



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

RE: 5591906 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: DWC CONTRACTING Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 344 SW Fieldstone Court, N/A
City: Lake City, State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 37 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T41982889	CJ01	7/27/26	15	T41982903	HJ03	7/27/26
2	T41982890	CJ02	7/27/26	16	T41982904	HJ04	7/27/26
3	T41982891	CJ02A	7/27/26	17	T41982905	T03	7/27/26
4	T41982892	CJ03	7/27/26	18	T41982906	T03G	7/27/26
5	T41982893	CJ03A	7/27/26	19	T41982907	T04	7/27/26
6	T41982894	CJ04	7/27/26	20	T41982908	T05	7/27/26
7	T41982895	CJ05	7/27/26	21	T41982909	T06	7/27/26
8	T41982896	EJ01	7/27/26	22	T41982910	T07	7/27/26
9	T41982897	EJ02	7/27/26	23	T41982911	T08	7/27/26
10	T41982898	EJ03	7/27/26	24	T41982912	T09	7/27/26
11	T41982899	EJ04	7/27/26	25	T41982913	T10	7/27/26
12	T41982900	EJ05	7/27/26	26	T41982914	T11	7/27/26
13	T41982901	HJ01	7/27/26	27	T41982915	T12	7/27/26
14	T41982902	HJ02	7/27/26	28	T41982916	T13	7/27/26

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

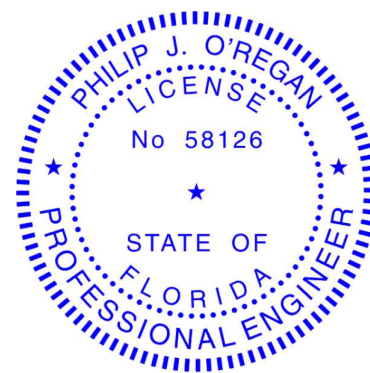
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2027.

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



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

July 27,2026

ORegan, Philip

1 of 2



RE: 5591906 -

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

Site Information:

Customer Info: DWC CONTRACTING Project Name: Spec Hse Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 344 SW Fieldstone Court, N/A
City: Lake City, State: FL

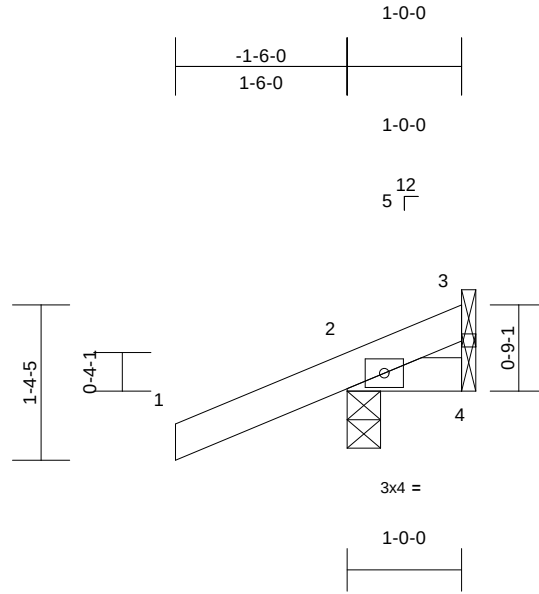
No.	Seal#	Truss Name	Date
29	T41982917	T14	7/27/26
30	T41982918	T15	7/27/26
31	T41982919	T16	7/27/26
32	T41982920	T17	7/27/26
33	T41982921	T18	7/27/26
34	T41982922	T19	7/27/26
35	T41982923	T20	7/27/26
36	T41982924	T21	7/27/26
37	T41982925	T22	7/27/26

Job	Truss	Truss Type	Qty	Ply	
5591906	CJ01	Jack-Open	12	1	T41982889
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



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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	0.15	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 3, 105 lb uplift at joint 2 and 23 lb uplift at joint 4.

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=37 (LC 8)
Max Uplift 2=-105 (LC 8), 3=-6 (LC 1), 4=-23 (LC 1)
Max Grav 2=198 (LC 1), 3=8 (LC 8), 4=17 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-62/43
BOT CHORD 2-4=-47/67

NOTES

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.

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

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

July 27,2026

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

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

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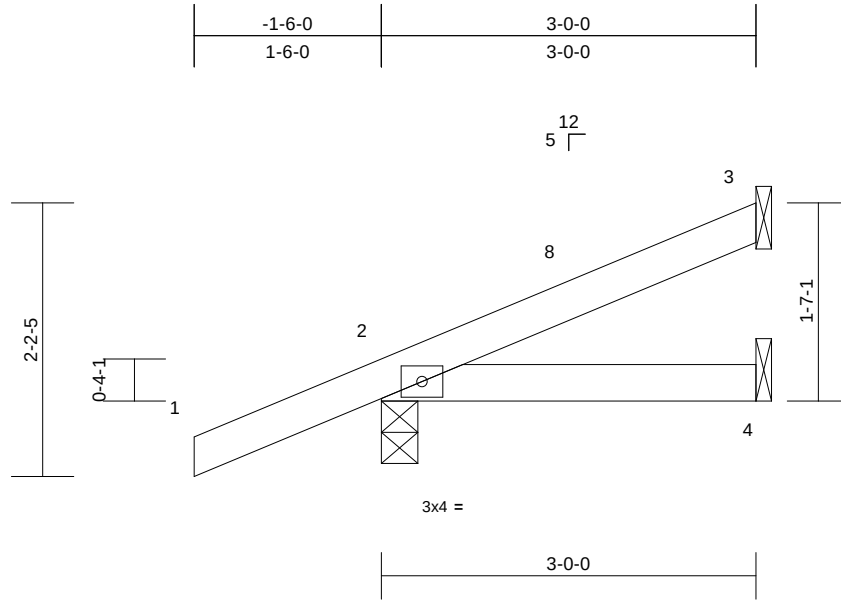
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	CJ02	Jack-Open	9	1	T41982890
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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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	0.15	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 102 lb uplift at joint 2 and 19 lb uplift at joint 4.

BRACING

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.

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=68 (LC 12)
Max Uplift 2=-102 (LC 8), 3=-36 (LC 12), 4=-19 (LC 9)
Max Grav 2=230 (LC 1), 3=64 (LC 1), 4=50 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-75/32
BOT CHORD 2-4=-31/57

NOTES

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.

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

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

July 27,2026

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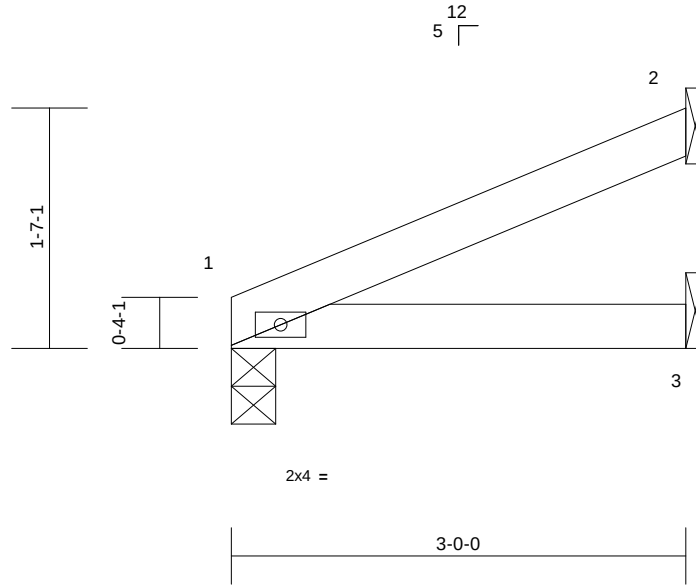
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	CJ02A	Jack-Open	1	1	T41982891
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



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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	0.10	Vert(LL)	0.00	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 41 lb uplift at joint 2 and 5 lb uplift at joint 3.

BRACING

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.

LOAD CASE(S) Standard

REACTIONS

(size) 1=0-3-8, 2= Mechanical, 3= Mechanical
Max Horiz 1=47 (LC 12)
Max Uplift 1=-25 (LC 12), 2=-41 (LC 12), 3=-5 (LC 12)
Max Grav 1=118 (LC 1), 2=75 (LC 1), 3=54 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-58/24
BOT CHORD 1-3=-42/48

NOTES

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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July 27,2026

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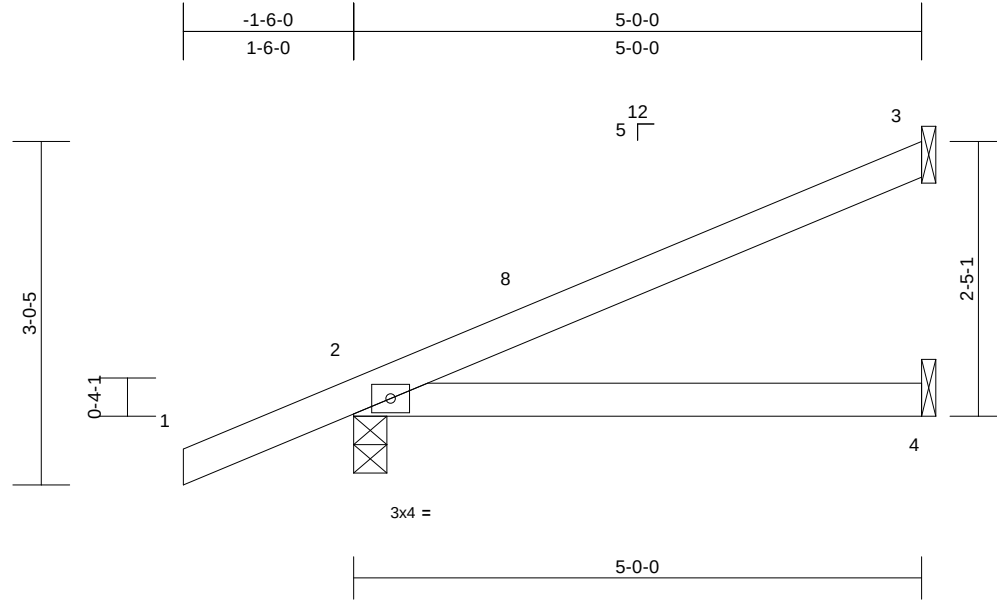
Job	Truss	Truss Type	Qty	Ply	
5591906	CJ03	Jack-Open	3	1	T41982892
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:20.3

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	0.30	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 3, 123 lb uplift at joint 2 and 33 lb uplift at joint 4.

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.

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=100 (LC 12)
Max Uplift 2=-123 (LC 8), 3=-70 (LC 12), 4=-33 (LC 9)
Max Grav 2=301 (LC 1), 3=123 (LC 1), 4=89 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-65/38
BOT CHORD 2-4=-51/46

NOTES

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.

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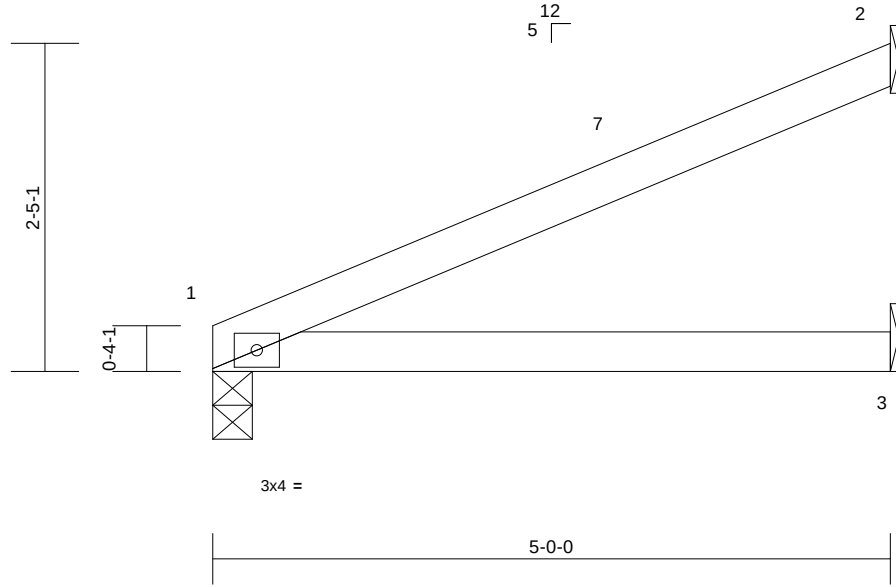
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	CJ03A	Jack-Open	1	1	T41982893
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:17

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	0.33	Vert(LL)	0.03	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.07	3-6	>906	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 73 lb uplift at joint 2 and 4 lb uplift at joint 3.

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.

LOAD CASE(S) Standard

REACTIONS

(size) 1=0-3-8, 2= Mechanical, 3= Mechanical
Max Horiz 1=79 (LC 12)
Max Uplift 1=-43 (LC 12), 2=-73 (LC 12), 3=-4 (LC 12)
Max Grav 1=198 (LC 1), 2=130 (LC 1), 3=91 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-96/40
BOT CHORD 1-3=-74/88

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

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

July 27,2026

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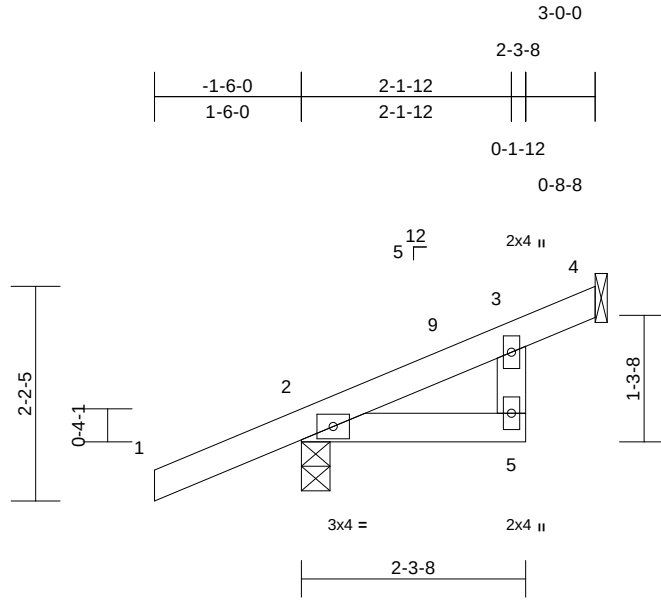
Job	Truss	Truss Type	Qty	Ply	
5591906	CJ04	Jack-Open	2	1	T41982894
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58

Page: 1

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Scale = 1:23.5

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	0.15	Vert(LL)	0.00	5	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	5-8	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 76 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 4= Mechanical
Max Horiz 2=68 (LC 12)
Max Uplift 2=-76 (LC 8), 4=-39 (LC 12)
Max Grav 2=228 (LC 1), 4=81 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-92/28, 3-4=-27/31
BOT CHORD 2-5=-31/72
WEBS 3-5=-4/42

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

July 27,2026

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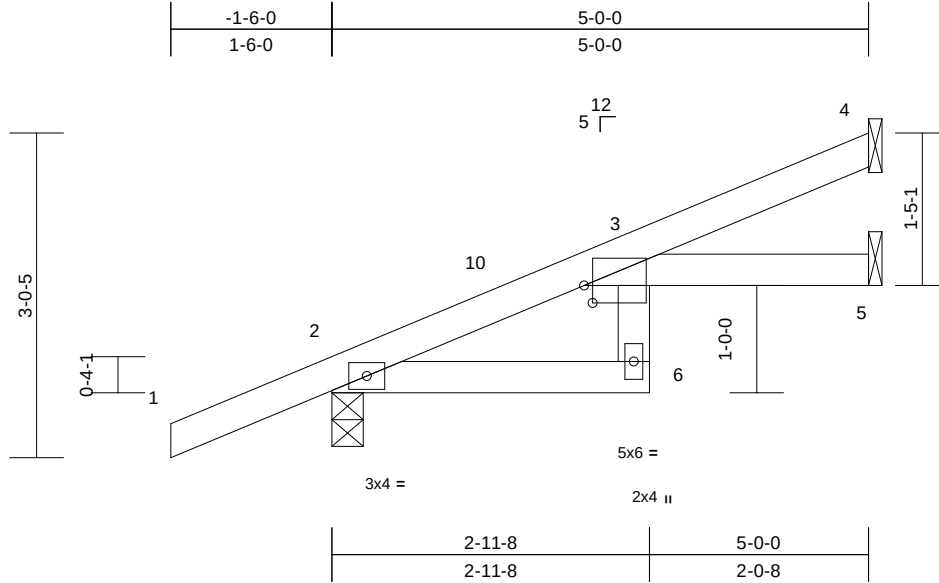
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5591906	CJ05	Jack-Open	2	1	T41982895
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58
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Page: 1



Scale = 1:21.5

Plate Offsets (X, Y): [3:0-0-15,0-1-15]

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	0.45	Vert(LL)	0.05	6	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.09	6	>696	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 20 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 6-3:2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=100 (LC 12)
Max Uplift 2=-86 (LC 12), 4=-52 (LC 12), 5=-17 (LC 12)
Max Grav 2=303 (LC 1), 4=108 (LC 1), 5=84 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-105/0, 3-4=-41/36
BOT CHORD 2-6=-31/74, 3-6=-37/95, 3-5=-4/3

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 4, 86 lb uplift at joint 2 and 17 lb uplift at joint 5.

