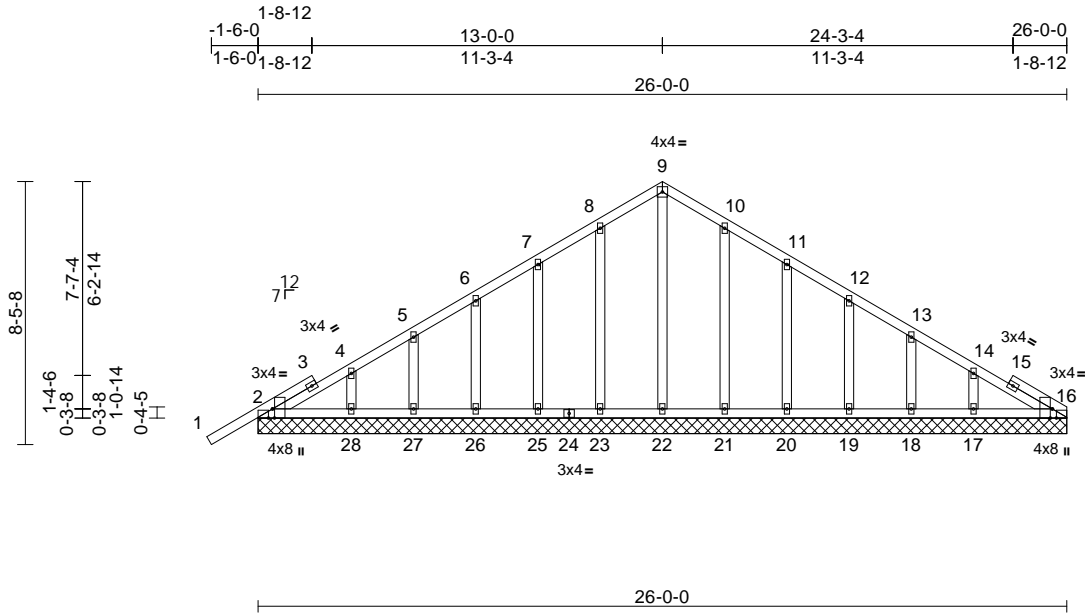
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450861
1684-A	G1	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:09
ID:op9vkxCo?4dcnAZAchY_2DyOWOS-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.3									
Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-1-9,Edge], [16:0-3-8,Edge], [16:0-1-9,Edge]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	16	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 154 lb FT = 20%									

LUMBER		BOT CHORD		NOTES	
TOP CHORD	2x4 SP No.2	2-28=-61/122, 27-28=-61/122,		1) Unbalanced roof live loads have been considered for this design.	
BOT CHORD	2x4 SP No.2	26-27=-61/122, 25-26=-61/122,		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 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	
OTHERS	2x4 SP No.2	23-25=-61/122, 22-23=-61/122,		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.	
BRACING		WEBS		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.	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	9-22=-139/25, 8-23=-137/84, 7-25=-126/85,		5) All plates are 2x4 () MT20 unless otherwise indicated.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	6-26=-129/83, 5-27=-125/86, 4-28=-142/70,		6) Gable requires continuous bottom chord bearing.	
REACTIONS (size)		10-21=-135/82, 11-20=-126/85,		7) Gable studs spaced at 2-0-0 oc.	
		12-19=-130/83, 13-18=-118/82,		8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
		14-17=-165/86		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.	
				10) All bearings are assumed to be SP No.2 .	
FORCES (lb) - Maximum Compression/Maximum Tension		NOTES		LOAD CASE(S) Standard	
TOP CHORD	1-2=0/48, 2-4=-150/141, 4-5=-126/120, 5-6=-104/104, 6-7=-92/114, 7-8=-81/144, 8-9=-103/171, 9-10=-103/162, 10-11=-76/117, 11-12=-49/69, 12-13=-49/39, 13-14=-66/46, 14-16=-106/78				



