MiTek®

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

RE: 5334505 -

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

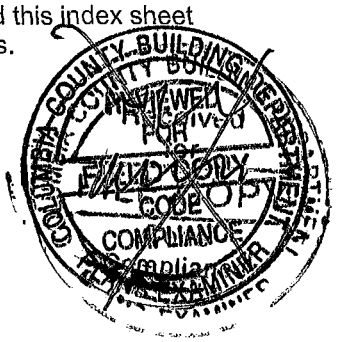
Site Information:
Customer Info: YASMANIS REYES Project Name: Ford Septic Service Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 116 NW Lawtey Ave., N/A
City: Lake City, State: FL

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

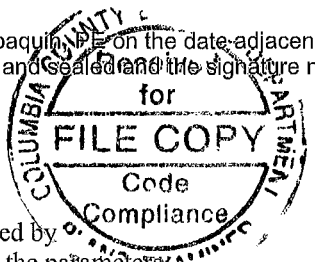
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 27 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	T40608580	CJ01	3/27/26	15	T40608594	HJ03	3/27/26
2	T40608581	CJ02	3/27/26	16	T40608595	T01	3/27/26
3	T40608582	CJ03	3/27/26	17	T40608596	T01A	3/27/26
4	T40608583	CJ04	3/27/26	18	T40608597	T02	3/27/26
5	T40608584	CJ05	3/27/26	19	T40608598	T03	3/27/26
6	T40608585	CJ06	3/27/26	20	T40608599	T04	3/27/26
7	T40608586	CJ07	3/27/26	21	T40608600	T05	3/27/26
8	T40608587	CJ08	3/27/26	22	T40608601	T06	3/27/26
9	T40608588	EJ01	3/27/26	23	T40608602	T07	3/27/26
10	T40608589	EJ02	3/27/26	24	T40608603	V01	3/27/26
11	T40608590	EJ03	3/27/26	25	T40608604	V02	3/27/26
12	T40608591	EJ04	3/27/26	26	T40608605	V03	3/27/26
13	T40608592	HJ01	3/27/26	27	T40608606	V04	3/27/26
14	T40608593	HJ02	3/27/26				

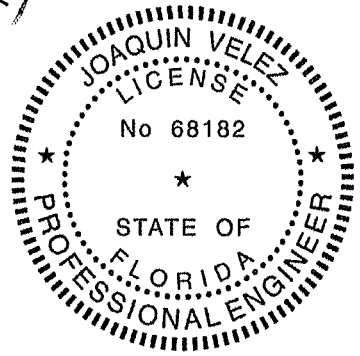


This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies



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: Velez, Joaquin
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

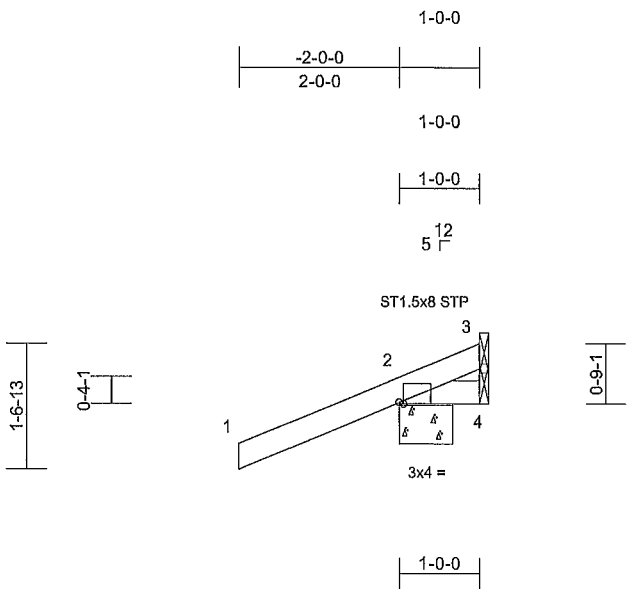
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd Chesterfield, MO 63017
Date:

March 27,2026

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ01	Jack-Open	4	1	T40608580 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print. 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39 16 ID.4M8cfDlQ9J_SeHsiw6IlkNzZ0Az-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1 27.4

Plate Offsets (X, Y) [2 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 28	Vert(LL)	0 00	7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 05	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 7 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 1-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=45 (LC 8)
Max Uplift 2=-147 (LC 8), 3=-28 (LC 1), 4=-54 (LC 1)
Max Grav 2=281 (LC 1), 3=26 (LC 8) 4=44 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-116/80
BOT CHORD 2-4=-92/133

NOTES
1) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2 54 lb uplift at joint 4 and 28 lb uplift at joint 3

LOAD CASE(S) Standard

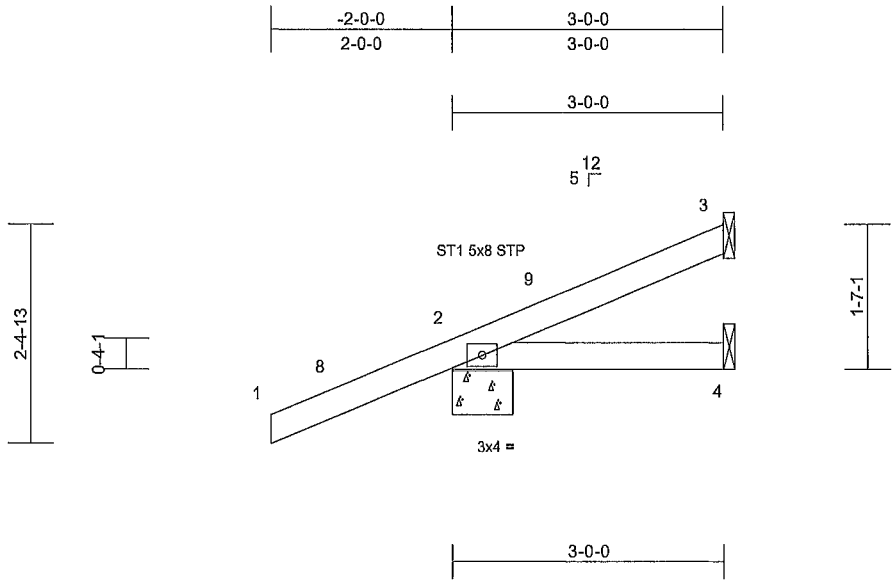
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ02	Jack-Open	3	1	T40608581 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City FL - 32055 Run 8.83 S Mar 11 2026 Print: 8 830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39:17 Page 1
ID:z7N7VaLwDXVu6vAT9yNhuDzZ0Av-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f



Scale = 1.24.2

Plate Offsets (X, Y) [2 0-1-14,0-0-2]

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 28	Vert(LL)	0 00	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 06	Vert(CT)	0 00	4-7	>999	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 13 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 3-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-8-0 3= Mechanical, 4= Mechanical
Max Horiz 2=75 (LC 12)
Max Uplift 2=-103 (LC 8), 3=-32 (LC 12)
Max Grav 2=278 (LC 1), 3=56 (LC 1), 4=46 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-174/83
BOT CHORD 2-4=-92/161