LOAD CASE(S) Standard

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

July 27,2026

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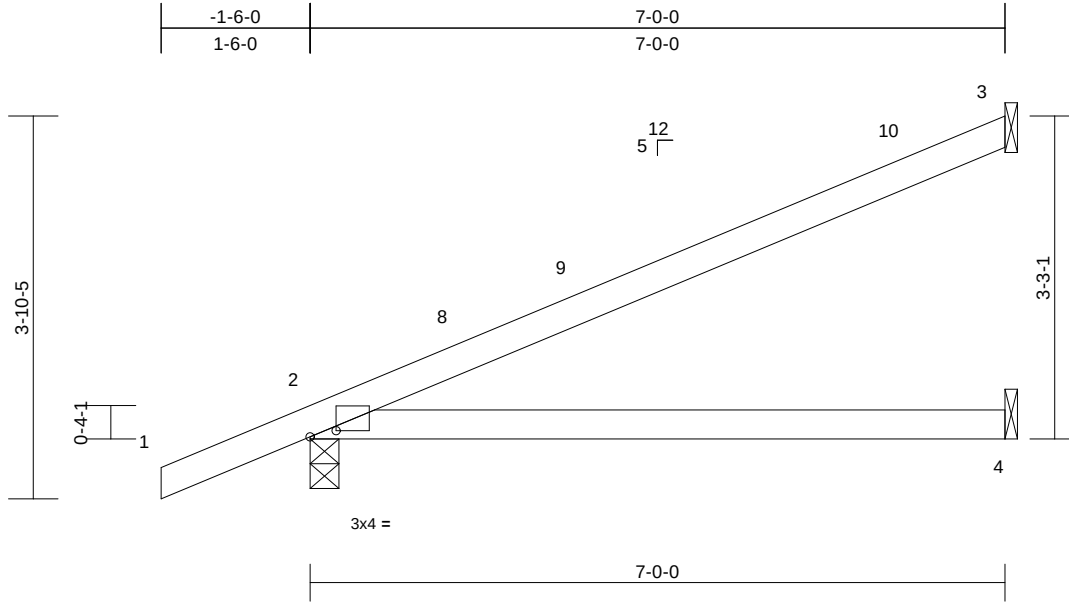
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	EJ01	Jack-Partial	14	1	T41982896
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58
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Page: 1



Scale = 1:23.2

Plate Offsets (X, Y): [2:0-3-2,0-0-12]

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	0.68	Vert(LL)	0.11	4-7	>777	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.23	4-7	>369	180		
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: 24 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 3, 103 lb uplift at joint 2 and 1 lb uplift at joint 4.

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.

LOAD CASE(S) Standard

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=128 (LC 12)
Max Uplift 2=-103 (LC 12), 3=-90 (LC 12), 4=-1 (LC 12)
Max Grav 2=377 (LC 1), 3=180 (LC 1), 4=127 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-109/55
BOT CHORD 2-4=-39/97

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

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

July 27,2026

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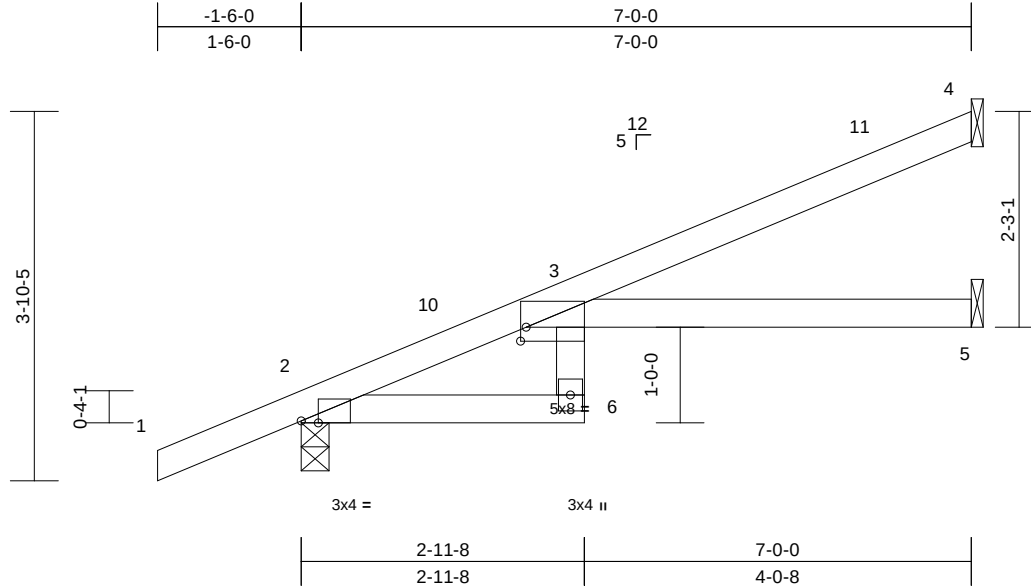
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	EJ02	Jack-Partial	3	1	T41982897
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58
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Page: 1



Scale = 1:24.1

Plate Offsets (X, Y): [2:0-2-2,Edge], [3:0-0-11,0-1-12]

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)	0.17	6	>486	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.31	6	>269	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.13	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 6-3:2x4 SP No.3

BRACING

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

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=128 (LC 12)
Max Uplift 2=-102 (LC 12), 4=-73 (LC 12), 5=-17 (LC 12)
Max Grav 2=379 (LC 1), 4=164 (LC 1), 5=122 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-174/0, 3-4=-59/53
BOT CHORD 2-6=-43/111, 3-6=-47/131, 3-5=-3/2

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 4, 102 lb uplift at joint 2 and 17 lb uplift at joint 5.

LOAD CASE(S) Standard

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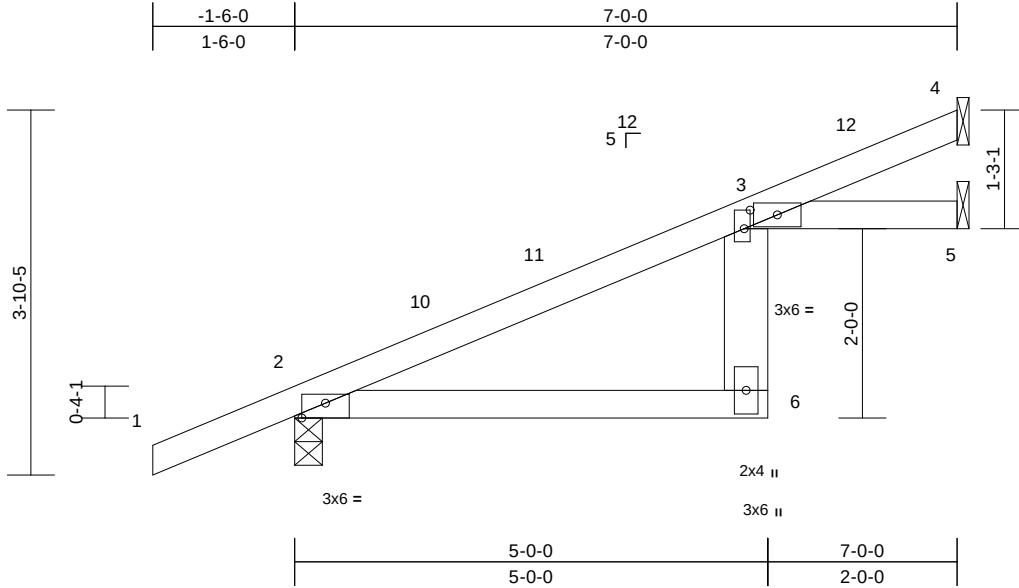
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	EJ03	Jack-Partial	2	1	
Job Reference (optional)					T41982898

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:24.3

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

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	0.93	Vert(LL)	0.18	6	>469	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.31	6	>271	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.13	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 6-3:2x6 SP No.2

BRACING

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

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5= Mechanical
Max Horiz 2=128 (LC 12)
Max Uplift 2=-103 (LC 12), 4=-57 (LC 12), 5=-33 (LC 12)
Max Grav 2=378 (LC 1), 4=147 (LC 1), 5=122 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-180/0, 3-4=-44/51
BOT CHORD 2-6=-48/114, 3-6=-36/150, 3-5=0/0

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 4, 103 lb uplift at joint 2 and 33 lb uplift at joint 5.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

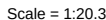
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Page: 1

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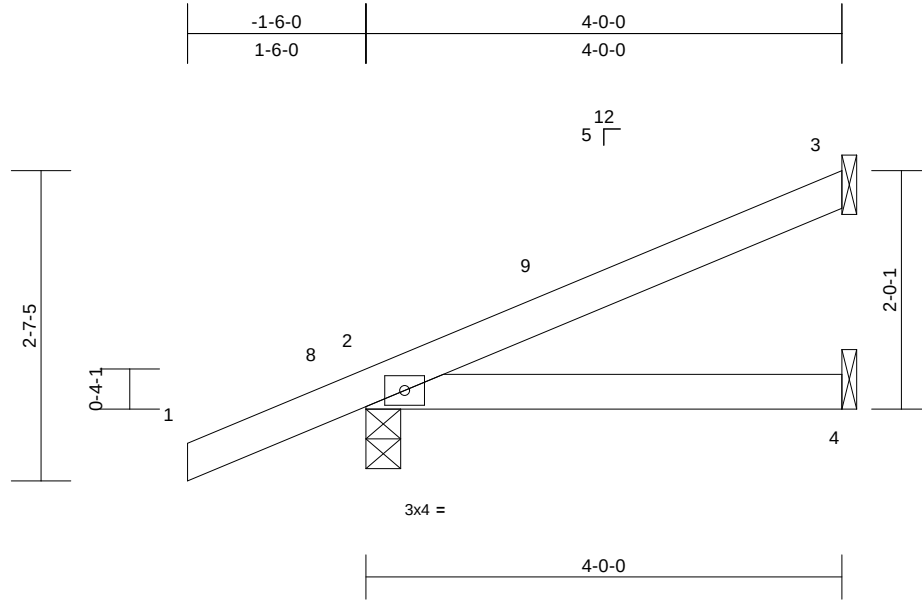
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	EJ05	Jack-Open	1	1	T41982900
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58
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Page: 1



Scale = 1:19.4

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	0.17	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 112 lb uplift at joint 2 and 26 lb uplift at joint 4.

BRACING

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

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=84 (LC 12)
Max Uplift 2=-112 (LC 8), 3=-53 (LC 12), 4=-26 (LC 9)
Max Grav 2=265 (LC 1), 3=95 (LC 1), 4=69 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-70/29
BOT CHORD 2-4=-32/43

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 3-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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

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

July 27,2026

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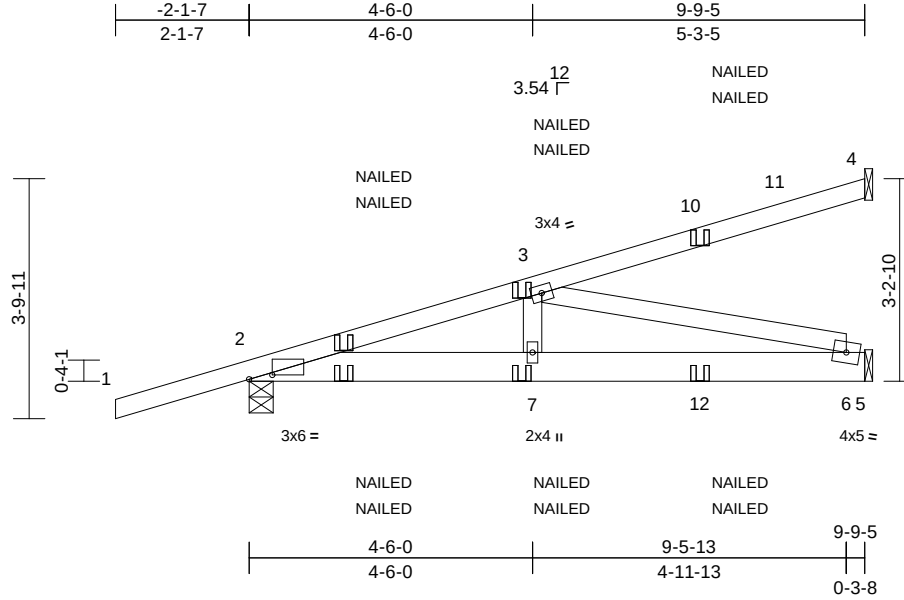
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5591906	HJ01	Diagonal Hip Girder	2	1	T41982901
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:58
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Page: 1



Scale = 1:36.6

Plate Offsets (X, Y): [2:0-4-7,0-0-13]

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	0.62	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-9, 4= Mechanical, 5= Mechanical
Max Horiz 2=138 (LC 4)
Max Uplift 2=-219 (LC 4), 4=-83 (LC 4), 5=-148 (LC 8)
Max Grav 2=518 (LC 1), 4=162 (LC 1), 5=311 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-964/429, 3-4=-66/37
BOT CHORD 2-7=-468/903, 6-7=-467/903, 5-6=0/0
WEBS 3-7=-56/242, 3-6=-933/483