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

November 4, 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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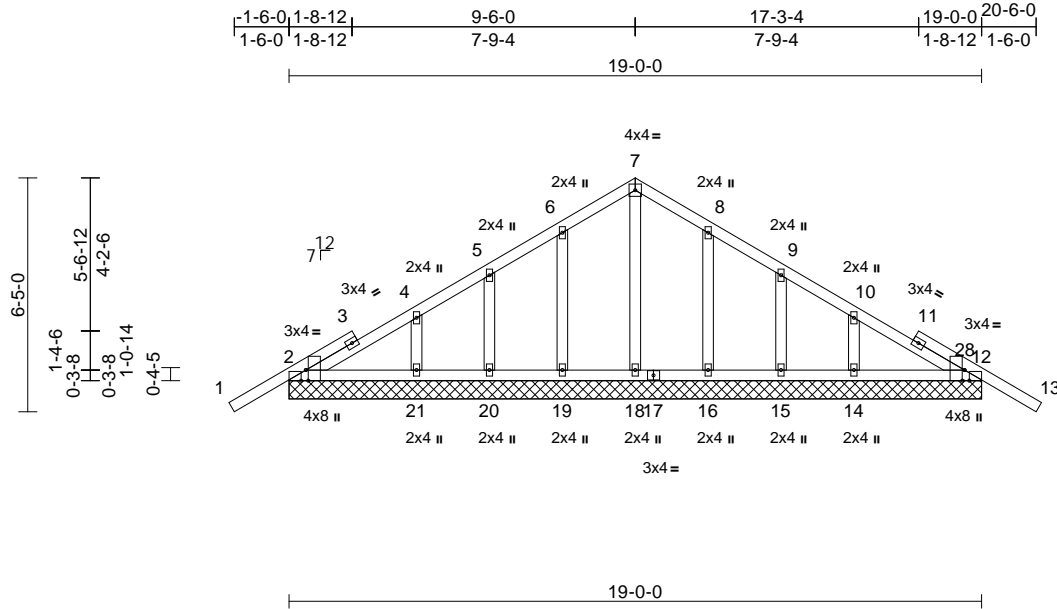
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450862
1684-A	G2	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:09
ID:op9vKxCo?4dcnAZAchY_2DyOWOS-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:57.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-1-9,Edge], [12:0-3-8,Edge], [12:0-1-9,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	0.16	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	25	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 102 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=19-0-0, 12=19-0-0, 14=19-0-0, 15=19-0-0, 16=19-0-0, 18=19-0-0, 19=19-0-0, 20=19-0-0, 21=19-0-0, 22=19-0-0, 25=19-0-0
Max Horiz		2=-152 (LC 10), 22=-152 (LC 10)
Max Uplift		2=-36 (LC 12), 12=-50 (LC 13), 14=-75 (LC 13), 15=-60 (LC 13), 16=-66 (LC 13), 19=-67 (LC 12), 20=-61 (LC 12), 21=-71 (LC 12), 22=-36 (LC 12), 25=-50 (LC 13)
Max Grav		2=236 (LC 25), 12=220 (LC 26), 14=245 (LC 20), 15=140 (LC 20), 16=183 (LC 20), 18=172 (LC 22), 19=184 (LC 19), 20=140 (LC 19), 21=242 (LC 19), 22=236 (LC 25), 25=220 (LC 26)

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/48, 2-4=-93/119, 4-5=-77/87, 5-6=-58/102, 6-7=-73/151, 7-8=-73/151, 8-9=-40/95, 9-10=-30/44, 10-12=-70/74, 12-13=0/48
BOT CHORD	2-21=-62/113, 20-21=-62/113, 19-20=-62/113, 18-19=-62/113, 16-18=-62/113, 15-16=-62/113, 14-15=-62/113, 12-14=-62/113
WEBS	7-18=-134/0, 6-19=-141/93, 5-20=-112/92, 4-21=-171/107, 8-16=-140/93, 9-15=-112/92, 10-14=-174/106

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 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 36 lb uplift at joint 2, 50 lb uplift at joint 12, 67 lb uplift at joint 19, 61 lb uplift at joint 20, 71 lb uplift at joint 21, 66 lb uplift at joint 16, 60 lb uplift at joint 15, 75 lb uplift at joint 14, 36 lb uplift at joint 2 and 50 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:

November 4, 2024

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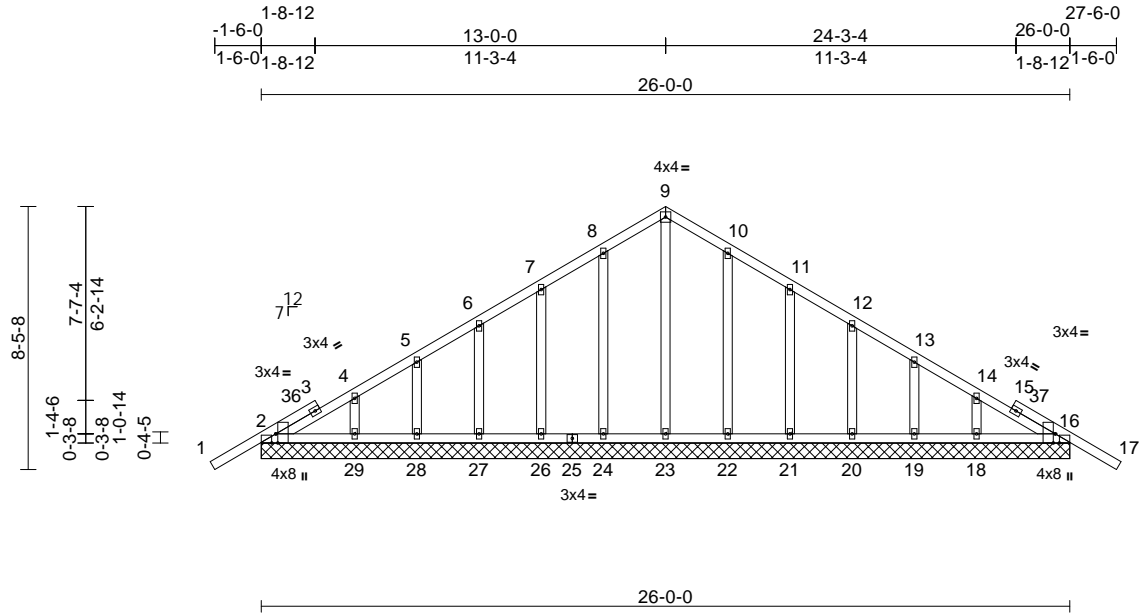
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450863
1684-A	GA0	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:09
ID:G?jHyHDQmOITOK8NAP3DbQyOWOR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?i

Page: 1



Scale = 1:65.3												
Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-1-9,Edge], [16:0-3-8,Edge], [16:0-1-9,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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	33	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 157 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=26-0-0, 16=26-0-0, 18=26-0-0, 19=26-0-0, 20=26-0-0, 21=26-0-0, 22=26-0-0, 23=26-0-0, 24=26-0-0, 26=26-0-0, 27=26-0-0, 28=26-0-0, 29=26-0-0, 30=26-0-0, 33=26-0-0
Max Horiz 2=202 (LC 11), 30=202 (LC 11)
Max Uplift 2=-29 (LC 13), 16=-35 (LC 13), 18=-54 (LC 13), 19=-66 (LC 13), 20=-62 (LC 13), 21=-66 (LC 13), 22=-62 (LC 13), 24=-64 (LC 12), 26=-65 (LC 12), 27=-62 (LC 12), 28=-68 (LC 12), 29=-48 (LC 12), 30=-29 (LC 13), 33=-35 (LC 13)
Max Grav 2=230 (LC 1), 16=230 (LC 1), 18=203 (LC 20), 19=158 (LC 20), 20=171 (LC 20), 21=166 (LC 20), 22=175 (LC 20), 23=188 (LC 22), 24=177 (LC 19), 26=166 (LC 19), 27=170 (LC 19), 28=160 (LC 19), 29=197 (LC 1), 30=230 (LC 1), 33=230 (LC 1)

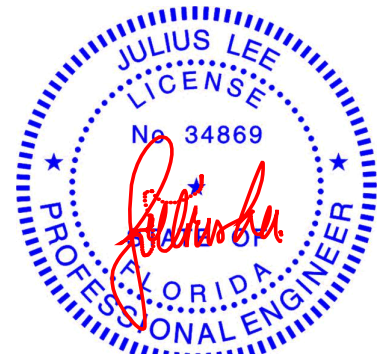
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-4=-144/147, 4-5=-128/126, 5-6=-108/110, 6-7=-96/126, 7-8=-85/157, 8-9=-109/184, 9-10=-109/175, 10-11=-82/123, 11-12=-55/83, 12-13=-45/46, 13-14=-59/44, 14-16=-92/69, 16-17=0/48

BOT CHORD 2-29=-66/141, 28-29=-66/141, 27-28=-66/141, 26-27=-66/141, 24-26=-66/141, 23-24=-66/141, 22-23=-66/141, 21-22=-66/141, 20-21=-66/141, 19-20=-66/141, 18-19=-66/141, 16-18=-66/141
WEBS 9-23=-148/31, 8-24=-137/84, 7-26=-126/85, 6-27=-129/83, 5-28=-125/86, 4-29=-142/71, 10-22=-135/82, 11-21=-127/86, 12-20=-129/83, 13-19=-124/85, 14-18=-147/76

- 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 -1-6-14 to 1-5-2, Zone1 1-5-2 to 13-0-0, Zone2 13-0-0 to 17-0-0, Zone1 17-0-0 to 27-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 2, 35 lb uplift at joint 16, 64 lb uplift at joint 24, 65 lb uplift at joint 26, 62 lb uplift at joint 27, 68 lb uplift at joint 28, 48 lb uplift at joint 29, 62 lb uplift at joint 22, 66 lb uplift at joint 21, 62 lb uplift at joint 20, 66 lb uplift at joint 19, 54 lb uplift at joint 18, 29 lb uplift at joint 2 and 35 lb uplift at joint 16.
- 12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16.