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 3 and 103 lb uplift at joint 2

LOAD CASE(S) Standard

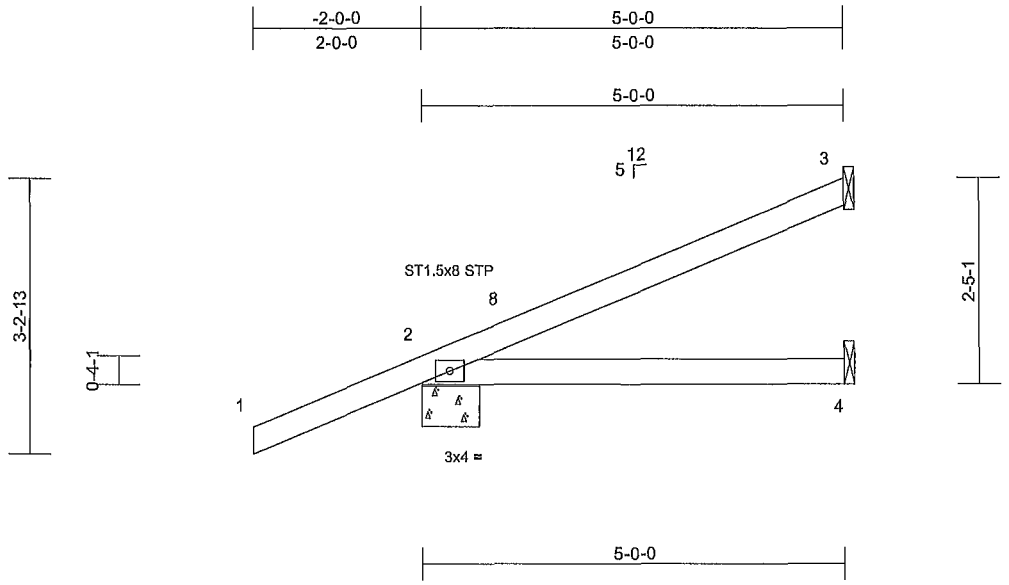
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ03	Jack-Open	3	1	T40608582 Job Reference (optional)

Builders FirstSource (Lake City FL), Lake City FL - 32055, Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39:17 Page: 1
ID:vWVtvGNAl9lcMDKsGNP9zezZ0At-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:25 9

Plate Offsets (X, Y) [2 0-1-14,0-0-2]

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 28	Vert(LL)	0 02	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 23	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. 19 lb	FT = 20%

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

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

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=107 (LC 12)
Max Uplift 2=-104 (LC 12), 3=-67 (LC 12)
Max Grav 2=342 (LC 1), 3=118 (LC 1), 4=87 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-191/56
BOT CHORD 2-4=-60/148

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 3 and 104 lb uplift at joint 2

LOAD CASE(S) Standard

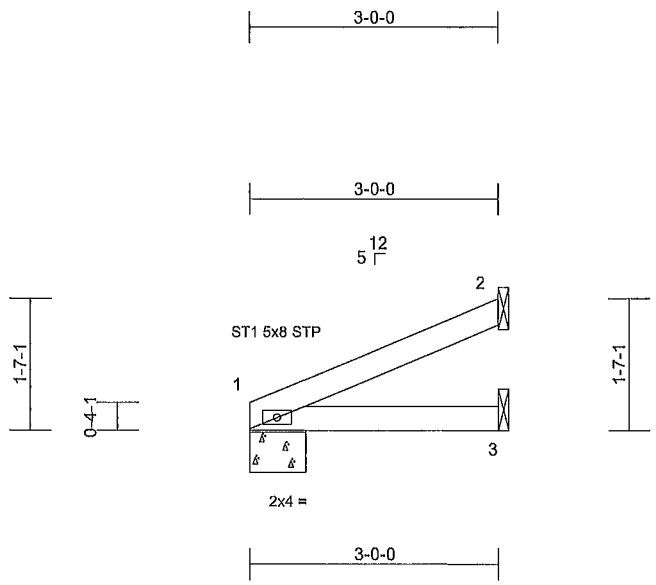
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ04	Jack-Open	1	1	T40608583 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39:17 Page: 1
ID rudeKyORHm?KbWTFOoSd23zZ0Ar-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1 26.5

Plate Offsets (X, Y) [1 0-1-14,0-0-10]

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

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

REACTIONS (size) 1=0-8-0, 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
1) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) 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

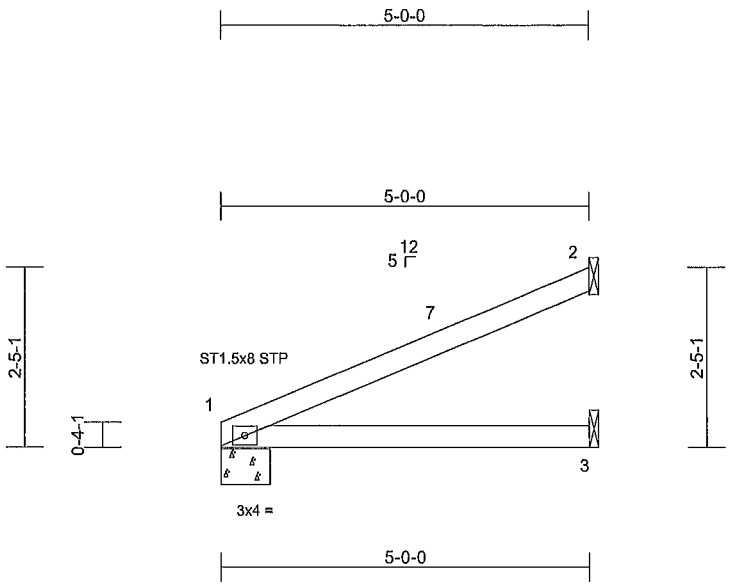
LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ05	Jack-Open	1	1	T40608584 Job Reference (optional)

Builders FirstSource (Lake City FL), Lake City FL - 32055, Run. 8.83 S Mar 11 2026 Print 8.830 S Mar 11 2026 MiTek Industries Inc. Thu Mar 26 12:39 17 Page: 1
ID nHlOleQhpNF1qqddVDU57UzZ0Ap-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1 29 7

Plate Offsets (X, Y) [1 0-1-14,0-0-2]

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 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

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

REACTIONS (size) 1=0-8-0, 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) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) 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