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; 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.
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 4, 219 lb uplift at joint 2 and 148 lb uplift at joint 5.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") 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: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 7=-8 (F=-4, B=-4), 9=63 (F=31, B=31), 10=-77 (F=-39, B=-39), 12=-64 (F=-32, B=-32)

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

July 27,2026

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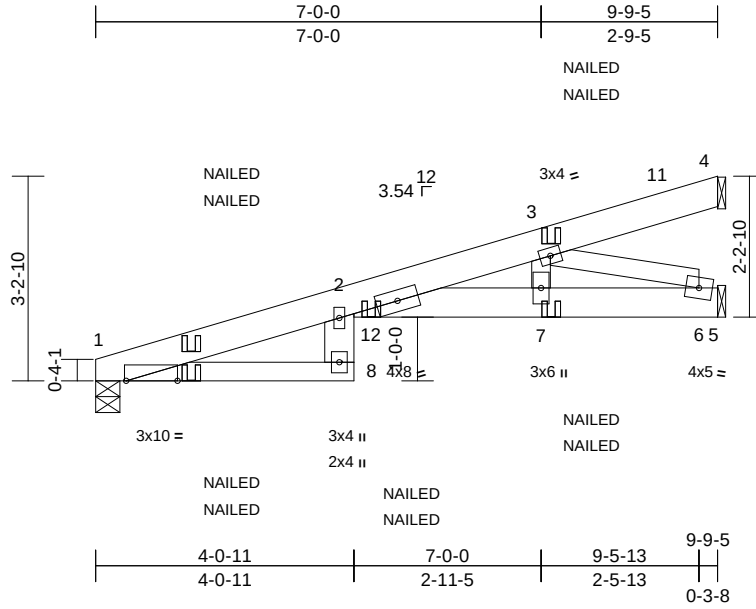
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5591906	HJ02	Diagonal Hip Girder	1	1	T41982902
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Page: 1



Scale = 1:36.2

Plate Offsets (X, Y): [1:0-9-11,Edge], [2:0-4-9,0-2-0]

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	0.49	Vert(LL)	-0.12	8	>933	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.21	8	>539	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.07	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 49 lb FT = 20%											

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.1 *Except* 8-2:2x6 SP No.2,
2-5:2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=0-4-9, 4= Mechanical, 5= Mechanical
Max Horiz 1=106 (LC 4)
Max Uplift 1=-121 (LC 4), 4=-28 (LC 4),
5=-177 (LC 4)
Max Grav 1=429 (LC 1), 4=71 (LC 21), 5=452
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-608/135, 2-3=-1279/493, 3-4=-27/16
BOT CHORD 1-8=-217/539, 2-8=-44/147, 2-7=-539/1254,
6-7=-539/1253, 5-6=0/0
WEBS 3-7=-148/413, 3-6=-1339/576

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 1, 28 lb uplift at joint 4 and 177 lb uplift at joint 5.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) 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: 1-2=-60, 2-4=-60, 1-8=-20, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-46 (F=-23, B=-23), 7=-99 (F=-50, B=-50),
10=61 (F=30, B=30), 12=-105 (F=-53, B=-53)

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

July 27,2026

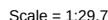
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LUMBER		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 3, 156 lb uplift at joint 2 and 41 lb uplift at joint 4.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
BRACING		8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		LOAD CASE(S) Standard
(size)	2=0-4-9, 3= Mechanical, 4= Mechanical	1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Max Horiz	2=110 (LC 25)	Uniform Loads (lb/ft)
Max Uplift	2=-156 (LC 4), 3=-87 (LC 8), 4=-41 (LC 5)	Vert: 1-3=-60, 4-5=-20
Max Grav	2=376 (LC 1), 3=167 (LC 1), 4=118 (LC 3)	Concentrated Loads (lb)
		Vert: 10=63 (F=31, B=31), 11=-8 (F=-4, B=-4)
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/36, 2-3=-209/137	
BOT CHORD	2-4=-128/166	

- ## NOTES
- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; porch left and right exposed; 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.
 - 6) Refer to girder(s) for truss to truss connections.

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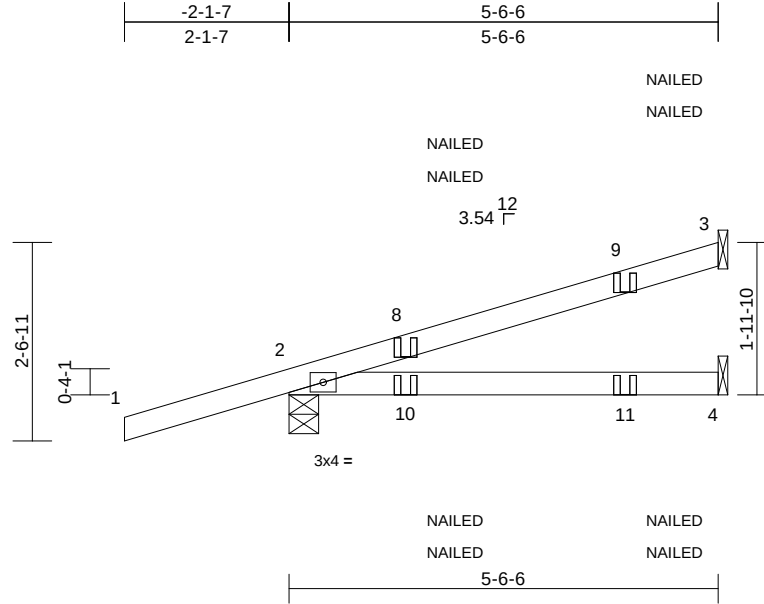
Job	Truss	Truss Type	Qty	Ply	
5591906	HJ04	Diagonal Hip Girder	1	1	T41982904
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:29.7									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.04	4-7	>999
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	4-7	>999
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP					
							PLATES		
							GRIP		
							MT20		
							244/190		
							Weight: 20 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 5-6-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-4-9, 3= Mechanical, 4= Mechanical
Max Horiz 2=94 (LC 4)
Max Uplift 2=-138 (LC 4), 3=-62 (LC 8), 4=-33 (LC 9)
Max Grav 2=327 (LC 1), 3=125 (LC 1), 4=88 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/36, 2-3=-202/160
BOT CHORD 2-4=-154/170

NOTES

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; porch 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.
- 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.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 3, 138 lb uplift at joint 2 and 33 lb uplift at joint 4.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- 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: 10=63 (F=31, B=31), 11=-9 (F=-5, B=-5)

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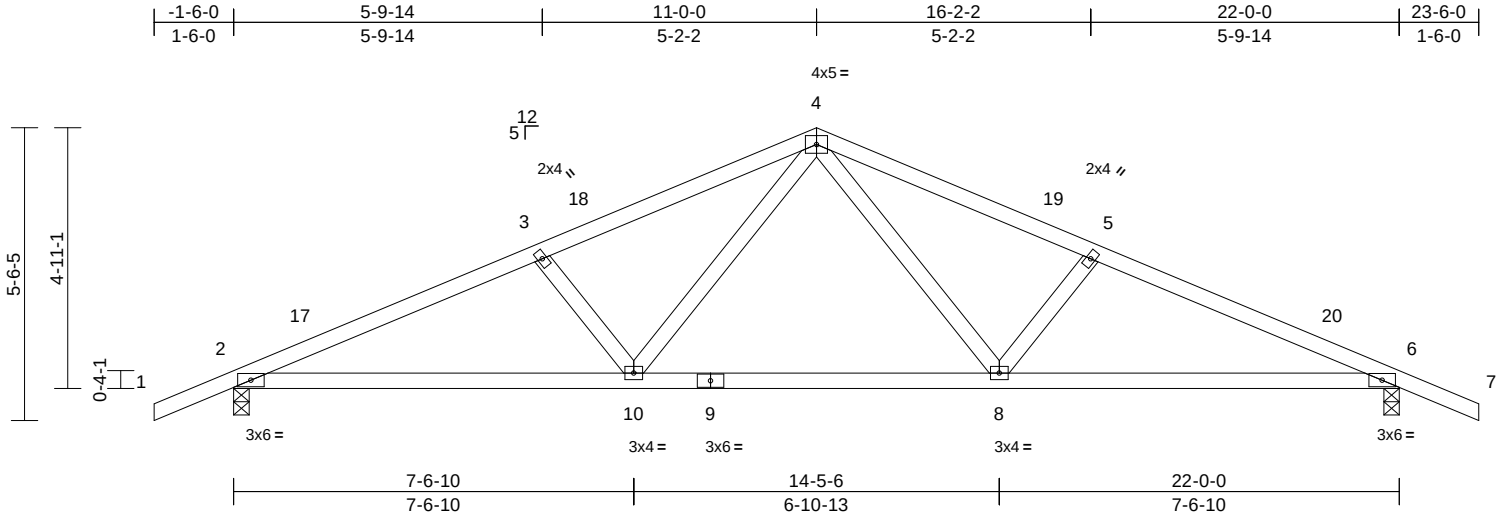
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5591906	T03	Common	7	1	T41982905
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:59
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Page: 1



Scale = 1:43.5

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	0.40	Vert(LL)	-0.18	8-10	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.37	8-10	>710	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.05	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 98 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-5-13 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-87 (LC 17)
Max Uplift 2=-313 (LC 12), 6=-313 (LC 13)
Max Grav 2=1177 (LC 1), 6=1177 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2313/581, 3-4=-2117/550, 4-5=-2117/550, 5-6=-2313/582, 6-7=0/35
BOT CHORD 2-10=-546/2086, 8-10=-284/1414, 6-8=-460/2086
WEBS 3-10=-330/198, 4-10=-239/814, 4-8=-239/814, 5-8=-330/198

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 23-6-0 zone;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 313 lb uplift at joint 2 and 313 lb uplift at joint 6.
- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80, 8-14=-20

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

July 27,2026

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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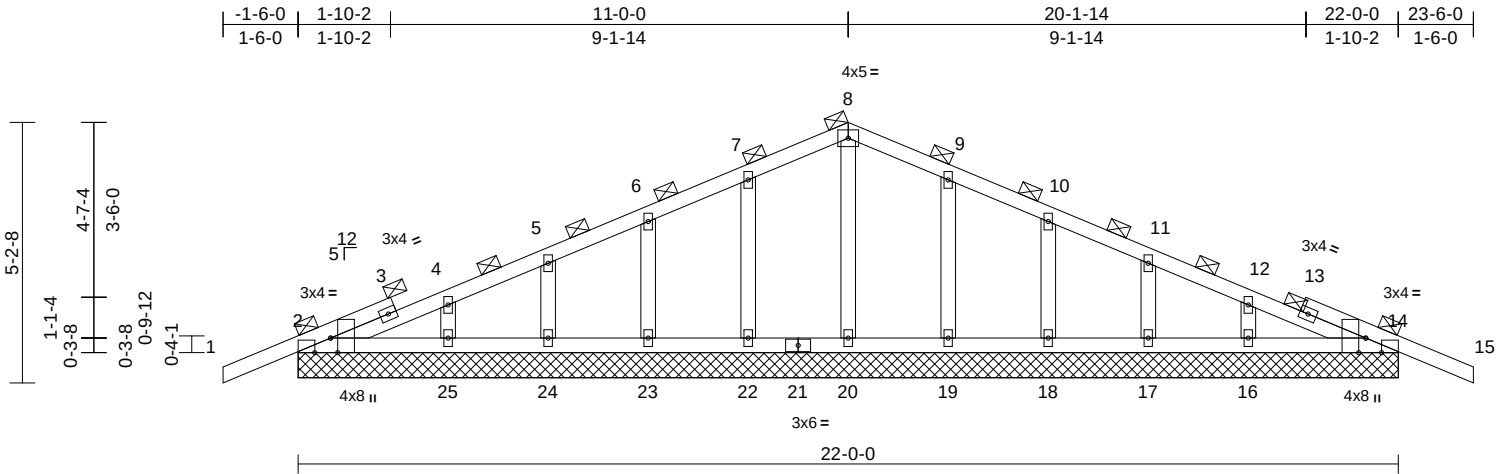
Job	Truss	Truss Type	Qty	Ply	
5591906	T03G	Common Supported Gable	1	1	T41982906
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 09:59:59

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Scale = 1:46.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-3-13,Edge], [14:0-3-8,Edge], [14:0-3-13,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	0.15	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	29	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 107 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

BRACING

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

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

REACTIONS	(size)	
	2=22-0-0, 14=22-0-0, 16=22-0-0, 17=22-0-0, 18=22-0-0, 19=22-0-0, 20=22-0-0, 22=22-0-0, 23=22-0-0, 24=22-0-0, 25=22-0-0	
Max Horiz	2=-82 (LC 13)	
Max Uplift	2=-75 (LC 8), 14=-78 (LC 9), 16=-66 (LC 13), 17=-61 (LC 13), 18=-62 (LC 13), 19=-65 (LC 13), 22=-65 (LC 12), 23=-62 (LC 12), 24=-61 (LC 12), 25=-62 (LC 12)	
Max Grav	2=220 (LC 1), 14=220 (LC 1), 16=201 (LC 1), 17=149 (LC 26), 18=161 (LC 1), 19=168 (LC 26), 20=145 (LC 22), 22=168 (LC 25), 23=161 (LC 1), 24=149 (LC 25), 25=201 (LC 1)	

FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/35, 2-4=-68/53, 4-5=-53/58, 5-6=-32/76, 6-7=-39/98, 7-8=-55/136, 8-9=-55/136, 9-10=-39/98, 10-11=-28/60, 11-12=-30/25, 12-14=-34/27, 14-15=0/35	
BOT CHORD	2-25=-26/76, 24-25=-26/76, 23-24=-26/76, 22-23=-26/76, 20-22=-26/76, 19-20=-26/76, 18-19=-26/76, 17-18=-26/76, 16-17=-26/76, 14-16=-26/76	
WEBS	8-20=-105/0, 7-22=-129/83, 6-23=-120/82, 5-24=-116/84, 4-25=-139/80, 9-19=-129/83, 10-18=-120/82, 11-17=-116/84, 12-16=-139/80	

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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.
- 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.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2, 78 lb uplift at joint 14, 65 lb uplift at joint 22, 62 lb uplift at joint 23, 61 lb uplift at joint 24, 62 lb uplift at joint 25, 65 lb uplift at joint 19, 62 lb uplift at joint 18, 61 lb uplift at joint 17, 66 lb uplift at joint 16, 75 lb uplift at joint 2 and 78 lb uplift at joint 14.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