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:

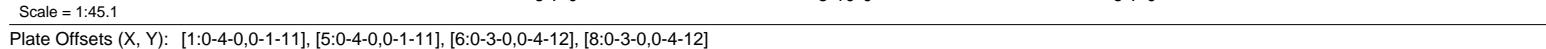
November 4, 2024

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19 Lumber, Inc., Old Town, FL - 32680, Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:09 Page: 1
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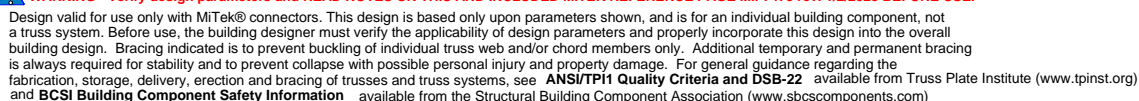
LUMBER		4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=5.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x6 SP 2400F 2.0E	
WEBS	2x4 SP No.2	
BRACING		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.
TOP CHORD	Structural wood sheathing directly applied or 2-7-9 oc purlins.	6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	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.
REACTIONS		8) All bearings are assumed to be SP 2400F 2.0E .
(size)	1=0-4-0, 5=0-4-0	9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 976 lb uplift at joint 1 and 878 lb uplift at joint 5.
Max Horiz	1=-137 (LC 6)	
Max Uplift	1=-976 (LC 8), 5=-878 (LC 9)	
Max Grav	1=6285 (LC 15), 5=5639 (LC 16)	10) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-11-4 from the left end to 16-11-4 to
FORCES		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=-9164/1397, 2-3=-8815/1427, 3-4=-8792/1423, 4-5=-9131/1392	
BOT CHORD	1-8=-1236/7790, 6-8=-766/5293, 5-6=-1139/7664	
WEBS	3-6=-805/4910, 4-6=-375/192, 3-8=-812/4949, 2-8=-385/194	

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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, 1-5=-20
Concentrated Loads (lb)
Vert: 10=-1018 (F), 13=-1017 (F), 14=-1017 (F),
15=-1017 (F), 16=-1017 (F), 17=-1017 (F), 18=-1017 (F),
19=-1017 (F), 20=-1017 (F)



November 4, 2024



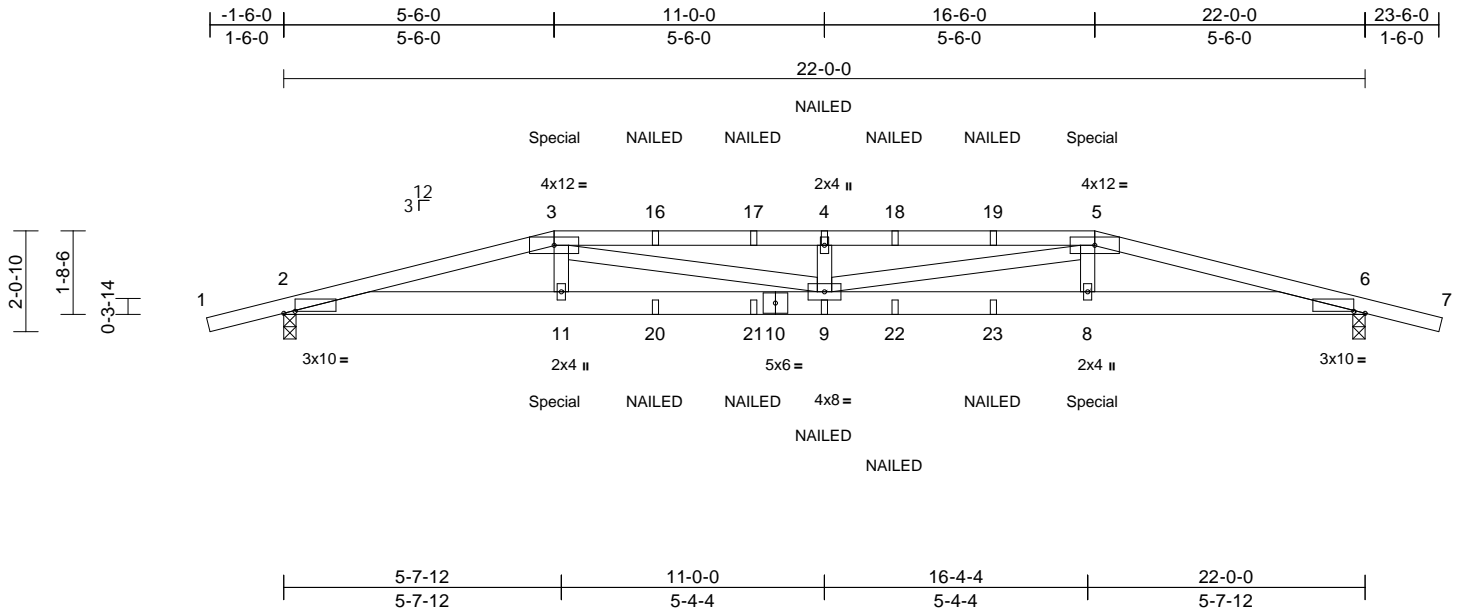
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450865
1684-A	HGR22	Hip Girder	1	2	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:10
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Page: 1