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

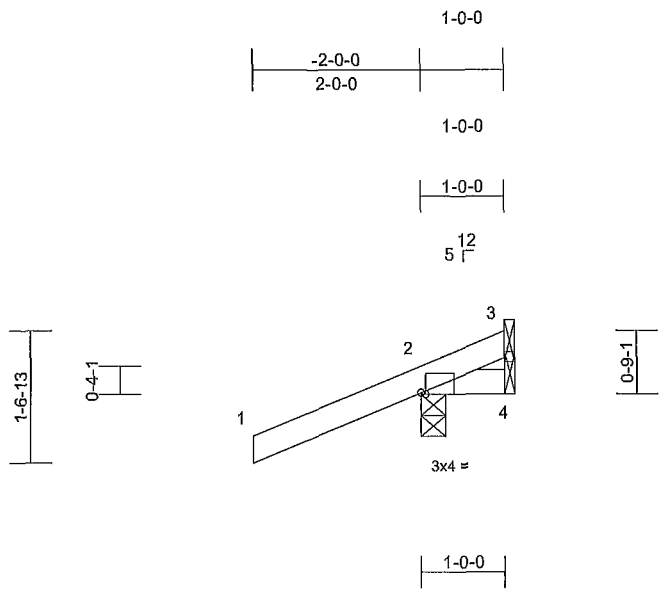
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ06	Jack-Open	8	1	T40608585 Job Reference (optional)

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12 39 17 Page 1
ID 10noejXKh8OmQCpMXc8C?NzZ0Ag-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1 26.2

Plate Offsets (X, Y) [2 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	0.28	Vert(LL)	0 00	7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 05	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. 7 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 1-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=45 (LC 8)
Max Uplift 2=-156 (LC 8), 3=-28 (LC 1), 4=-54 (LC 1)
Max Grav 2=281 (LC 1), 3=22 (LC 8), 4=38 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-113/80
BOT CHORD 2-4=-92/130

NOTES
1) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2, 54 lb uplift at joint 4 and 28 lb uplift at joint 3

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

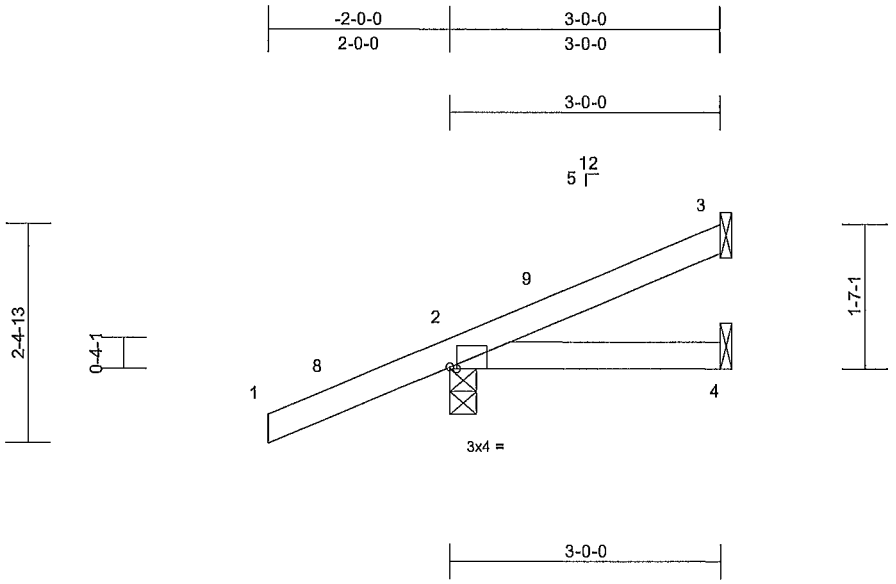
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ07	Jack-Open	4	1	T40608586
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39:17 Page: 1
ID gKWK9pgssqu3s2kfE7M1UvzZ0AU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1.24.2

Plate Offsets (X, Y) [2 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 28	Vert(LL)	0 00	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 06	Vert(CT)	0 00	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. 13 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 3-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=75 (LC 12)
Max Uplift 2=-130 (LC 8), 3=-32 (LC 12), 4=-16 (LC 9)
Max Grav 2=278 (LC 1), 3=56 (LC 1), 4=46 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-155/83
BOT CHORD 2-4=-92/146

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 3, 130 lb uplift at joint 2 and 16 lb uplift at joint 4

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

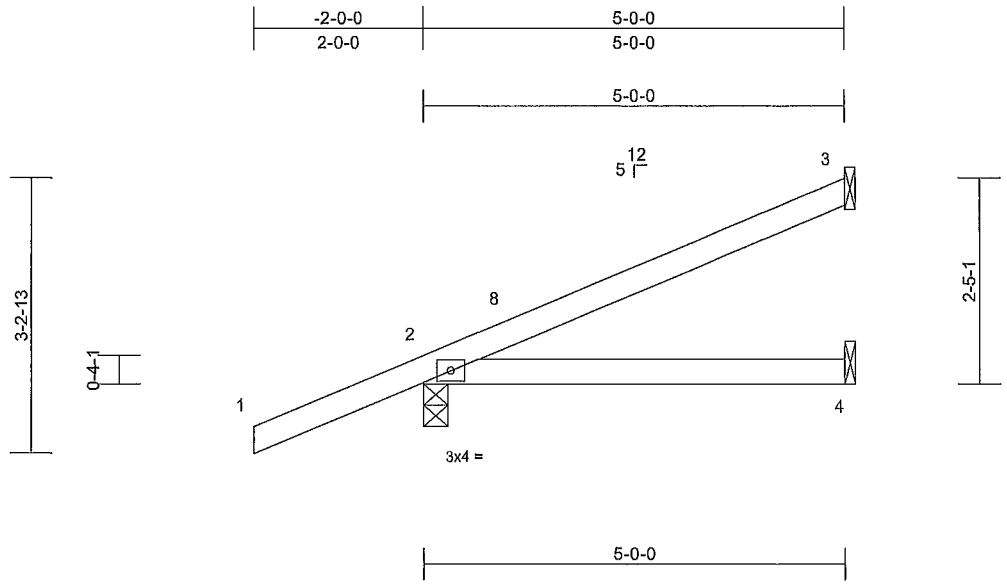
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	CJ08	Jack-Open	4	1	T40608587 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12 39 17 Page: 1
ID:siCv1O0QGRQ4DMt2t0sbdpzZ0A2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 28	Vert(LL)	0 04	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.23	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. 19 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=107 (LC 12)
Max Uplift 2=-146 (LC 8), 3=-67 (LC 12), 4=-32 (LC 9)
Max Grav 2=342 (LC 1), 3=118 (LC 1), 4=87 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-152/68
BOT CHORD 2-4=-60/122

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 3, 146 lb uplift at joint 2 and 32 lb uplift at joint 4