July 27,2026

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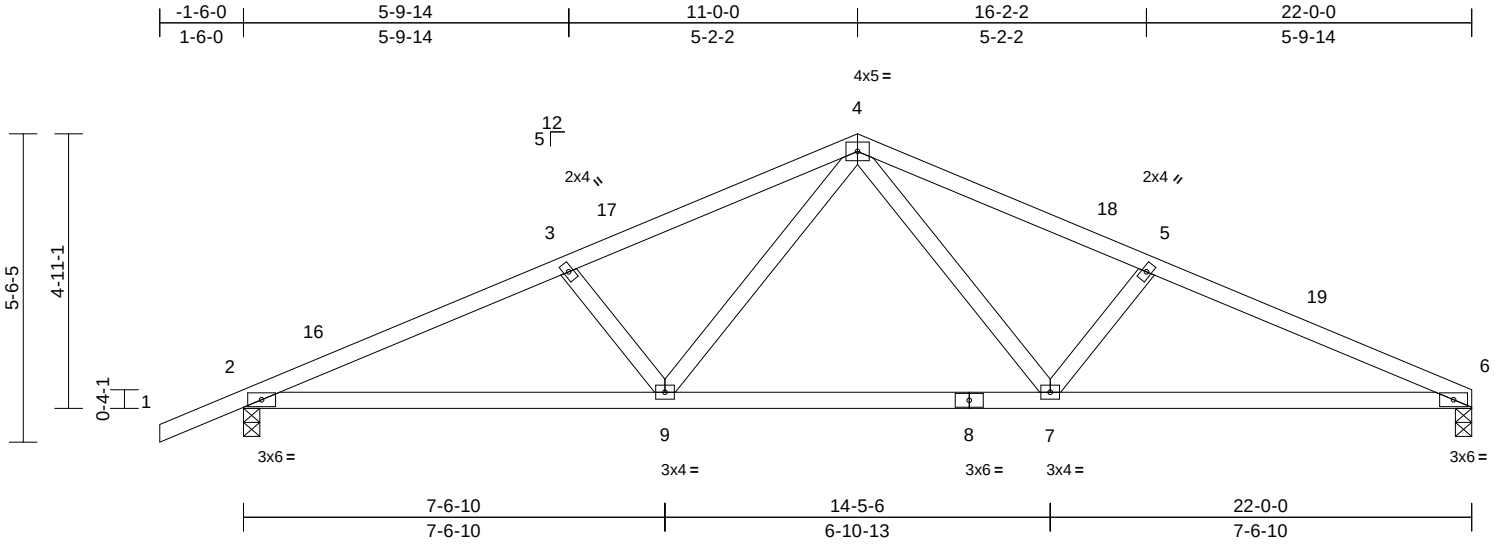
Job	Truss	Truss Type	Qty	Ply	
5591906	T04	Common	4	1	T41982907
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:41.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.18	7-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.37	7-9	>715	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.32	Horz(CT)	0.05	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-12 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=97 (LC 12)
Max Uplift 2=-314 (LC 12), 6=-275 (LC 13)
Max Grav 2=1180 (LC 1), 6=1084 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2321/583, 3-4=-2124/551,
4-5=-2137/560, 5-6=-2336/593
BOT CHORD 2-9=-558/2093, 7-9=-296/1421,
6-7=-492/2110
WEBS 4-9=-238/813, 3-9=-330/198, 4-7=-248/832,
5-7=-339/202

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 22-0-0 zone;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 275 lb uplift at joint 6 and 314 lb uplift at joint 2.
- LOAD CASE(S)** Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 9-13=-20, 7-9=-80, 7-10=-20

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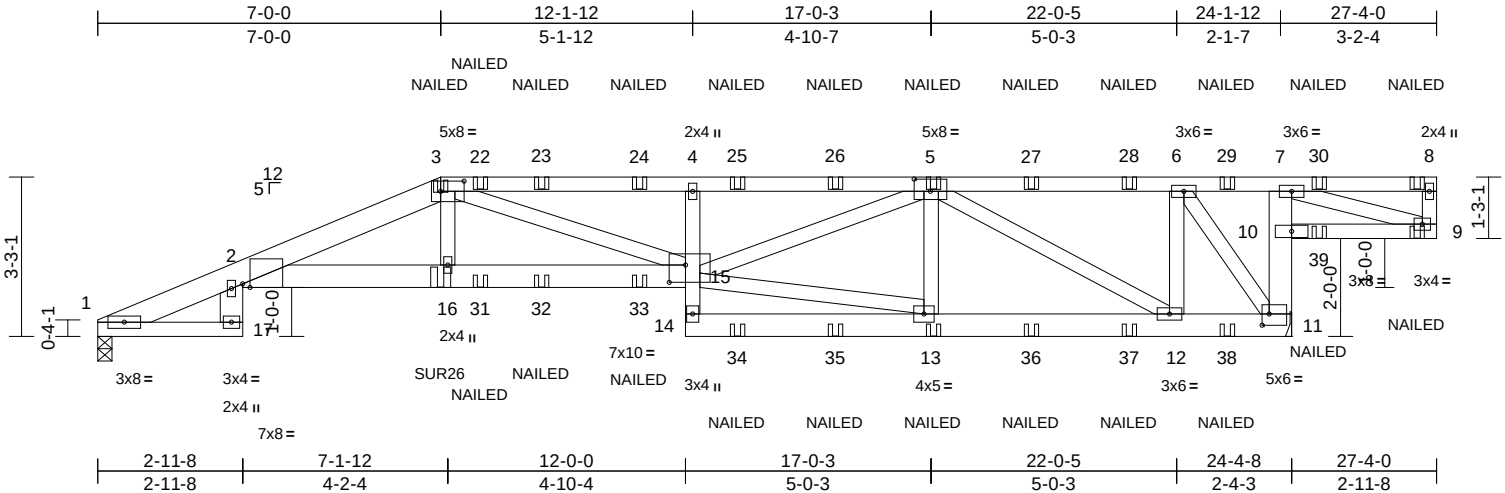
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Job	Truss	Truss Type	Qty	Ply	
5591906	T05	Half Hip Girder	1	2	T41982908
Job Reference (optional)					

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Scale = 1:47

Plate Offsets (X, Y): [2:0-1-13,Edge], [3:0-5-12,0-2-8], [5:0-4-0,0-3-0], [11:0-1-12,0-2-12], [15:0-4-0,0-4-4]

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	0.92	Vert(LL)	0.27	2-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.51	15-16	>564	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.58	Horz(CT)	0.26	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 334 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 1-3:2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD	2x4 SP No.2 *Except* 17-2,14-11,11-7:2x6 SP No.2, 2-15:2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-10.

REACTIONS	(size) 1=0-3-8, 11= Mechanical
	Max Horiz 1=114 (LC 8)
	Max Uplift 1=-614 (LC 8), 11=-973 (LC 5)
	Max Grav 1=1851 (LC 1), 11=2841 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-1109/301, 2-3=-6506/2242, 3-4=-6614/2267, 4-6=-6471/2222, 6-7=-135/365, 7-8=-8/17, 8-9=-174/73
BOT CHORD	1-17=-96/249, 2-17=-189/554, 2-16=-2151/6104, 15-16=-2190/6225, 14-15=-15218, 4-15=-564/280, 13-14=-287/859, 12-13=-1206/3611, 11-12=-389/1162, 10-11=-787/295, 7-10=-648/248, 9-10=-976/352
WEBS	3-16=-506/1560, 3-15=-157/561, 5-13=-351/233, 5-15=-1107/3065, 6-12=-480/1683, 6-11=-2575/862, 5-12=-2822/941, 13-15=-940/2811, 7-9=-369/1017

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; cantilever 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 614 lb uplift at joint 1 and 973 lb uplift at joint 11.
- Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S)

- Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 2-20=-60, 2-3=-60, 3-8=-60, 1-17=-20, 2-15=-20, 11-14=-20, 9-10=-20
Concentrated Loads (lb)
Vert: 8=-109 (B), 9=-109 (B), 16=-424 (B), 13=-68 (B), 5=-120 (B), 22=-104 (B), 23=-104 (B), 24=-104 (B), 25=-120 (B), 26=-120 (B), 27=-120 (B), 28=-120 (B), 29=-120 (B), 30=-87 (B), 31=-85 (B), 32=-85 (B), 33=-85 (B), 34=-68 (B), 35=-68 (B), 36=-68 (B), 37=-68 (B), 38=-68 (B), 39=-102 (B)

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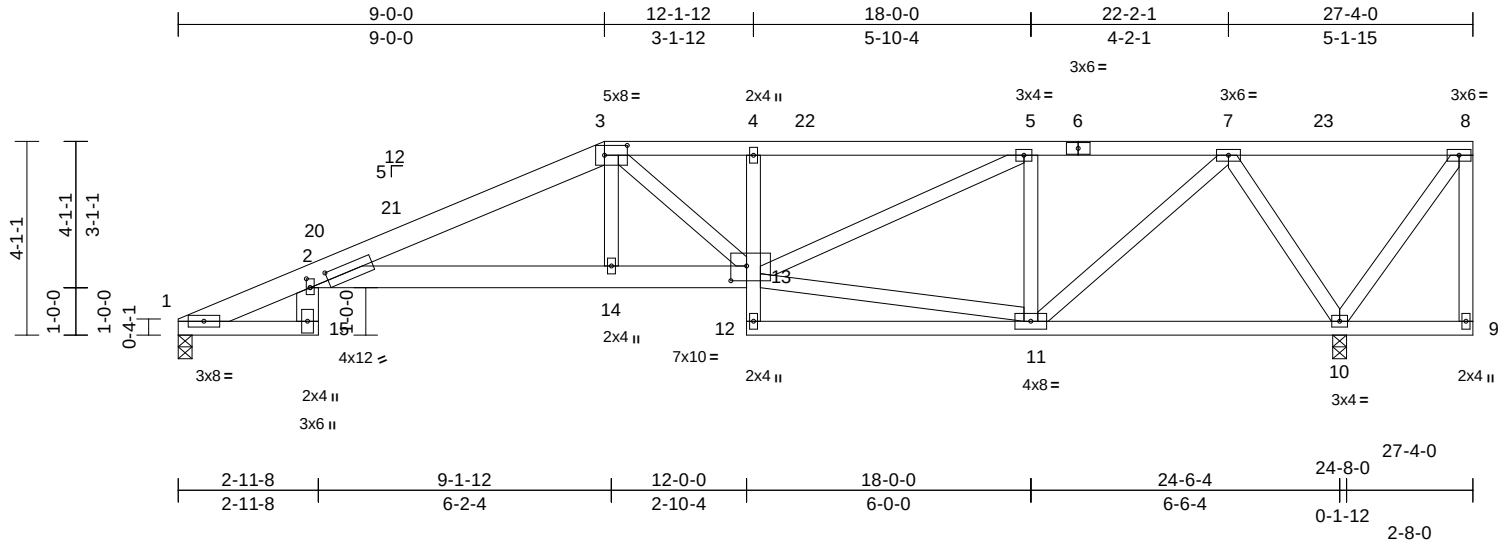
Job	Truss	Truss Type	Qty	Ply	T41982909
5591906	T06	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:00

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Scale = 1:48.6									
Plate Offsets (X, Y): [2:0-4-14,0-2-0], [2:0-2-4,0-0-15], [3:0-5-12,0-2-8], [13:0-4-0,0-3-12]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.30	2-14	>981
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.58	2-14	>506
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.26	10	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
						PLATES		GRIP	
						MT20		244/190	
						Weight: 163 lb FT = 20%			

LUMBER		3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2 *Except* 1-3:2x6 SP 2400F 2.0E or 2x6 SP M 26	Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 27-2-4 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
BOT CHORD	2x4 SP No.2 *Except* 15-2:2x6 SP No.2, 2-13:2x6 SP 2400F 2.0E or 2x6 SP M 26, 4-12:2x4 SP No.3	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.
WEBS	2x4 SP No.3	5) Provide adequate drainage to prevent water ponding.
BRACING		6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD	Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.	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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 267 lb uplift at joint 1 and 402 lb uplift at joint 10.
REACTIONS (size) 1=0-3-8, 10=0-3-8		LOAD CASE(S) Standard
	Max Horiz 1=146 (LC 12)	
	Max Uplift 1=-267 (LC 12), 10=-402 (LC 9)	
	Max Grav 1=966 (LC 1), 10=1200 (LC 1)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=-565/60, 2-3=-2384/688, 3-4=-2088/638, 4-5=-2108/650, 5-7=-1207/344, 7-8=-56/86, 8-9=-32/12	
BOT CHORD	1-15=-74/134, 2-15=-95/305, 2-14=-691/2187, 13-14=-699/2220, 12-13=0/106, 4-13=-274/141, 11-12=-54/232, 10-11=-158/500, 9-10=-7/12	
WEBS	3-14=-140/603, 3-13=-174/80, 11-13=-306/1012, 8-10=-171/109, 5-11=-714/274, 5-13=-354/969, 7-11=-264/967, 7-10=-1115/375	

- 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.

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

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

July 27,2026

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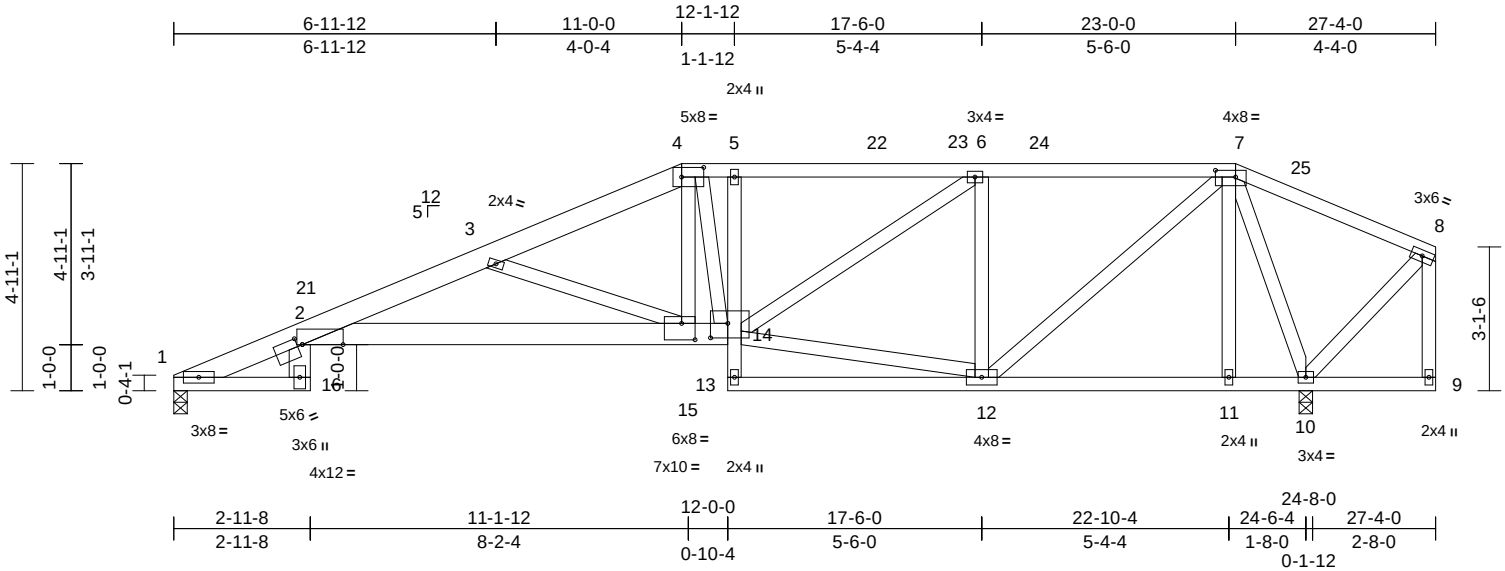
Job	Truss	Truss Type	Qty	Ply	T41982910
5591906	T07	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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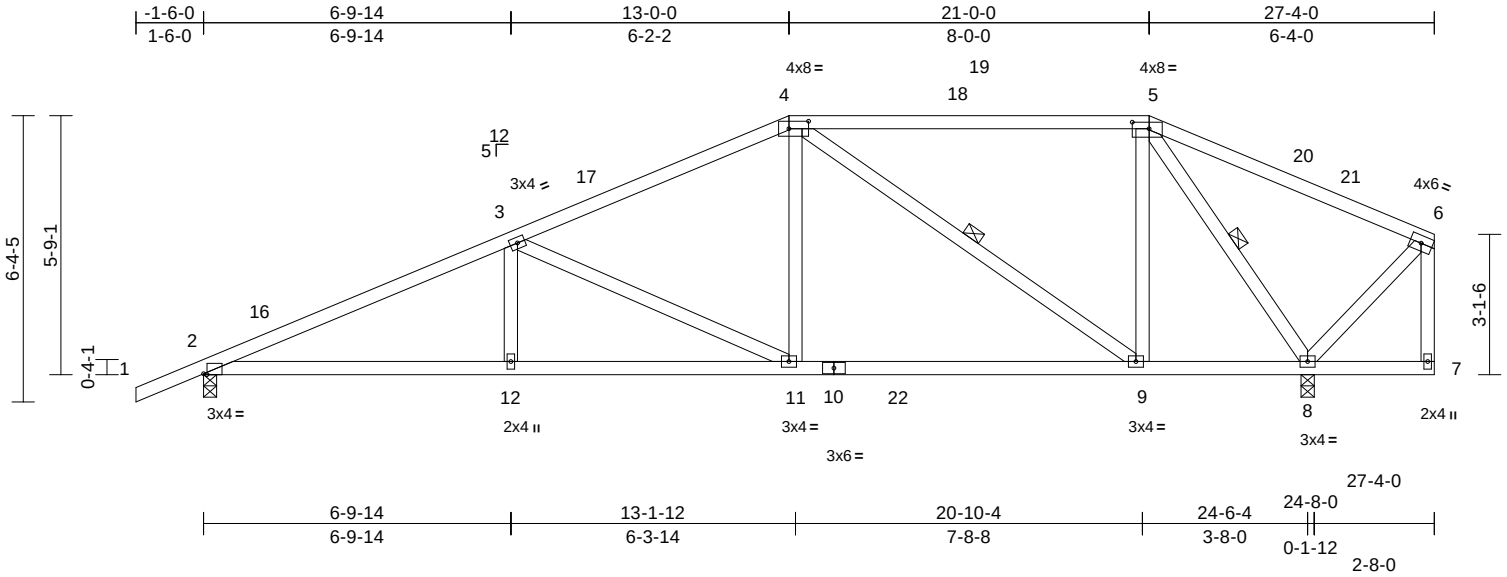
Job	Truss	Truss Type	Qty	Ply	
5591906	T08	Hip	1	1	T41982911
Job Reference (optional)					