Scale = 1:46.9												
Plate Offsets (X, Y): [2:0-2-12,0-0-8], [6:0-2-12,0-0-8]												
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	0.87	Vert(LL)	-0.27	9	>981	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.54	9	>481	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 218 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 6=0-3-0
Max Horiz 2=32 (LC 25)
Max Uplift 2=356 (LC 4), 6=356 (LC 5)
Max Grav 2=1779 (LC 1), 6=1779 (LC 1)

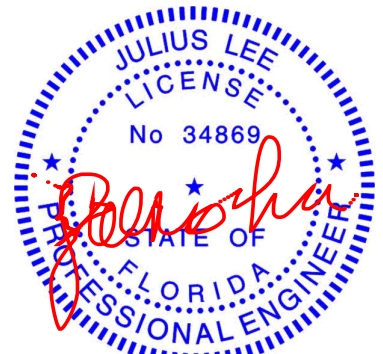
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=6116/961, 3-4=7495/1219, 4-5=7495/1219, 5-6=6116/961, 6-7=0/24
BOT CHORD 2-11=905/5908, 9-11=894/5962, 8-9=863/5962, 6-8=874/5908
WEBS 3-11=0/577, 3-9=327/1670, 4-9=618/290, 5-9=329/1670, 5-8=0/577

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - 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; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- 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 356 lb uplift at joint 2 and 356 lb uplift at joint 6.
- "NAILED" indicates Girder: 3-16d (0.162" x 3.5") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 341 lb down and 169 lb up at 5-6-0, and 341 lb down and 169 lb up at 16-6-0 on top chord, and 223 lb down at 5-6-0, and 223 lb down at 16-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 2-6=-20
Concentrated Loads (lb)
Vert: 3=-293 (F), 5=-293 (F), 11=-205 (F), 9=-50 (F), 4=-75 (F), 8=-205 (F), 16=-75 (F), 17=-75 (F), 18=-75 (F), 19=-75 (F), 20=-50 (F), 21=-50 (F), 22=-50 (F), 23=-50 (F)



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

November 4, 2024

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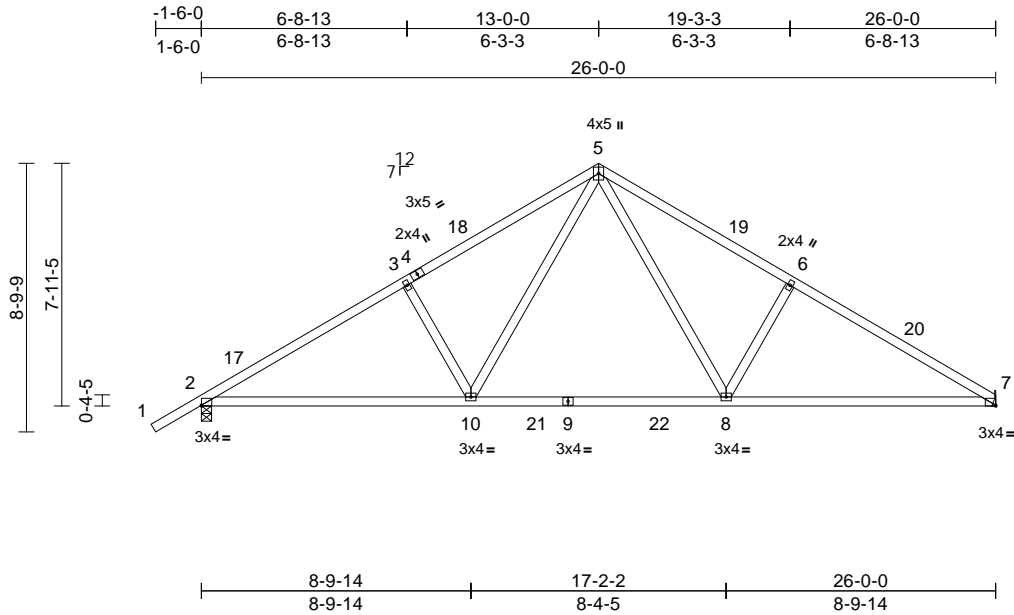
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450866
1684-A	T1	Common	9	1	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:10
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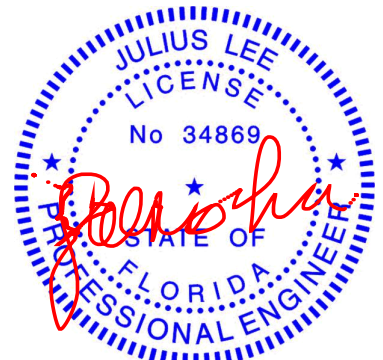