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

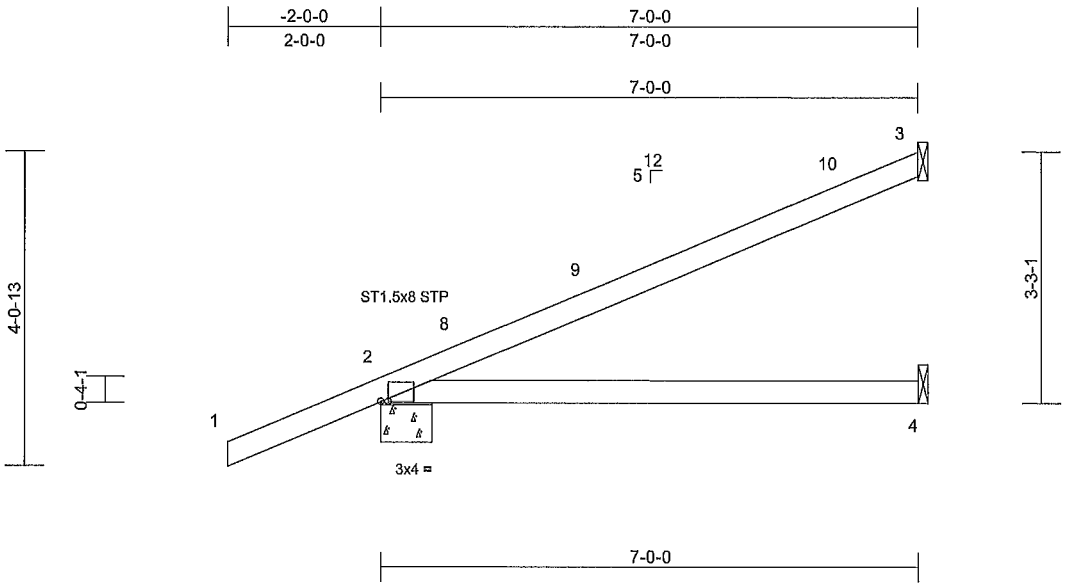
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	EJ01	Jack-Partial	7	1	T40608588
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39:17 Page: 1
ID:1MQwUnYfgG5i6Gph0yA8xIzZ09L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1 28.5

Plate Offsets (X Y): [2 0-1-2,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 65	Vert(LL)	0 09	4-7	>877	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 51	Vert(CT)	-0.22	4-7	>381	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: 25 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-8-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=135 (LC 12)
Max Uplift 2=-119 (LC 12), 3=-88 (LC 12)
Max Grav 2=415 (LC 1), 3=176 (LC 1), 4=126 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-190/53
BOT CHORD 2-4=-23/118

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 3 and 119 lb uplift at joint 2

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

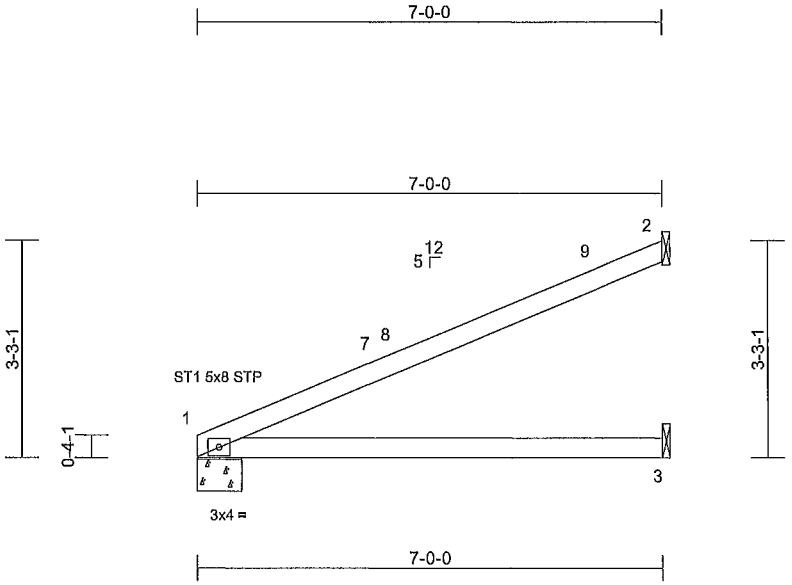
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	EJ02	Jack-Partial	2	1	T40608589
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39:18 Page: 1
ID:K7AQ8_0YSqwIjaoNxAmvjPzZ02I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1.33

Plate Offsets (X, Y). [1 0-1-14,0-0-2]

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 71	Vert(LL)	0 12	3-6	>679	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 56	Vert(CT)	-0 25	3-6	>334	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. 22 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 1=0-8-0, 2= Mechanical, 3= Mechanical
Max Horiz 1=107 (LC 12)
Max Uplift 1=-61 (LC 12), 2=-92 (LC 12), 3=-3 (LC 12)
Max Grav 1=278 (LC 1) 2=185 (LC 1), 3=129 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-129/56
BOT CHORD 1-3=-89/129

NOTES
1) 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 6-11-4 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 1, 92 lb uplift at joint 2 and 3 lb uplift at joint 3

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

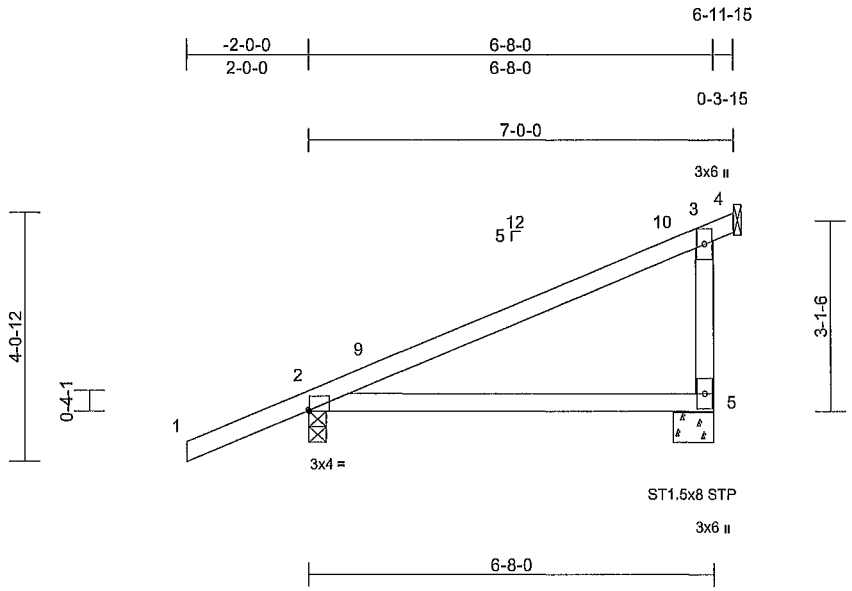
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	EJ03	Jack-Closed	9	1	T40608590
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12 39:18 Page: 1
ID Sv_mRFNMO2iSJB58hUlxxkzZ01q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1 36

Plate Offsets (X, Y) [2 0-0-2,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	0.44	Vert(LL)	0 09	5-8	>897	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.40	Vert(CT)	-0 14	5-8	>546	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. 28 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, except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=0-8-0
Max Horiz 2=135 (LC 12)
Max Uplift 2=-148 (LC 8), 4=-530 (LC 1), 5=-375 (LC 12)
Max Grav 2=365 (LC 1) 4=263 (LC 12), 5=832 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-140/81, 3-4=-214/142 3-5=-765/526
BOT CHORD 2-5=-50/100

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-3 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
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 530 lb uplift at joint 4 375 lb uplift at joint 5 and 148 lb uplift at joint 2