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Page: 1

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Scale = 1:51.2

Plate Offsets (X, Y): [2:0-0-14,Edge], [4:0-5-4,0-2-0], [5:0-4-8,0-1-12]

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	0.94	Vert(LL)	-0.12	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.24	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 148 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-10 oc bracing.
WEBS 1 Row at midpt 4-9, 5-8

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=173 (LC 12)
Max Uplift 2=-297 (LC 12), 8=-309 (LC 9)
Max Grav 2=1121 (LC 2), 8=1299 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2074/504, 3-4=-1373/339, 4-5=-609/187, 5-6=-33/193, 6-7=-26/51
BOT CHORD 2-12=-553/1881, 11-12=-553/1881, 9-11=-294/1224, 8-9=-119/592, 7-8=-21/32
WEBS 3-12=0/264, 3-11=-739/287, 4-11=-73/590, 4-9=-762/227, 5-9=-89/671, 5-8=-1282/274, 6-8=-202/111

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 27-2-4 zone; cantilever 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.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 309 lb uplift at joint 8 and 297 lb uplift at joint 2.

LOAD CASE(S) Standard

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Date:

July 27,2026

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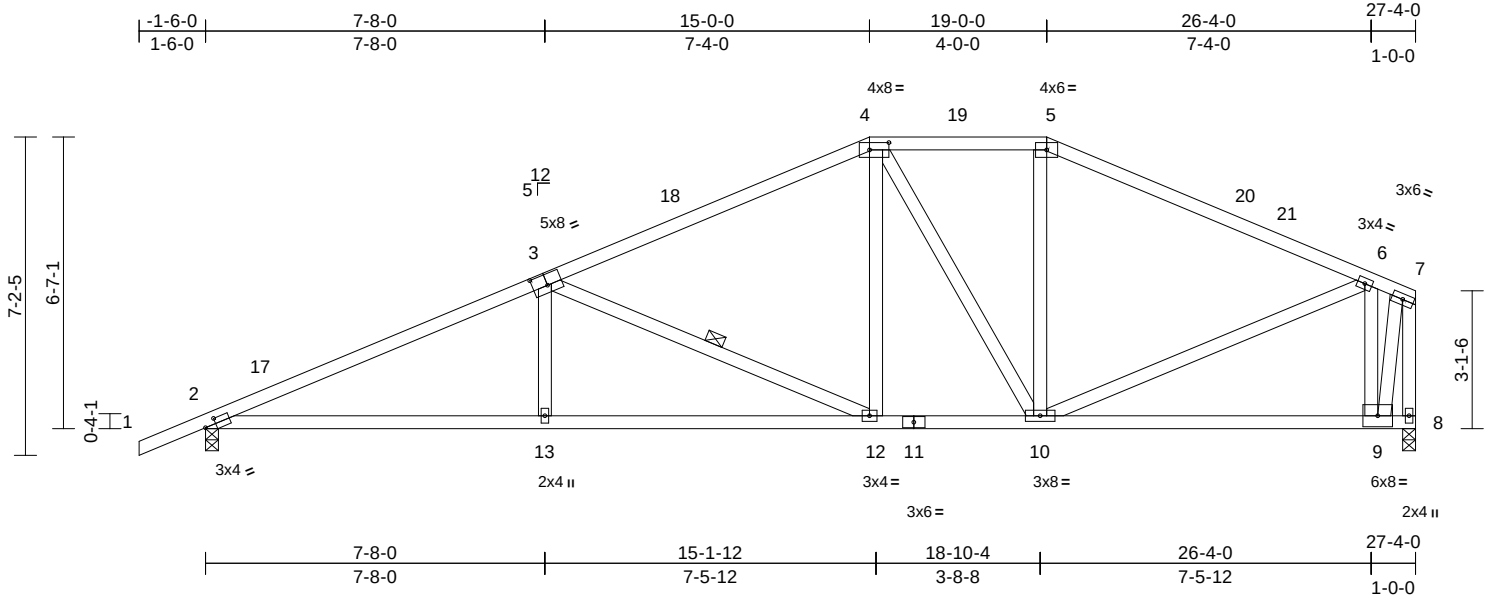
Job	Truss	Truss Type	Qty	Ply	T41982912
5591906	T09	Hip	1	1	Job Reference (optional)

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Scale = 1:52

Plate Offsets (X, Y): [2:0-3-0,0-1-8], [3:0-4-0,0-3-0], [4:0-5-4,0-2-0]

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	0.67	Vert(LL)	0.11	13-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.24	13-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 155 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-5-1 oc bracing.

WEBS 1 Row at midpt 3-12

REACTIONS

(size) 2=0-3-8, 8=0-3-8

Max Horiz 2=187 (LC 12)

Max Uplift 2=-320 (LC 12), 8=-234 (LC 13)

Max Grav 2=1180 (LC 1), 8=1085 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-4=-2210/550, 4-5=-1021/286, 5-6=-1199/288, 6-7=-252/29, 7-8=-1136/171

BOT CHORD 2-13=-603/1979, 12-13=-603/1979, 10-12=-289/1181, 9-10=-106/389, 8-9=-4/19

WEBS 3-13=0/334, 3-12=-880/345, 4-12=-101/465, 4-10=-385/149, 5-10=-36/214, 6-10=-152/685, 6-9=-1148/431, 7-9=-348/1328

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone3 15-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 27-2-4 zone;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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 8 and 320 lb uplift at joint 2.

LOAD CASE(S) Standard

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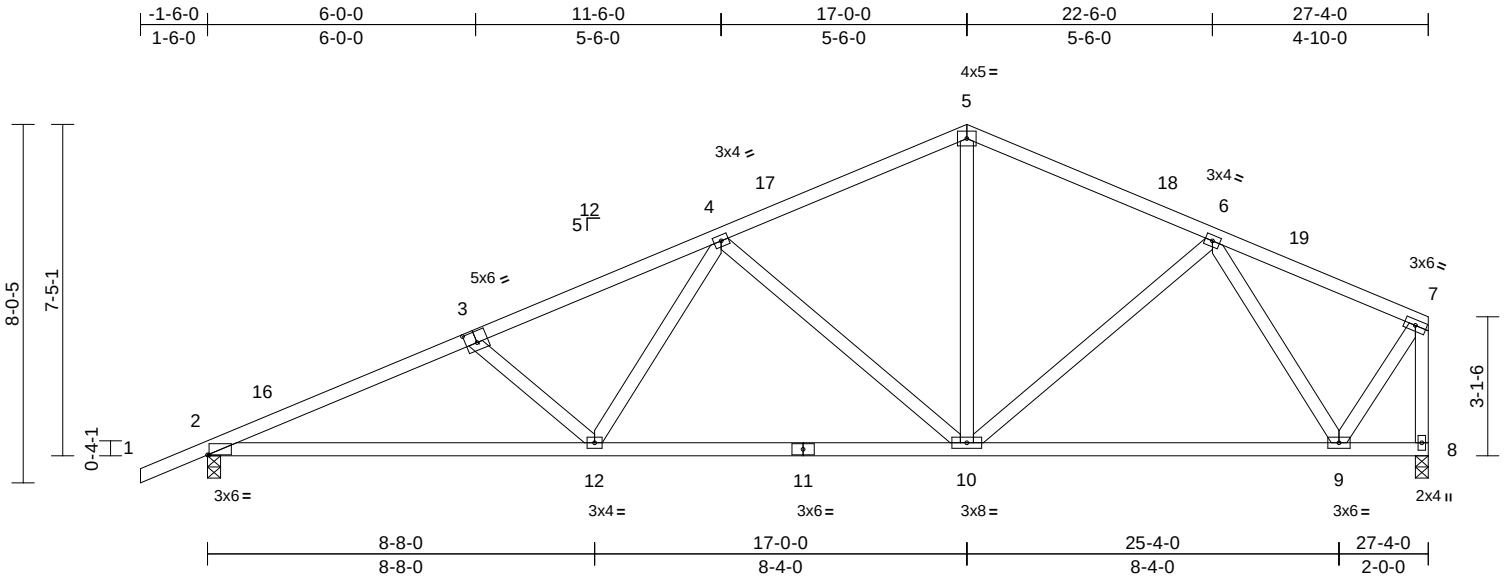
Job	Truss	Truss Type	Qty	Ply	T41982913
5591906	T10	Common	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:51.6

Plate Offsets (X, Y): [2:0-0-6,Edge], [3:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.12	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.28	12-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 148 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=201 (LC 12)
Max Uplift 2=-317 (LC 12), 8=-230 (LC 13)
Max Grav 2=1180 (LC 1), 8=1085 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-4=-2234/570, 4-5=-1150/301, 5-6=-1150/317, 6-7=-605/131, 7-8=-1109/217
BOT CHORD 2-12=-648/2028, 10-12=-441/1513, 9-10=-189/893, 8-9=-11/15
WEBS 7-9=-149/927, 3-12=-362/206, 4-12=-111/528, 4-10=-692/299, 5-10=-122/534, 6-10=-36/231, 6-9=-741/202

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 27-2-4 zone;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 230 lb uplift at joint 8 and 317 lb uplift at joint 2.

LOAD CASE(S) Standard

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Date:

July 27,2026

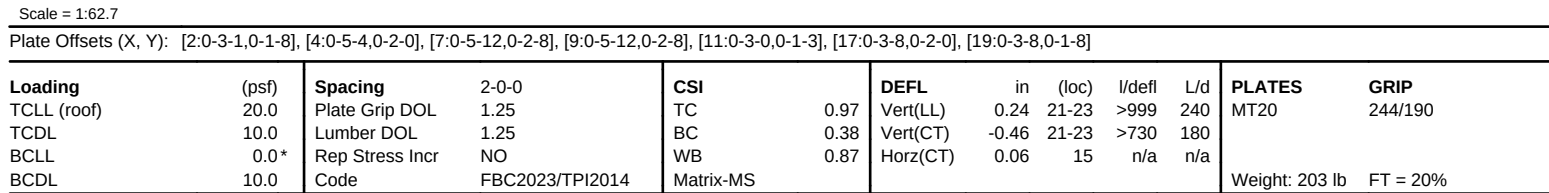
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- | | | | |
|------------------|---|---|---|
| LUMBER | | 2x6 SP 2400F 2.0E or 2x6 SP M 26 bearing block 12" long at jt. 15 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2. | 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B). |
| TOP CHORD | 2x4 SP No.2 *Except* 4-7:2x4 SP No.1 | | LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 7-8=-60, 8-10=-60, 10-12=-60, 2-11=-20
Concentrated Loads (lb)
Vert: 4=-78 (F), 7=-78 (F), 10=-40 (F), 24=-283 (F), 19=-283 (F), 13=-31 (F), 30=-120 (F), 31=-120 (F), 32=-120 (F), 33=-120 (F), 34=-120 (F), 35=-120 (F), 36=-120 (F), 37=-120 (F), 38=-35 (F), 39=-68 (F), 40=-68 (F), 41=-68 (F), 42=-68 (F), 43=-68 (F), 44=-68 (F), 45=-68 (F), 46=-68 (F), 47=-26 (F) |
| BOT CHORD | 2x6 SP 2400F 2.0E or 2x6 SP M 26 | | |
| WEBS | 2x4 SP No.3 *Except* 9-17:2x4 SP No.1 | | |
| BRACING | | | |
| TOP CHORD | Structural wood sheathing directly applied. | | |
| BOT CHORD | Rigid ceiling directly applied or 4-8-0 oc bracing. | | |
| REACTIONS | (size) | 2=0-3-8, 11=0-3-8, 15=(0-3-8 + bearing block), (req. 0-4-12) | |
| | Max Horiz | 2=-59 (LC 9) | |
| | Max Uplift | 2=-697 (LC 8), 11=-911 (LC 21), 15=-1450 (LC 5) | |
| | Max Grav | 2=2051 (LC 1), 11=304 (LC 8), 15=4003 (LC 1) | |
| FORCES | (lb) - Maximum Compression/Maximum Tension | | |
| TOP CHORD | 1-2=0/35, 2-3=-4617/1567, 3-4=-4464/1595, 4-5=-4844/1727, 5-6=-4882/1738, 6-7=-4197/1511, 7-8=-3107/1143, 8-9=-693/273, 9-10=-878/2675, 10-11=-958/2816, 11-12=0/35 | | |
| BOT CHORD | 2-25=-1442/4237, 24-25=-1442/4237, 23-24=-1407/4133, 21-23=-1712/5014, 20-21=-1561/4584, 19-20=-957/2832, 17-19=-262/900, 15-17=-3950/1430, 13-15=-3950/1430, 11-13=-2571/915 | | |
| WEBS | 4-24=-216/654, 7-19=-450/179, 8-19=-824/2274, 8-17=-2351/865, 9-13=-635/1644, 10-13=-1223/431, 3-24=-152/202, 3-25=-35/60, 7-20=-581/1781, 4-23=-295/965, 5-23=-496/225, 5-21=-227/129, 6-21=-126/494, 6-20=-1064/426, 9-15=-3374/1246, 9-17=-1758/5047 | | |
| NOTES | | 3) 2x6 SP 2400F 2.0E or 2x6 SP M 26 bearing block 12" long at jt. 15 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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.
6) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 911 lb uplift at joint 11, 697 lb uplift at joint 2 and 1450 lb uplift at joint 15.
10) Use Simpson Strong-Tie SUL26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
11) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 21-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines. | |