Scale = 1:68.5												
Plate Offsets (X, Y): [2:Edge,0-0-4], [7:Edge,0-0-4]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.32	8-13	>987	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 124 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 or 3-8-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 2=0-4-0, 7= Mechanical
	Max Horiz 2=202 (LC 11)
	Max Uplift 2=-207 (LC 12), 7=-169 (LC 13)
	Max Grav 2=1281 (LC 19), 7=1188 (LC 20)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/48, 2-3=-1811/269, 3-5=-1681/307, 5-6=-1693/315, 6-7=-1823/276
BOT CHORD	2-10=-270/1651, 8-10=-71/1057, 7-8=-152/1524
WEBS	5-8=-170/834, 6-8=-424/257, 5-10=-161/819, 3-10=-416/252

- 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 -1-6-14 to 1-5-2, Zone1 1-5-2 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 26-0-0 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 No.2 .
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 7 and 207 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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Date:

November 4, 2024

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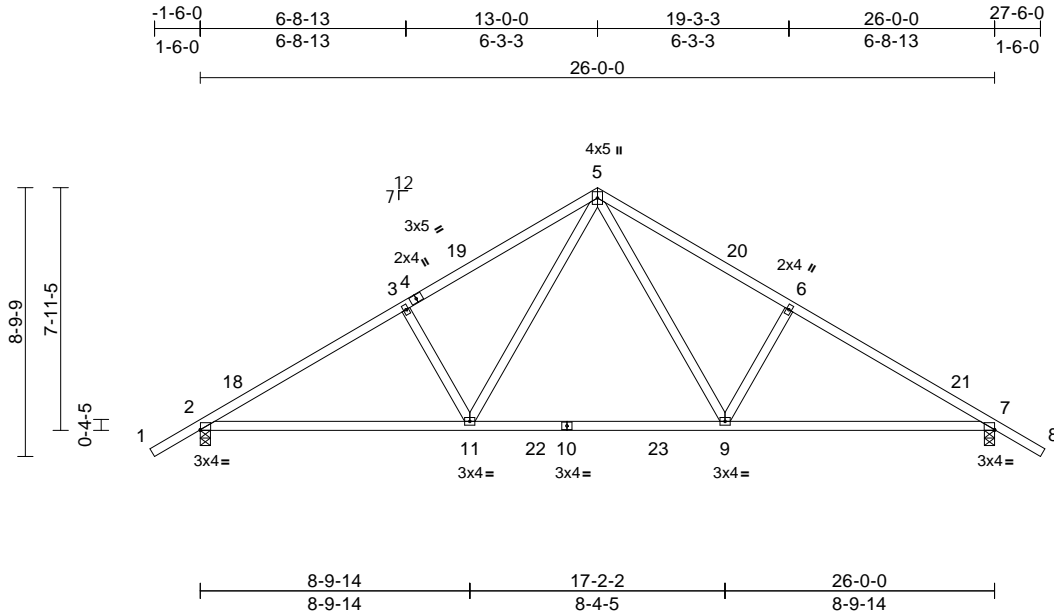
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	T2	Common	11	1	T35450867
					Job Reference (optional)

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:10
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Page: 1



Scale = 1:68.5

Plate Offsets (X, Y): [2:Edge,0-0-4], [7:Edge,0-0-4]

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	0.52	Vert(LL)	-0.18	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.30	9-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 127 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 or 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-0, 7=0-4-0
Max Horiz 2=210 (LC 11)
Max Uplift 2=-206 (LC 12), 7=-206 (LC 13)
Max Grav 2=1279 (LC 19), 7=1279 (LC 20)