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

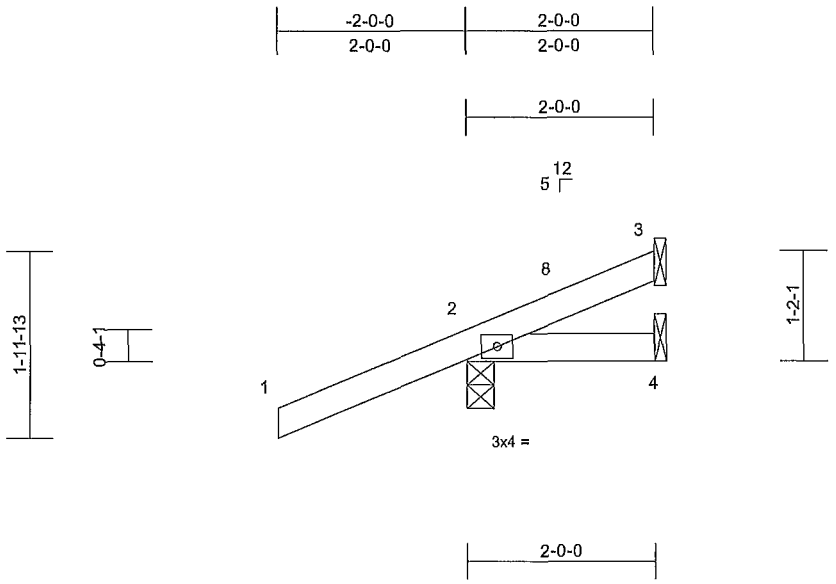
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	T40608591
5334505	EJ04	Jack-Partial	1	1	Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8 830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39:18 Page: 1
ID PNDD7BDHvZWWjyRboAYMnVzZ00k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1 23.3

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	0.28	Vert(LL)	0 00	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 07	Vert(CT)	0 00	4-7	>999	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. 10 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=60 (LC 12)
Max Uplift 2=-112 (LC 8), 3=-12 (LC 12), 4=-2 (LC 1)
Max Grav 2=260 (LC 1), 3=21 (LC 1), 4=25 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-160/93
BOT CHORD 2-4=-101/159

NOTES
1) 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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 1-11-14 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2, 2 lb uplift at joint 4 and 12 lb uplift at joint 3

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

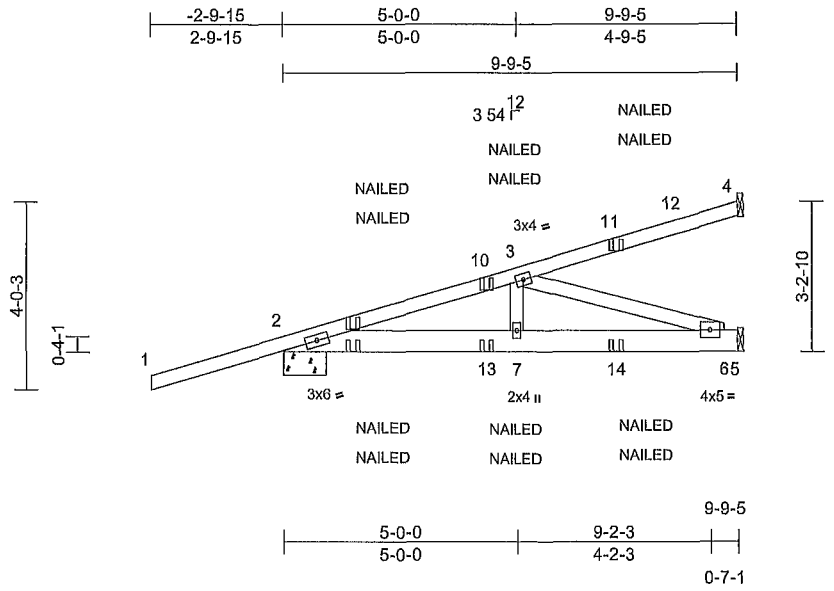
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	T40608592
5334505	HJ01	Diagonal Hip Girder	2	1	Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8 830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39 18 ID:u?WRRr4tetwgBcCBpWJT0zzZ0_K-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1.47

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 61	Vert(LL)	-0 03	7-9	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 36	Vert(CT)	-0 04	6-7	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 32	Horz(CT)	0 01	5	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 51 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 6-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-10-15, 4= Mechanical, 5= Mechanical
Max Horiz 2=149 (LC 25)
Max Uplift 2=-190 (LC 4), 4=-71 (LC 4), 5=-55 (LC 8)
Max Grav 2=485 (LC 18), 4=143 (LC 1) 5=288 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-741/163, 3-4=-61/32
BOT CHORD 2-7=-204/682, 6-7=-204/682, 5-6=0/0
WEBS 3-7=-10/222, 3-6=-716/214

NOTES
1) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4, 190 lb uplift at joint 2 and 55 lb uplift at joint 5
7) "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidlines
8) 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 8=71 (F=35, B=35), 9=84 (F=42, B=42), 11=-67 (F=-34, B=-34), 13=4 (F=2, B=2), 14=-53 (F=-27, B=-27)

This item has been digitally signed and sealed by Velez, Joaquin, 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.

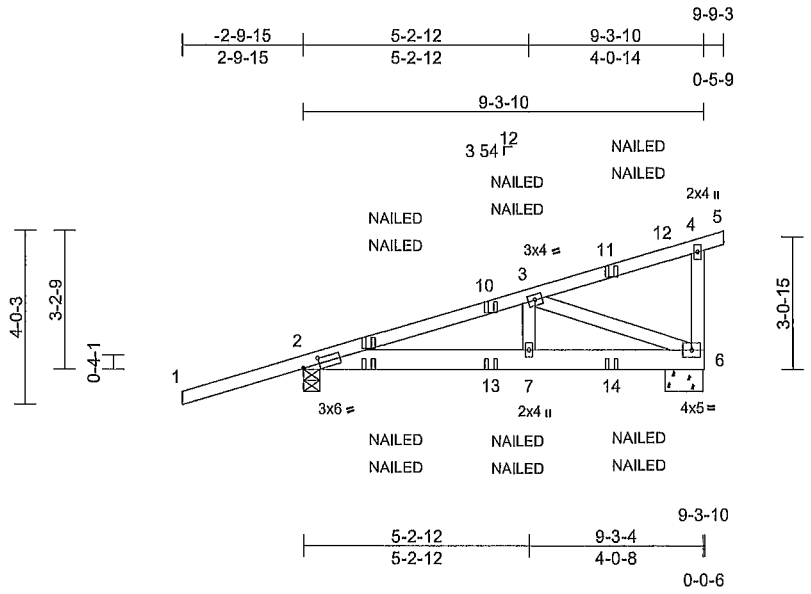
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	T40608593
5334505	HJ02	Roof Special Girder	2	1	Job Reference (optional)

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39 18 ID:mdlNRVmx7tUREYz?RSD3rzZ0?4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1.50.8

Plate Offsets (X, Y): [2 0-4-9 0-1-8]

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 61	Vert(LL)	-0 03	7-9	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.31	Vert(CT)	-0 03	7-9	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 19	Horz(CT)	0 01	6	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 52 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 6-0-0 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-4-9, 6=0-10-9
Max Horiz 2=149 (LC 4)
Max Uplift 2=-235 (LC 4), 6=-235 (LC 5)
Max Grav 2=455 (LC 1), 6=445 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-585/276, 3-4=-78/40 4-5=-10/0, 4-6=-172/85
BOT CHORD 2-7=-304/533, 6-7=-304/533
WEBS 3-7=-57/182 3-6=-538/304

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 235 lb uplift at joint 2 and 235 lb uplift at joint 6
7) "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148"x3.25") toe-nails per NDS guidlines
8) 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 4-5=-60, 2-6=-20
Concentrated Loads (lb)
Vert: 8=71 (F=35, B=35), 9=84 (F=42, B=42), 11=-67 (F=-34, B=-34), 13=4 (F=2, B=2), 14=-53 (F=-27, B=-27)

This item has been digitally signed and sealed by Velez, Joaquin, 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.