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

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

July 27, 2026



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 Components Association (www.sbcscomponents.com)

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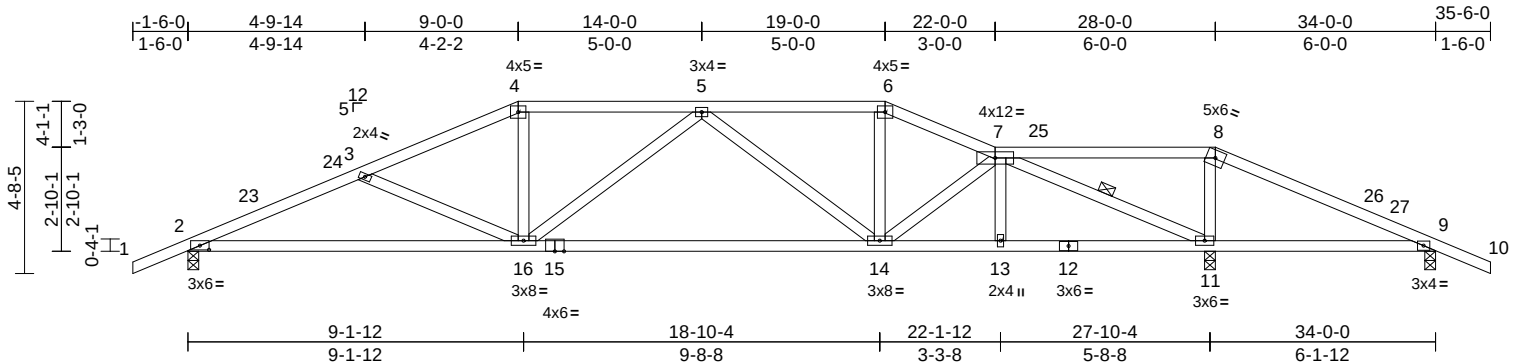
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	T12	Roof Special	1	1	T41982915
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:01
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Page: 1



Scale = 1:62.8

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

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	0.64	Vert(LL)	-0.20	14-16	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.45	14-16	>751	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.07	11	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 164 lb FT = 20%											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 3-9-13 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 7-11
REACTIONS	
(size)	2=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz	2=73 (LC 16)
Max Uplift	2=-261 (LC 8), 9=-287 (LC 25), 11=-533 (LC 9)
Max Grav	2=1091 (LC 1), 9=33 (LC 12), 11=1985 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/35, 2-3=-2078/482, 3-4=-1734/419, 4-5=-1564/406, 5-6=-1249/365, 6-7=-1378/382, 7-8=-223/1158, 8-9=-271/1273, 9-10=0/35
BOT CHORD	2-16=-403/1896, 14-16=-366/1624, 13-14=-225/1037, 11-13=-223/1037, 9-11=-1110/304
WEBS	3-16=-380/213, 4-16=-56/431, 5-16=-194/115, 5-14=-541/185, 6-14=-57/325, 7-14=-64/372, 7-13=0/73, 7-11=-2393/591, 8-11=-839/259

- 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=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 9-0-0, Zone2 9-0-0 to 14-0-0, Zone1 14-0-0 to 19-0-0, Zone3 19-0-0 to 22-0-0, Zone1 22-0-0 to 28-0-0, Zone2 28-0-0 to 32-9-11, Zone1 32-9-11 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 9, 533 lb uplift at joint 11 and 261 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 27,2026

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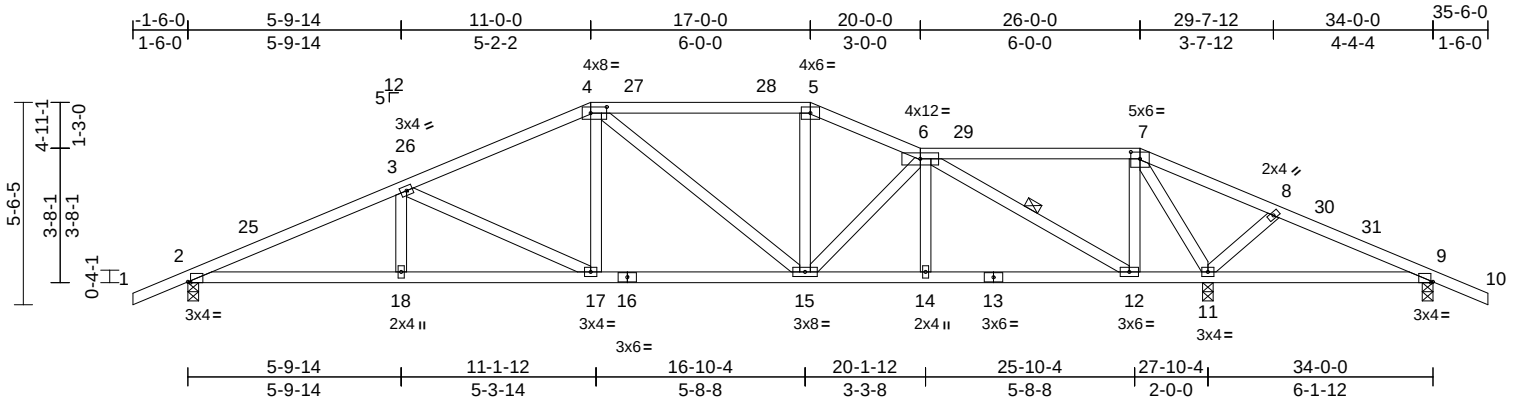
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5591906	T13	Roof Special	1	1	T41982916
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:01
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Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-0-14,Edge], [4:0-5-4,0-2-0], [7:0-3-0,0-2-4], [9:0-0-10,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	0.55	Vert(LL)	-0.09	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.20	15-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 178 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-12

REACTIONS

(size) 2=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 2=87 (LC 16)
Max Uplift 2=-267 (LC 12), 9=-199 (LC 25), 11=-480 (LC 9)
Max Grav 2=1107 (LC 1), 9=38 (LC 12), 11=1895 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2115/465, 3-4=-1560/388, 4-5=-1256/359, 5-6=-1386/374, 6-7=-6/154, 7-8=-209/1155, 8-9=-177/959, 9-10=0/35
BOT CHORD 2-18=-421/1904, 17-18=-421/1904, 15-17=-222/1392, 14-15=-245/1295, 12-14=-244/1299, 11-12=-184/119, 9-11=-834/211
WEBS 3-17=-580/240, 4-17=-65/412, 4-15=-276/97, 5-15=-36/299, 6-15=-124/114, 6-14=0/177, 6-12=-1634/383, 7-12=-136/867, 7-11=-1813/392, 8-11=-264/155, 3-18=0/223

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=130mph (3-second gust)
Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 11-0-0, Zone2 11-0-0 to 15-9-11, Zone1 15-9-11 to 17-0-0, Zone3 17-0-0 to 20-0-0, Zone1 20-0-0 to 26-0-0, Zone2 26-0-0 to 30-9-11, Zone1 30-9-11 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 9, 480 lb uplift at joint 11 and 267 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 27,2026

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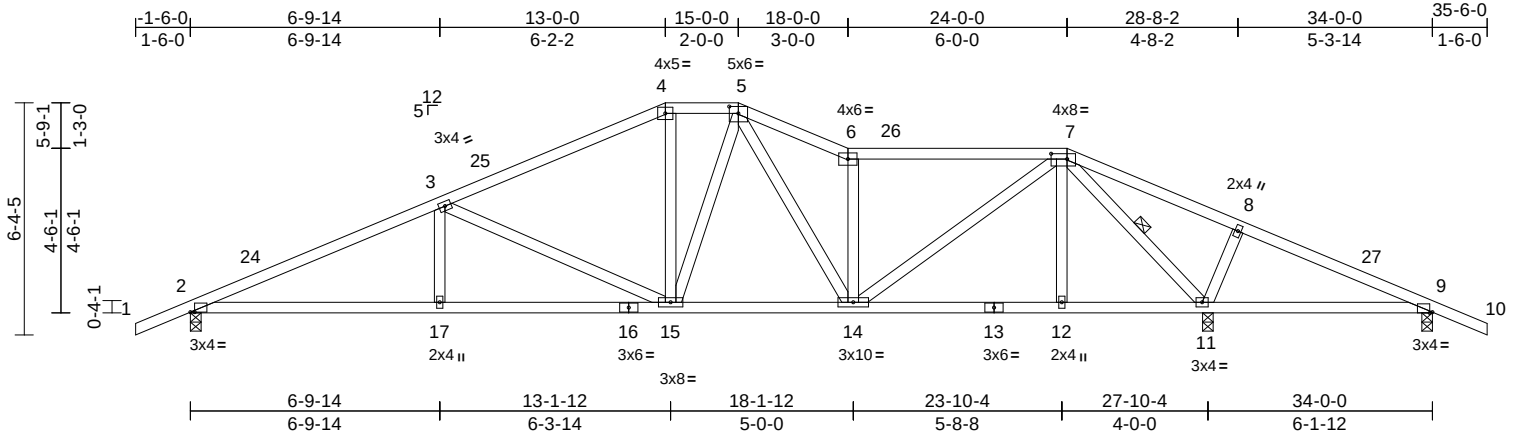
Job	Truss	Truss Type	Qty	Ply	
5591906	T14	Roof Special	1	1	T41982917
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:01

Page: 1

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Scale = 1:63.1

Plate Offsets (X, Y): [2:0-1-6,Edge], [5:0-3-0,0-2-4], [7:0-5-4,0-1-12], [9:0-0-14,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	0.57	Vert(LL)	-0.09	17-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.19	17-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 181 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-11

REACTIONS

(size) 2=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 2=101 (LC 12)
Max Uplift 2=-285 (LC 12), 9=-107 (LC 25), 11=-418 (LC 9)
Max Grav 2=1126 (LC 1), 9=72 (LC 26), 11=1776 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-2114/473, 3-4=-1414/346, 4-5=-1236/353, 5-6=-1530/421, 6-7=-1342/353, 7-8=-137/889, 8-9=-151/778, 9-10=0/35
BOT CHORD 2-17=-452/1896, 15-17=-452/1896, 14-15=-158/1184, 12-14=-20/446, 11-12=-22/444, 9-11=-655/180
WEBS 3-17=0/281, 3-15=-737/291, 4-15=-55/308, 5-15=-91/266, 5-14=-189/433, 6-14=-864/306, 7-14=-244/1104, 7-12=0/174, 7-11=-1821/359, 8-11=-308/176

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 13-0-0, Zone3 13-0-0 to 18-0-0, Zone1 18-0-0 to 24-0-0, Zone2 24-0-0 to 28-8-12, Zone1 28-8-12 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 9, 418 lb uplift at joint 11 and 285 lb uplift at joint 2.

LOAD CASE(S) Standard

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

July 27,2026

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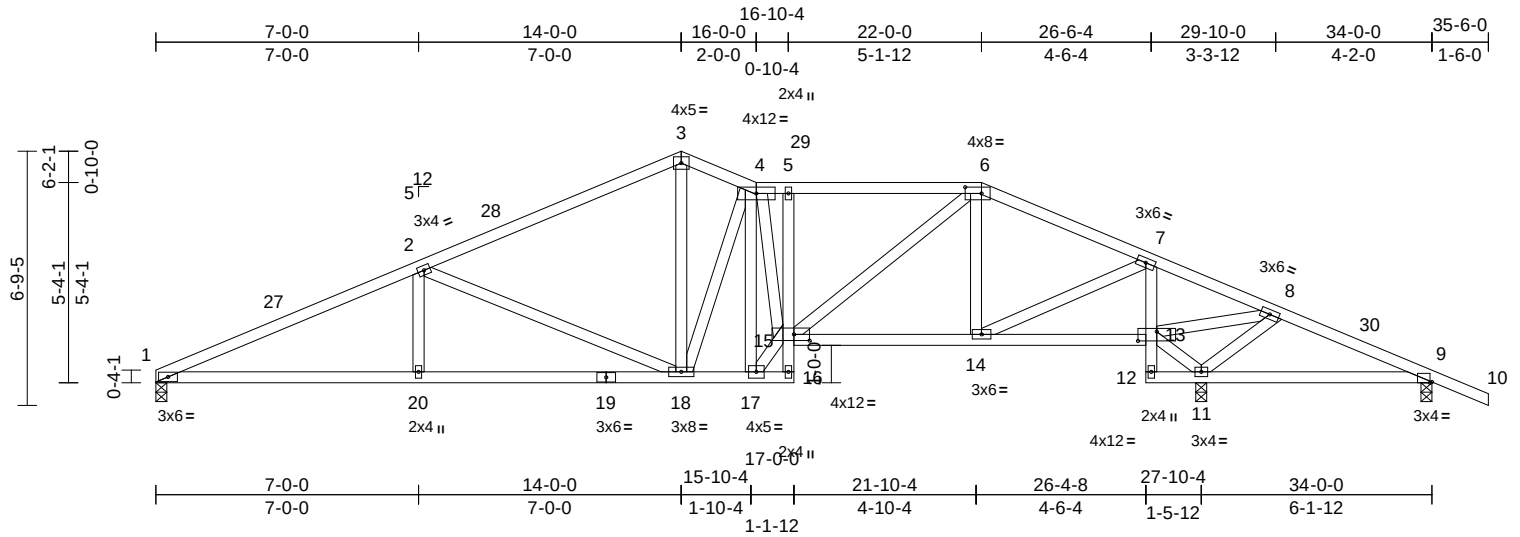
Job	Truss	Truss Type	Qty	Ply	
5591906	T15	Roof Special	1	1	T41982918
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:01

Page: 1

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Scale = 1:61.4

Plate Offsets (X, Y): [6:0-5-4,0-2-0], [9:0-0-10,Edge], [13:0-6-0,0-3-0], [15:0-5-0,0-2-0]

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	0.58	Vert(LL)	-0.10	20-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.23	18-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 197 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 16-5,7-12:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 1=-118 (LC 13)
Max Uplift 1=-254 (LC 12), 9=-147 (LC 25), 11=-428 (LC 13)
Max Grav 1=1018 (LC 1), 9=35 (LC 12), 11=1882 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2083/503, 2-3=-1302/321, 3-4=-1208/340, 4-5=-1427/380, 5-6=-1457/385, 6-7=-921/267, 7-8=-107/611, 8-9=-149/909, 9-10=0/35
BOT CHORD 1-20=-488/1883, 18-20=-488/1883, 17-18=-190/1208, 16-17=-25/111, 15-16=-23/15, 5-15=-285/164, 14-15=-66/780, 13-14=-497/172, 12-13=-104/62, 7-13=-1392/340, 11-12=-49/9, 9-11=-790/164
WEBS 4-17=-1058/145, 15-17=-242/1594, 4-15=-170/915, 6-15=-209/860, 6-14=-467/135, 7-14=-255/1423, 11-13=-1819/444, 8-11=-802/242, 8-13=-181/895, 2-20=0/305, 2-18=-835/332, 3-18=-151/619, 4-18=-311/159

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 14-0-0, Zone3 14-0-0 to 16-0-0, Zone1 16-0-0 to 22-0-0, Zone2 22-0-0 to 26-6-4, Zone1 26-6-4 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 1, 147 lb uplift at joint 9 and 428 lb uplift at joint 11.