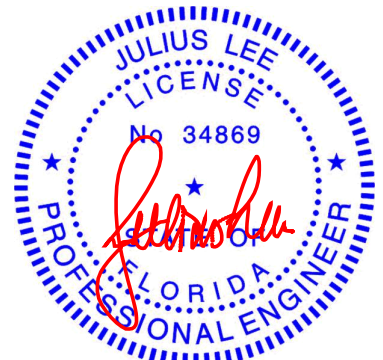
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-1808/268, 3-5=-1678/306, 5-6=-1678/306, 6-7=-1808/268, 7-8=0/48
BOT CHORD 2-11=-254/1659, 9-11=-55/1065, 7-9=-113/1502
WEBS 5-9=-161/820, 6-9=-416/252, 5-11=-161/819, 3-11=-416/252

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 -1-6-14 to 1-5-2, Zone1 1-5-2 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 27-6-14 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 206 lb uplift at joint 2 and 206 lb uplift at joint 7.

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:

November 4, 2024

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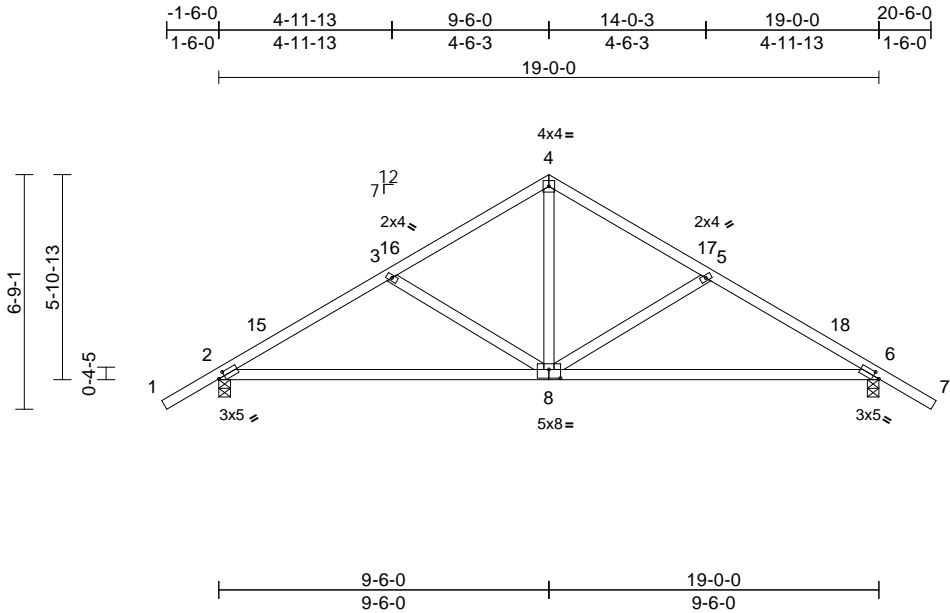
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Weaver Residence
1684-A	T3	Common	10	1	T35450868
					Job Reference (optional)

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:10
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Page: 1



Scale = 1:60.4

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

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	0.39	Vert(LL)	-0.13	8-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.28	8-14	>822	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 90 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 or 5-3-6 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=-160 (LC 10)
Max Uplift 2=-161 (LC 12), 6=-161 (LC 13)
Max Grav 2=854 (LC 1), 6=854 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/48, 2-3=-1129/203, 3-4=-859/165,
4-5=-859/165, 5-6=-1129/203, 6-7=0/48

BOT CHORD 2-6=-183/959

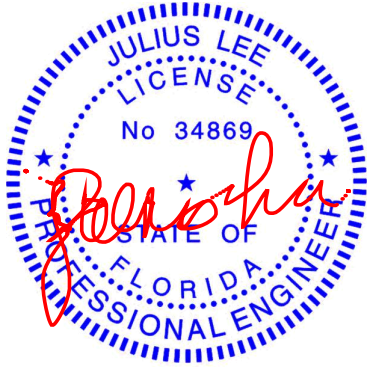
WEBS 4-8=-45/574, 5-8=-348/195, 3-8=-348/194

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 -1-6-14 to 1-5-2, Zone1 1-5-2 to 9-6-0, Zone2 9-6-0 to 13-8-15, Zone1 13-8-15 to 20-6-14 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2 and 161 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:

November 4, 2024

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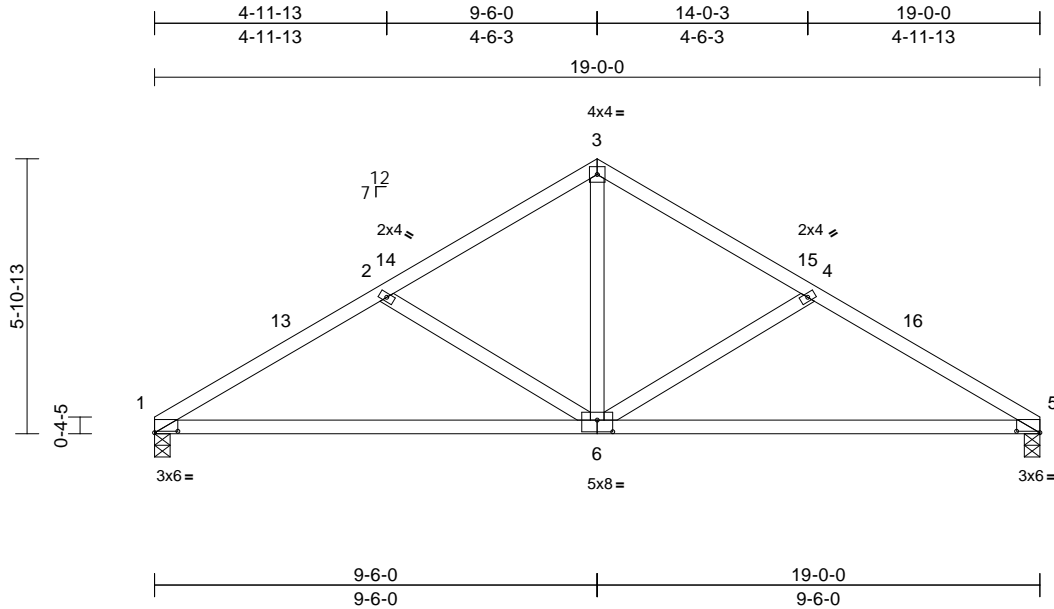
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Weaver Residence	T35450869
1684-A	T4	Common	1	1	Job Reference (optional)	

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

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Mon Nov 04 08:06:10
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Page: 1



Scale = 1:45.1

Plate Offsets (X, Y): [1:0-6-0,0-0-6], [5:0-6-0,0-0-6], [6:0-4-0,0-3-0]

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	0.43	Vert(LL)	-0.13	6-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.28	6-12	>803	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 85 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 or 5-0-9 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=-137 (LC 8)
Max Uplift 1=-124 (LC 12), 5=-124 (LC 13)
Max Grav 1=760 (LC 1), 5=760 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1156/231, 2-3=-878/188, 3-4=-878/188, 4-5=-1156/231
BOT CHORD 1-5=-211/974
WEBS 3-6=-67/582, 4-6=-363/203, 2-6=-362/202

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 9-6-0, Zone2 9-6-0 to 13-8-15, Zone1 13-8-15 to 19-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 1 and 124 lb uplift at joint 5.

LOAD CASE(S) Standard



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

November 4, 2024

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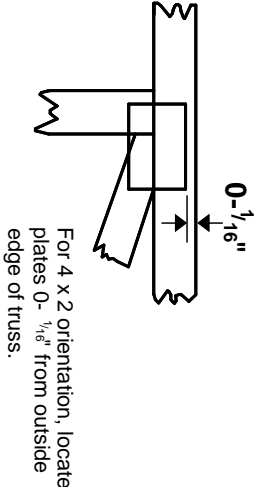
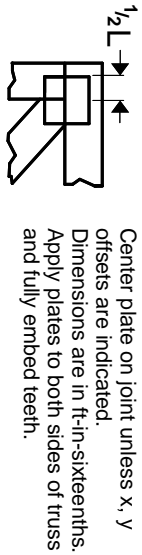
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Symbols

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

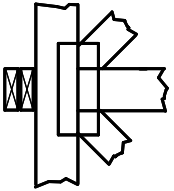
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

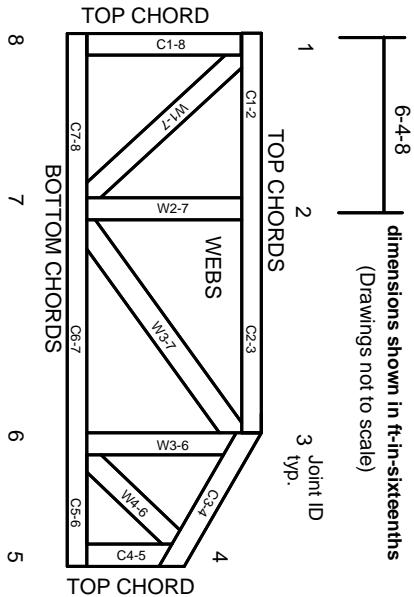
BEARING



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.