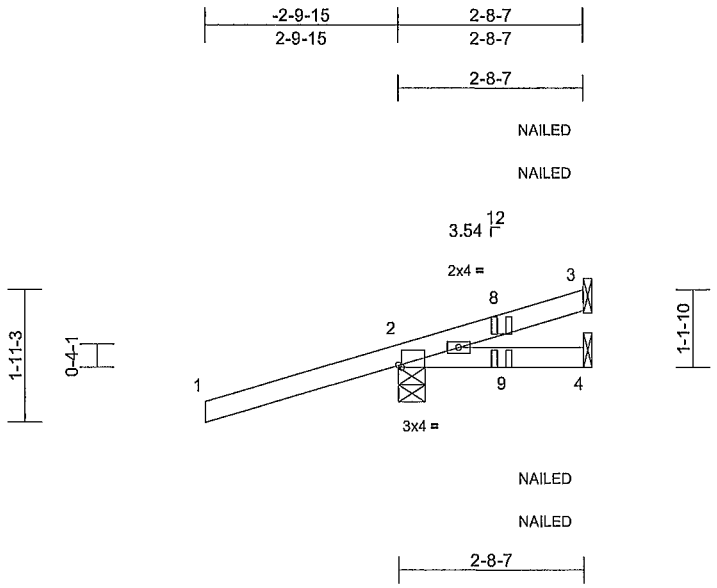
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	HJ03	Diagonal Hip Girder	2	1	T40608594 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries Inc. Thu Mar 26 12.39.19 Page: 1
ID:LIOqgVfsQc2P1UBWukCoE5zZ00A-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1 32

Plate Offsets (X, Y): [2 0-0-8,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 61	Vert(LL)	-0 02	4-7	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 32	Vert(CT)	0 02	4-7	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 00	Horz(CT)	0 00	2	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight. 13 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 2-8-7 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=73 (LC 25)
Max Uplift 2=-195 (LC 4), 3=-85 (LC 21), 4=-109 (LC 21)
Max Grav 2=304 (LC 1), 3=66 (LC 25), 4=82 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-262/329
BOT CHORD 2-4=-332/254

NOTES
1) 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 3, 195 lb uplift at joint 2 and 109 lb uplift at joint 4
7) "NAILED" indicates 3-10d (0 148"x3) or 2-12d (0 148"x3 25") toe-nails per NDS guidlines
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=65 (F=33, B=33), 9=78 (F=39, B=39)

This item has been digitally signed and sealed by Velez, Joaquin, 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.

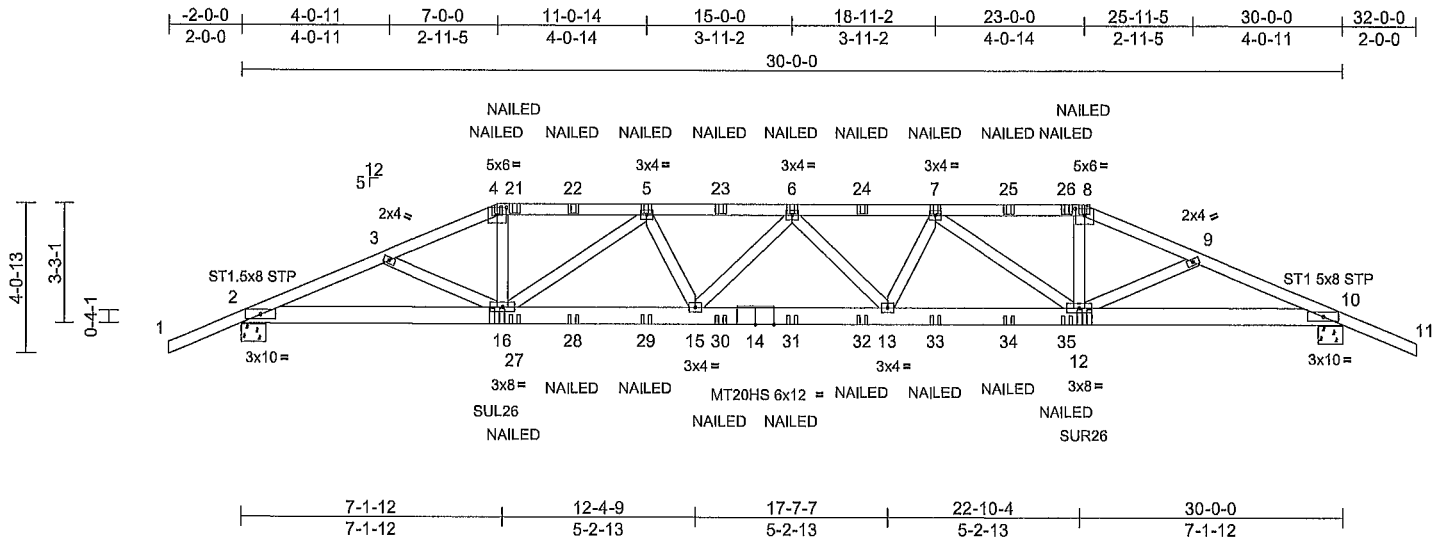
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	T01	Hip Girder	1	1	T40608595 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12.39.19 Page. 1
ID RcYLxxhEsEDaBl1ok0DB2WzZ?zY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoI7J4zJC?f



Scale = 1 59.5

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

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 77	Vert(LL)	-0 34	13-15	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0.47	Vert(CT)	-0 69	13-15	>518	180	MT20HS	187/143
BCLL	0 0*	Rep Stress Incr	NO	WB	0 83	Horz(CT)	0 14	10	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 173 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-8 2x4 SP No 1
BOT CHORD 2x6 SP 2400F 2 0E or 2x6 SP M 26
WEBS 2x4 SP No 3