LOAD CASE(S) Standard

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

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

July 27,2026

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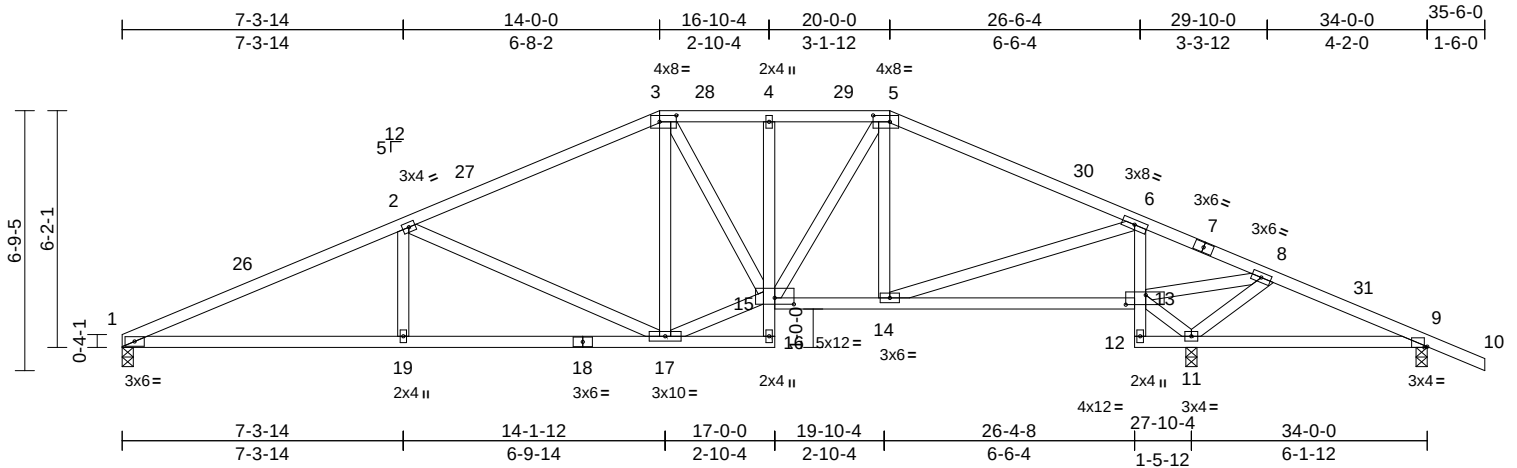
Job	Truss	Truss Type	Qty	Ply	
5591906	T16	Hip	1	1	T41982919
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02

Page: 1

ID:9fxatj1VAXQXETOUlwRTuFznkr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDOI7J4zJC?f



Scale = 1:60

Plate Offsets (X, Y): [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [9:0-0-14,Edge], [13:0-6-4,0-3-0], [15:0-6-0,0-2-0]

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	0.60	Vert(LL)	0.11	19-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.24	19-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 190 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 16-4,6-12:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 1=-118 (LC 13)
Max Uplift 1=-277 (LC 12), 9=-107 (LC 25), 11=-374 (LC 13)
Max Grav 1=1041 (LC 1), 9=77 (LC 26), 11=1753 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2112/553, 2-3=-1345/363, 3-4=-1261/360, 4-5=-1265/360, 5-6=-1199/281, 6-8=-53/263, 8-9=-124/651, 9-10=0/35
BOT CHORD 1-19=-530/1907, 17-19=-530/1907, 16-17=-12/56, 15-16=-3/16, 4-15=-158/76, 14-15=-131/1021, 13-14=-159/88, 12-13=-103/60, 6-13=-1219/303, 11-12=-60/4, 9-11=-555/141
WEBS 2-19=0/310, 2-17=-823/326, 3-17=-29/158, 15-17=-236/1176, 3-15=-39/279, 5-15=-169/512, 5-14=-238/106, 6-14=-232/1199, 11-13=-1582/386, 8-11=-849/220, 8-13=-176/1028

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 14-0-0, Zone2 14-0-0 to 18-9-11, Zone1 18-9-11 to 20-0-0, Zone2 20-0-0 to 24-9-11, Zone1 24-9-11 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 1, 107 lb uplift at joint 9 and 374 lb uplift at joint 11.

LOAD CASE(S) Standard

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

July 27,2026

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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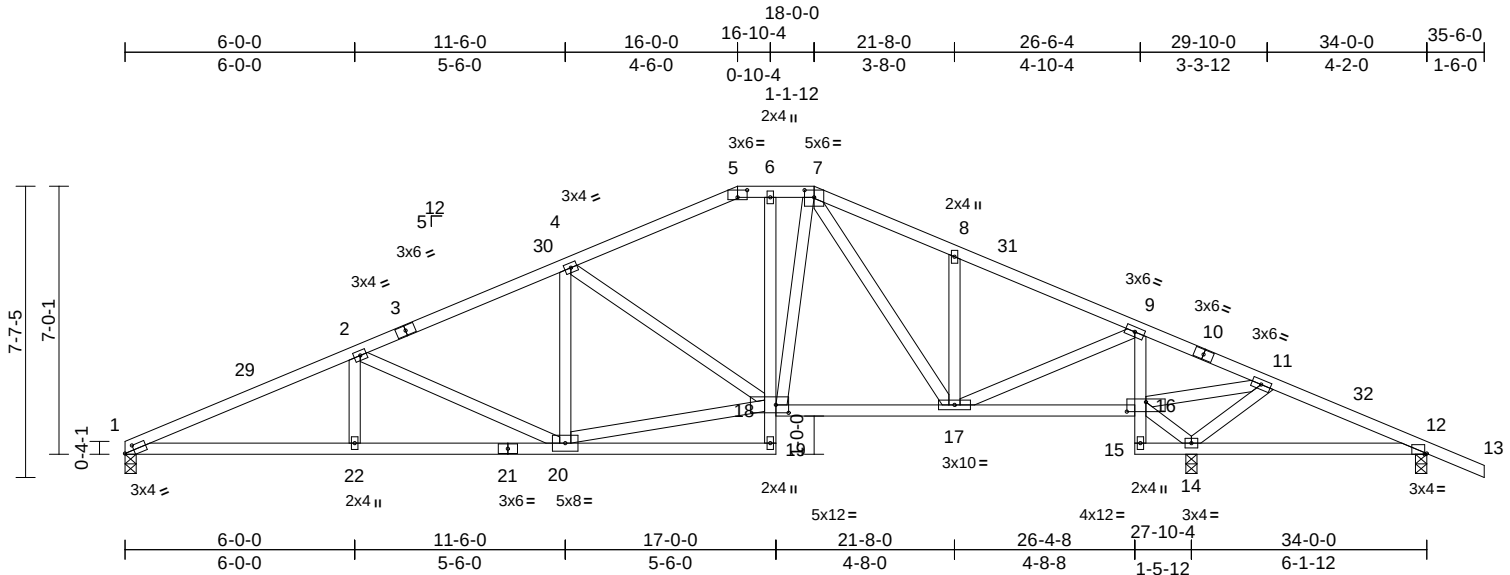
Job	Truss	Truss Type	Qty	Ply	
5591906	T17	Hip	1	1	T41982920
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02

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Scale = 1:60.2

Plate Offsets (X, Y): [1:0-3-0,0-1-8], [5:0-3-0,0-2-4], [7:0-3-0,0-2-4], [12:0-0-10,Edge], [16:0-6-0,0-3-0], [18:0-4-0,0-2-8]

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	0.37	Vert(LL)	-0.08	20-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.17	19-20	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 199 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 19-6,9-15:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 12=0-3-8, 14=0-3-8
Max Horiz 1=-132 (LC 13)
Max Uplift 1=-271 (LC 12), 12=-137 (LC 25), 14=-385 (LC 13)
Max Grav 1=1030 (LC 1), 12=53 (LC 26), 14=1815 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2161/561, 2-4=-1587/421, 4-5=-1157/317, 5-6=-1016/318, 6-7=-1027/319, 7-8=-1004/316, 8-9=-1012/239, 9-11=-92/439, 11-12=-153/771, 12-13=0/35
BOT CHORD 1-22=-562/1959, 20-22=-562/1959, 19-20=-13/85, 18-19=0/103, 6-18=-83/367, 17-18=-140/976, 16-17=-332/136, 15-16=-102/61, 9-16=-1306/303, 14-15=-46/8, 12-14=-663/168
WEBS 7-18=-115/349, 7-17=-273/68, 9-17=-261/1324, 14-16=-1691/396, 11-14=-833/226, 11-16=-156/951, 2-22=0/231, 2-20=-616/246, 4-20=-7/246, 8-17=-271/169, 18-20=-331/1335, 4-18=-497/219

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 16-0-0, Zone3 16-0-0 to 18-0-0, Zone2 18-0-0 to 22-9-11, Zone1 22-9-11 to 35-6-0 zone; porch 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 1, 137 lb uplift at joint 12 and 385 lb uplift at joint 14.

LOAD CASE(S) Standard

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

July 27,2026

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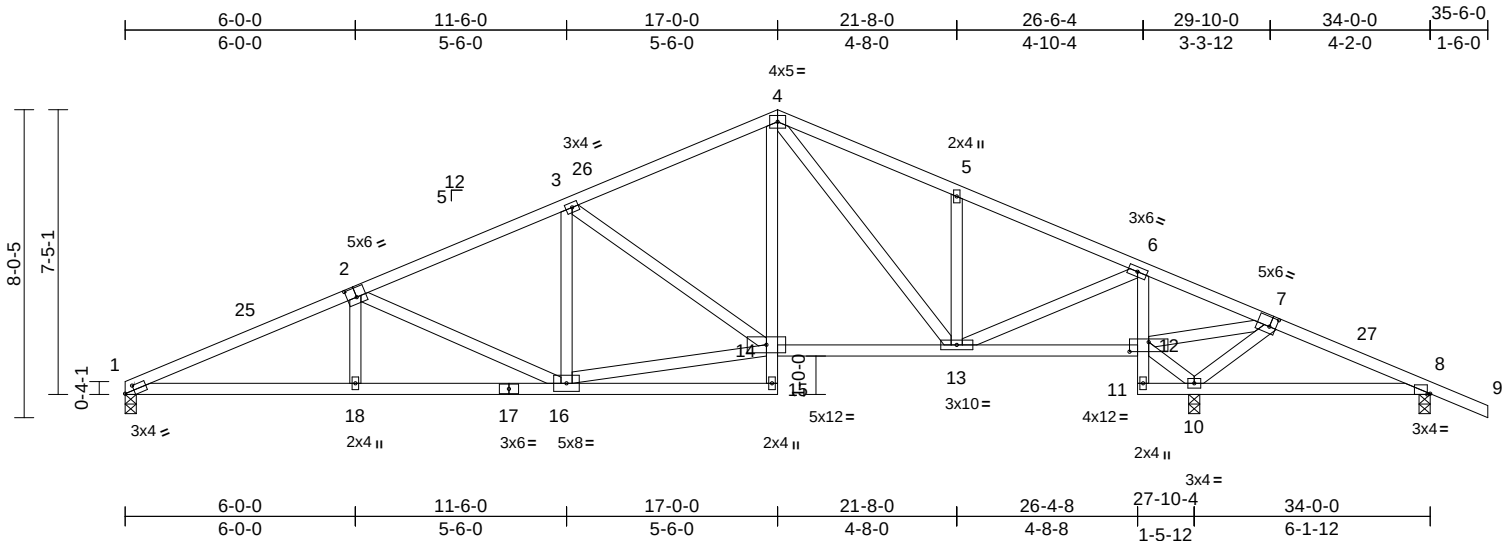
Job	Truss	Truss Type	Qty	Ply	
5591906	T18	Roof Special	2	1	T41982921
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02

Page: 1

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Scale = 1:60

Plate Offsets (X, Y): [1:0-3-0,0-1-8], [2:0-3-0,0-3-0], [7:0-2-0,0-3-0], [8:0-0-14,Edge], [12:0-6-0,0-3-0]

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	0.38	Vert(LL)	-0.08	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.17	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 193 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 15-4,6-11:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=0-3-8, 8=0-3-8, 10=0-3-8
Max Horiz 1=-139 (LC 13)
Max Uplift 1=-270 (LC 12), 8=-120 (LC 25), 10=-378 (LC 13)
Max Grav 1=1033 (LC 1), 8=74 (LC 26), 10=1797 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2166/557, 3-4=-1160/314, 4-5=-1035/328, 5-6=-1033/240, 6-8=-157/744, 8-9=0/35
BOT CHORD 1-18=-565/1963, 16-18=-565/1964, 15-16=-9/71, 14-15=0/103, 4-14=-174/637, 13-14=-151/995, 12-13=-296/144, 11-12=-102/62, 6-12=-1280/293, 10-11=-45/9, 8-10=-638/171
WEBS 2-16=-604/239, 3-16=0/234, 14-16=-345/1368, 3-14=-535/236, 4-13=-263/70, 6-13=-267/1309, 10-12=-1630/378, 5-13=-305/188, 7-10=-831/222, 7-12=-149/945, 2-18=0/231

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=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-8-0, Zone1 21-8-0 to 35-6-0 zone; porch 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 270 lb uplift at joint 1, 120 lb uplift at joint 8 and 378 lb uplift at joint 10.