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-4-11 oc bracing

REACTIONS (size) 2=0-8-0, 10=0-8-0
Max Horiz 2=63 (LC 8)
Max Uplift 2=-682 (LC 8), 10=-707 (LC 9)
Max Grav 2=2455 (LC 1), 10=2470 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-5594/1513, 3-4=-5404/1444, 4-5=-5050/1373, 5-6=-6676/1815, 6-7=-6696/1848, 7-8=-5090/1438, 8-9=-5446/1513, 9-10=-5635/1581, 10-11=0/46
BOT CHORD 2-16=-1386/5127, 15-16=-1699/6444, 13-15=-1841/6890, 12-13=-1741/6471, 10-12=-1386/5164
WEBS 4-16=-346/1635, 8-12=-367/1639, 5-15=-78/586, 5-16=-1769/535, 6-15=-344/198, 6-13=-315/149, 7-13=-55/580, 7-12=-1753/506, 3-16=-177/175, 9-12=-174/176

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=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) Provide adequate drainage to prevent water ponding
5) All plates are MT20 plates unless otherwise indicated
6) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
7) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 707 lb uplift at joint 10 and 682 lb uplift at joint 2
9) Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) 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
10) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 23-0-0 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
11) Fill all nail holes where hanger is in contact with lumber
12) "NAILED" indicates 3-10d (0 148"x3") or 2-12d (0 148 'x3 25") toe-nails per NDS guidlines
13) 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, 4-8=-60, 8-11=-60, 2-10=-20
Concentrated Loads (lb)
Vert: 4=-58 (F), 8=-58 (F), 16=-256 (F), 12=-256 (F), 5=-116 (F), 6=-116 (F), 7=-116 (F) 21=-116 (F), 22=-116 (F), 23=-116 (F), 24=-116 (F), 25=-125 (F), 26=-125 (F), 27=-64 (F), 28=-64 (F), 29=-64 (F), 30=-64 (F), 31=-64 (F), 32=-64 (F), 33=-64 (F), 34=-73 (F), 35=-73 (F)

This item has been digitally signed and sealed by Velez, Joaquin, 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.

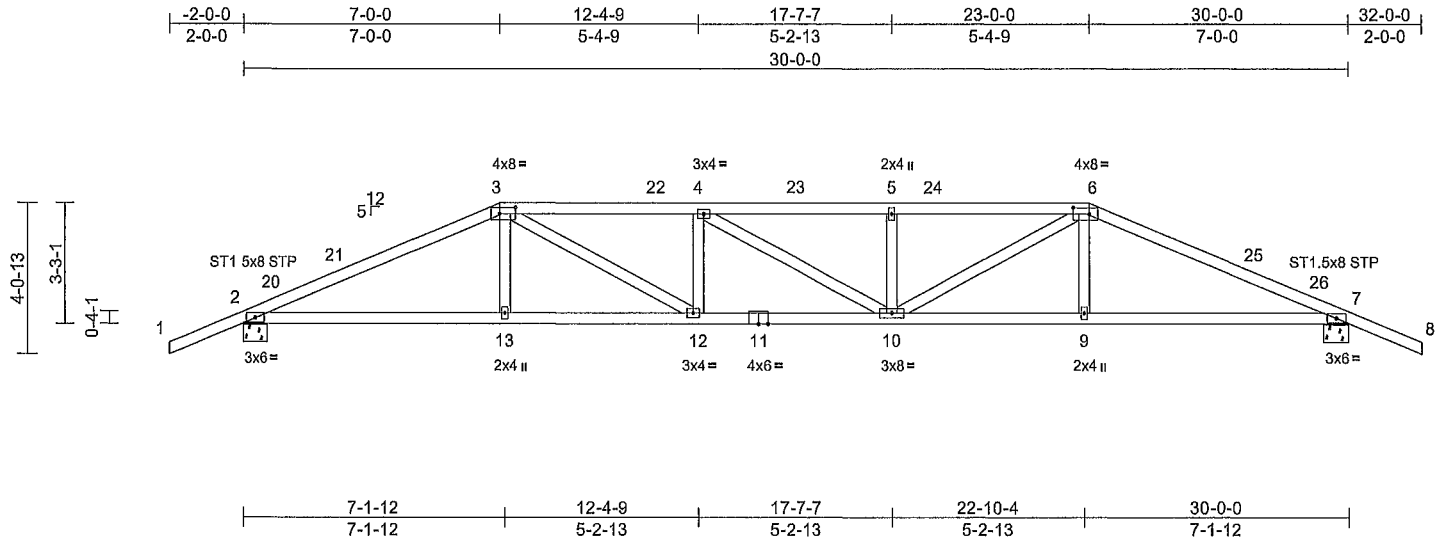
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	T01A	Hip	1	1	T40608596
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc Thu Mar 26 12:39:19 Page: 1
ID kVWrYyByCqNIcbgge8SpC9zZ?yv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f



Scale = 1.59.3

Plate Offsets (X, Y) [3 0-5-4,0-2-0], [6 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 84	Vert(LL)	-0 21	10-12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 76	Vert(CT)	-0.43	10-12	>832	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 36	Horz(CT)	0 11	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 139 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 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing

REACTIONS (size) 2=0-8-0, 7=0-8-0
Max Horiz 2=63 (LC 12)
Max Uplift 2=-351 (LC 8), 7=-351 (LC 9)
Max Grav 2=1320 (LC 1), 7=1320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2456/615, 3-4=-2954/833, 4-5=-2953/832, 5-6=-2953/832, 6-7=-2457/615, 7-8=0/46
BOT CHORD 2-13=-500/2198, 12-13=-499/2206, 10-12=-741/2954, 9-10=-497/2206, 7-9=-499/2199
WEBS 3-13=0/271, 6-9=0/271, 4-12=-362/167, 3-12=-277/956, 5-10=-337/166, 4-10=-117/118, 6-10=-276/955

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 23-0-0, Zone2 23-0-0 to 27-2-15, Zone1 27-2-15 to 32-0-0 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) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at joint 7