LOAD CASE(S) Standard

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

July 27,2026

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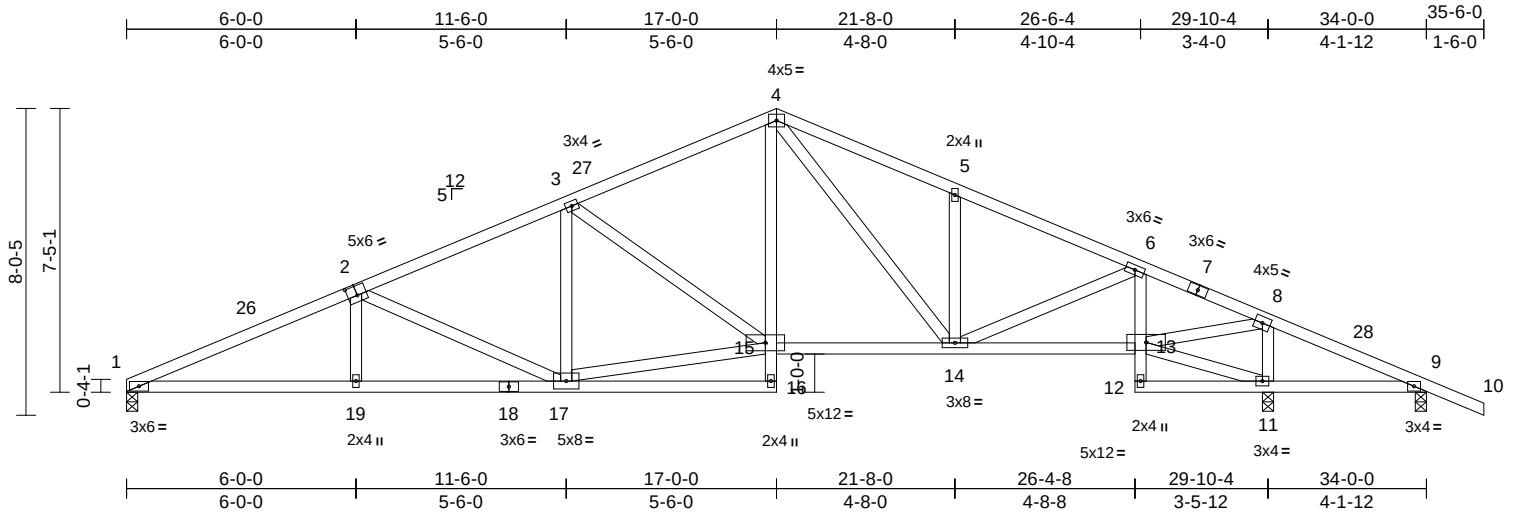
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5591906	T19	Roof Special	2	1	T41982922
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02
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Page: 1



Scale = 1:60.3

Plate Offsets (X, Y): [2:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.10	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.22	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 194 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 16-4,6-12:2x4 SP No.3
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-0-14 oc bracing.

REACTIONS (size) 1=0-3-8, 9=0-3-8, 11=0-3-8
Max Horiz 1=-139 (LC 13)
Max Uplift 1=-285 (LC 12), 9=-310 (LC 25), 11=-425 (LC 13)
Max Grav 1=1114 (LC 1), 9=83 (LC 12), 11=2004 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2371/595, 3-4=-1403/359, 4-5=-1489/421, 5-6=-1485/333, 6-8=-790/212, 8-9=-275/1405, 9-10=0/35
BOT CHORD 1-19=-600/2152, 17-19=-600/2153, 16-17=-11/80, 15-16=0/103, 4-15=-176/651, 14-15=-192/1220, 13-14=-86/720, 12-13=-1/34, 6-13=-750/182, 11-12=-22/8, 9-11=-1249/279
WEBS 2-17=-601/239, 3-17=0/207, 15-17=-380/1555, 3-15=-509/229, 4-14=-173/296, 6-14=-143/659, 11-13=-1289/288, 2-19=0/230, 5-14=-309/190, 8-11=-1475/348, 8-13=-345/1979

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.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-4-13, Zone1 3-4-13 to 17-0-0, Zone2 17-0-0 to 21-8-0, Zone1 21-8-0 to 35-6-0 zone; porch 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 285 lb uplift at joint 1, 310 lb uplift at joint 9 and 425 lb uplift at joint 11.

LOAD CASE(S) Standard

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

July 27,2026

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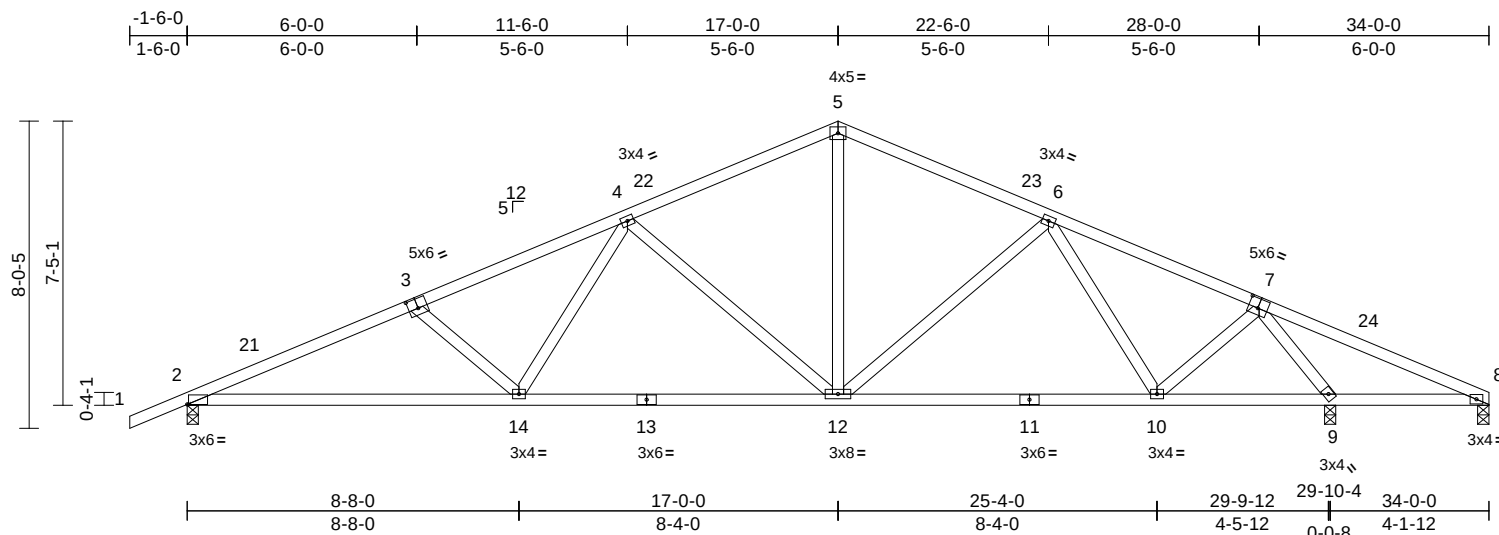


Plate Offsets (X, Y): [2:0-0-6.Edge], [3:0-3-0.0-3-0], [7:0-3-0.0-3-0]

Loading	(psf)	Spacing	2-0-0		CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	0.57	TC	Vert(LL)	-0.13	14-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	0.83	BC	Vert(CT)	-0.30	14-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	0.71	WB	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-MS						Weight: 170 lb	FT = 20%

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

TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 5-4-10 oc bracing.

(size)	2=0-3-8, 8=0-3-8, 9=0-3-8
Max Horiz	2=139 (LC 16)
Max Uplift	2=-327 (LC 12), 8=-251 (LC 25), 9=-394 (LC 13)
Max Grav	2=1233 (LC 1), 8=78 (LC 12), 9=1826 (LC 1)

Tension

TOP CHORD 1-2=0/35, 2-4=-2370/597, 4-5=-1289/327,
5-6=-1289/344, 6-8=-1027/1099

BOT CHORD 2-14=-610/2154, 12-14=-403/1640,
10-12=-175/1138, 9-10=-81/343,
8-9=-949/240

WEBS 4-14=-111/526, 3-14=-362/206,
4-12=-691/299, 5-12=-142/634,
6-12=-144/158, 6-10=-496/154,
7-10=-124/794, 7-9=-2084/467

- 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=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 34-0-0 zone; porch 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 251 lb uplift at joint 8, 394 lb uplift at joint 9 and 327 lb uplift at joint 2.

LOAD CASE(S) Standard

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

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

July 27, 2026



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

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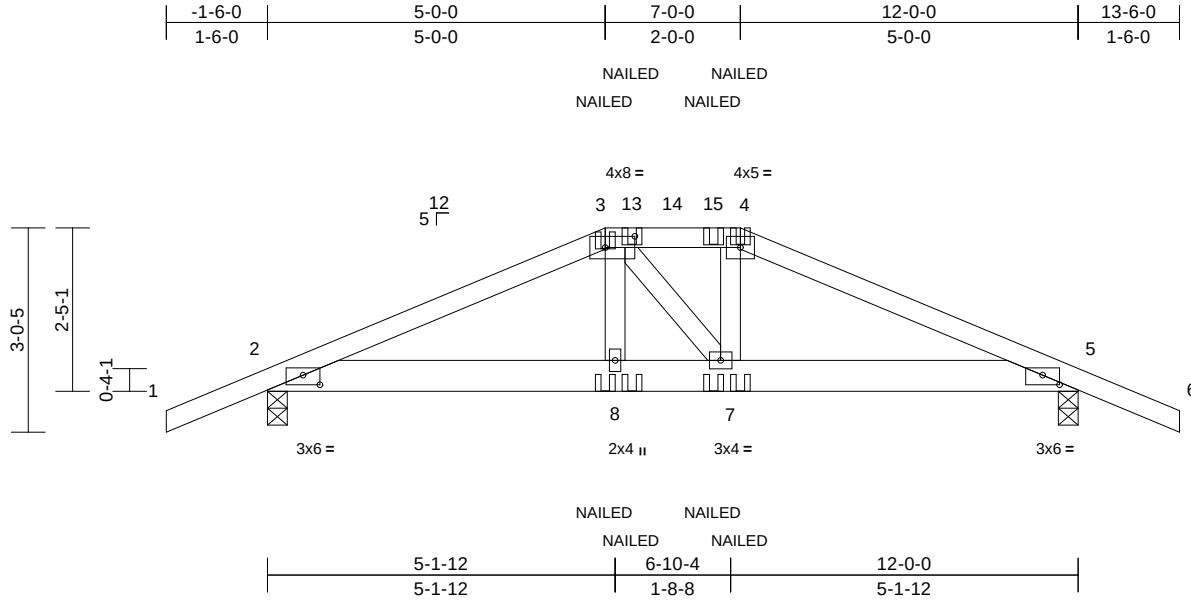
Job	Truss	Truss Type	Qty	Ply	
5591906	T21	Hip Girder	1	1	T41982924
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02

Page: 1

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Scale = 1:34.1

Plate Offsets (X, Y): [2:0-3-0,0-1-11], [3:0-5-4,0-2-0], [5:0-3-0,0-1-11]

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	0.26	Vert(LL)	0.04	7-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.06	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 61 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 5=0-3-8
Max Horiz 2=-45 (LC 28)
Max Uplift 2=-362 (LC 4), 5=-362 (LC 5)
Max Grav 2=808 (LC 1), 5=808 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1411/626, 3-4=-1275/599, 4-5=-1412/626, 5-6=0/35
BOT CHORD 2-8=-524/1260, 7-8=-529/1274, 5-7=-526/1260
WEBS 3-8=-81/266, 3-7=-73/74, 4-7=-77/269

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone; porch 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 362 lb uplift at joint 2 and 362 lb uplift at joint 5.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-83 (F), 4=-83 (F), 8=-92 (F), 7=-92 (F), 13=-63 (F), 15=-63 (F)

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Date:

July 27,2026

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 the 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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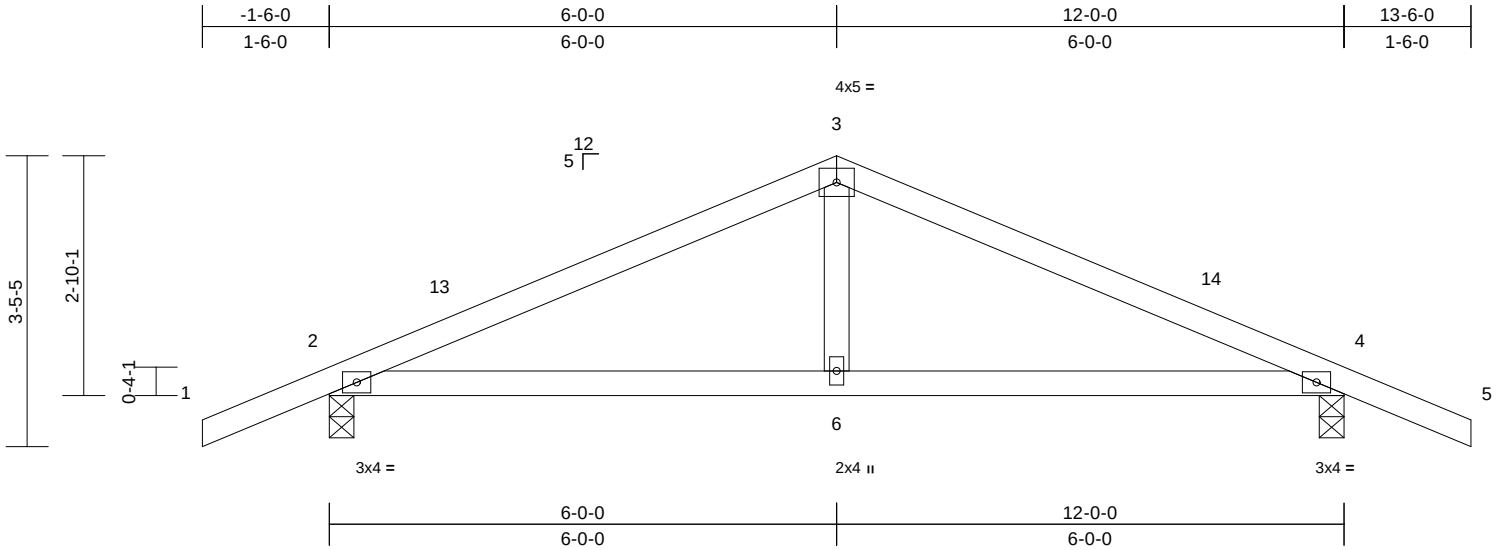
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Job	Truss	Truss Type	Qty	Ply	
5591906	T22	Common	2	1	T41982925
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Fri Jul 24 10:00:02
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Page: 1



Scale = 1:27.2

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)	0.05	6-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.08	6-12	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 46 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=-52 (LC 13)
Max Uplift 2=-237 (LC 8), 4=-237 (LC 9)
Max Grav 2=570 (LC 1), 4=570 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-742/453, 3-4=-742/457, 4-5=0/35
BOT CHORD 2-6=-323/631, 4-6=-323/631
WEBS 3-6=-150/277

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=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 237 lb uplift at joint 2 and 237 lb uplift at joint 4.

LOAD CASE(S) Standard

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

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

July 27,2026

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

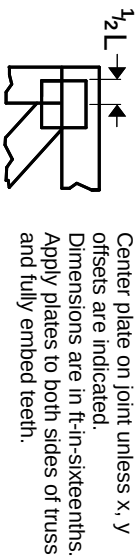
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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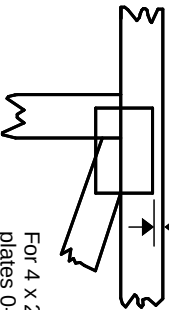
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Symbols

PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

—
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

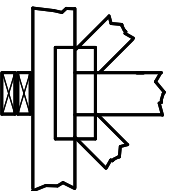
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

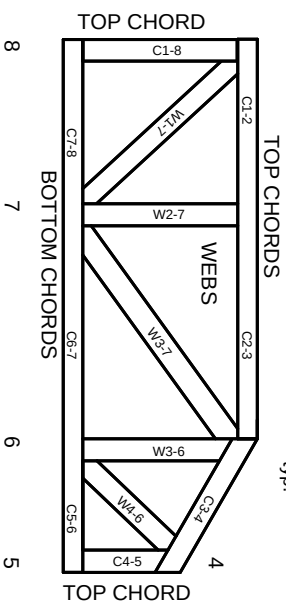
Industry Standards:

ANSI/TP1.1: 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

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.