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

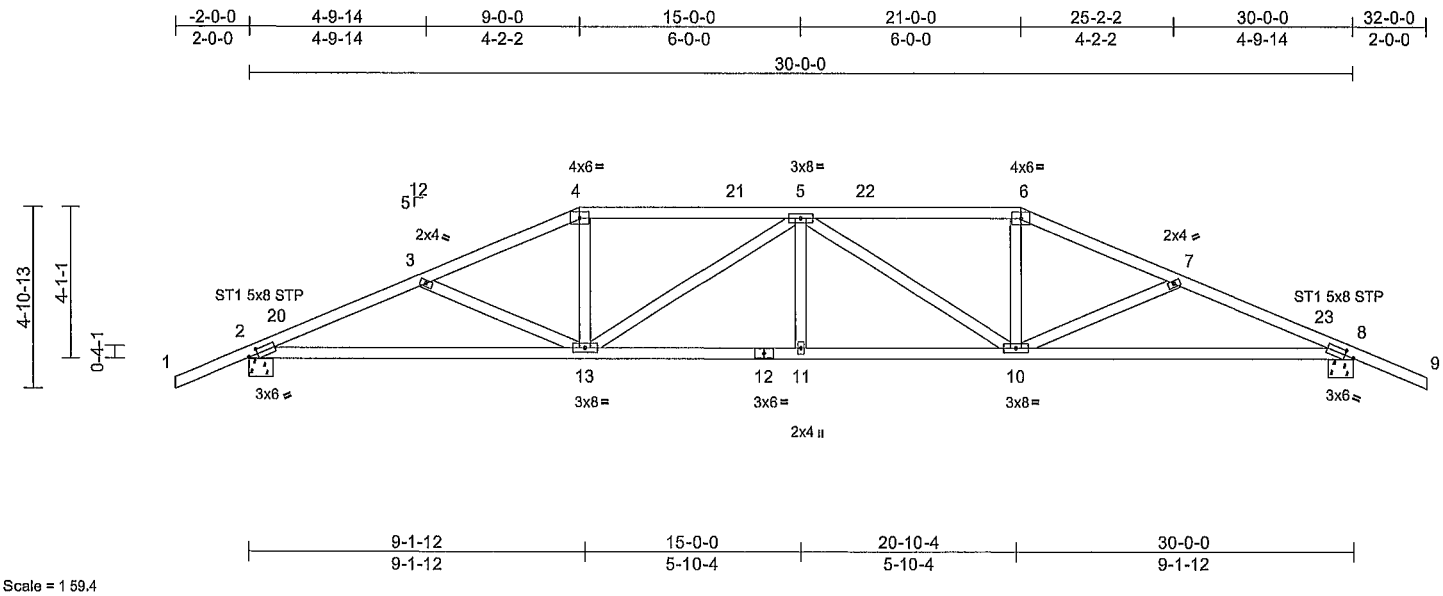
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	T02	Hip	2	1	T40608597 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries Inc. Thu Mar 26 12.39.20 Page: 1
ID:2l8U_2j_XYFtjzlu0biMJkzZ?wx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1 59.4

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

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	0.45	Vert(LL)	-0 16	10-19	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 85	Vert(CT)	-0 37	10-19	>966	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 51	Horz(CT)	0 11	8	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 147 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 3-5-3 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing

REACTIONS (size) 2=0-8-0, 8=0-8-0
Max Horiz 2=-77 (LC 17)
Max Uplift 2=-347 (LC 12), 8=-347 (LC 13)
Max Grav 2=1320 (LC 1), 8=1320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-2547/634, 3-4=-2217/535, 4-5=-2019/517, 5-6=-2019/517, 6-7=-2217/535, 7-8=-2547/634, 8-9=0/46
BOT CHORD 2-13=-583/2324, 11-13=-541/2401, 10-11=-541/2401, 8-10=-507/2324
WEBS 3-13=-358/188, 4-13=-89/558, 5-10=-555/189, 6-10=-88/558, 7-10=-358/189, 5-11=0/176, 5-13=-555/190

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 21-0-0, Zone2 21-0-0 to 25-4-6 Zone1 25-4-6 to 32-0-0 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) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 347 lb uplift at joint 2 and 347 lb uplift at joint 8

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

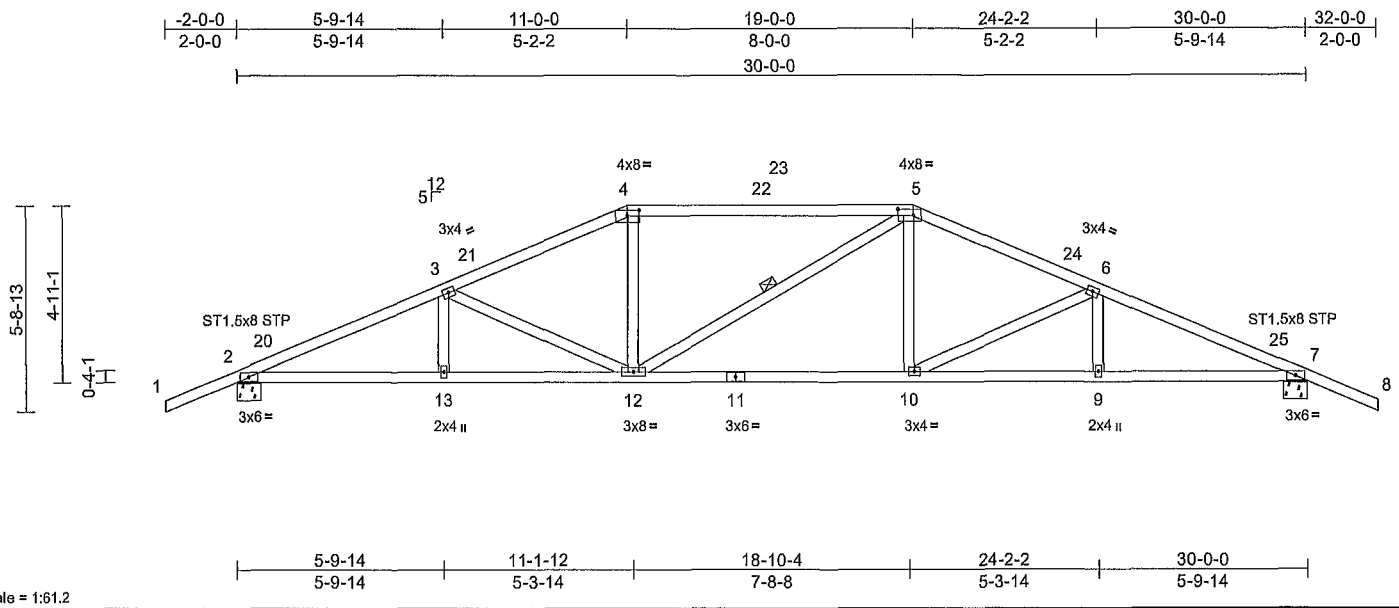
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	T03	Hip	2	1	T40608598
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39 20 ID SbL2BtyXqhn271qkBo327yzZ?wd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f



Scale = 1:61.2

Plate Offsets (X, Y). [4 0-4-0,0-1-13], [5 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	0.51	Vert(LL)	-0 13	10-12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 69	Vert(CT)	-0.33	10-12	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 34	Horz(CT)	0 10	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 147 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 *Except* 4-5 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31

BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No 3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins

BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing

WEBS 1 Row at midpt 5-12

REACTIONS (size) 2=0-8-0, 7=0-8-0
Max Horiz 2=91 (LC 12)
Max Uplift 2=-343 (LC 12), 7=-347 (LC 13)
Max Grav 2=1320 (LC 1), 7=1320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-2544/591, 3-4=-2033/468, 4-5=-1834/465, 5-6=-2032/479, 6-7=-2544/602, 7-8=0/46

BOT CHORD 2-13=-551/2296, 12-13=-551/2296, 10-12=-313/1833, 9-10=-470/2297, 7-9=-470/2297

WEBS 3-12=-525/221, 4-12=-43/446, 5-12=-158/160, 5-10=-51/446, 6-10=-526/220, 3-13=0/200, 6-9=0/201

NOTES

1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3 0psf, h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 32-0-0 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) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 2 and 347 lb uplift at joint 7

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

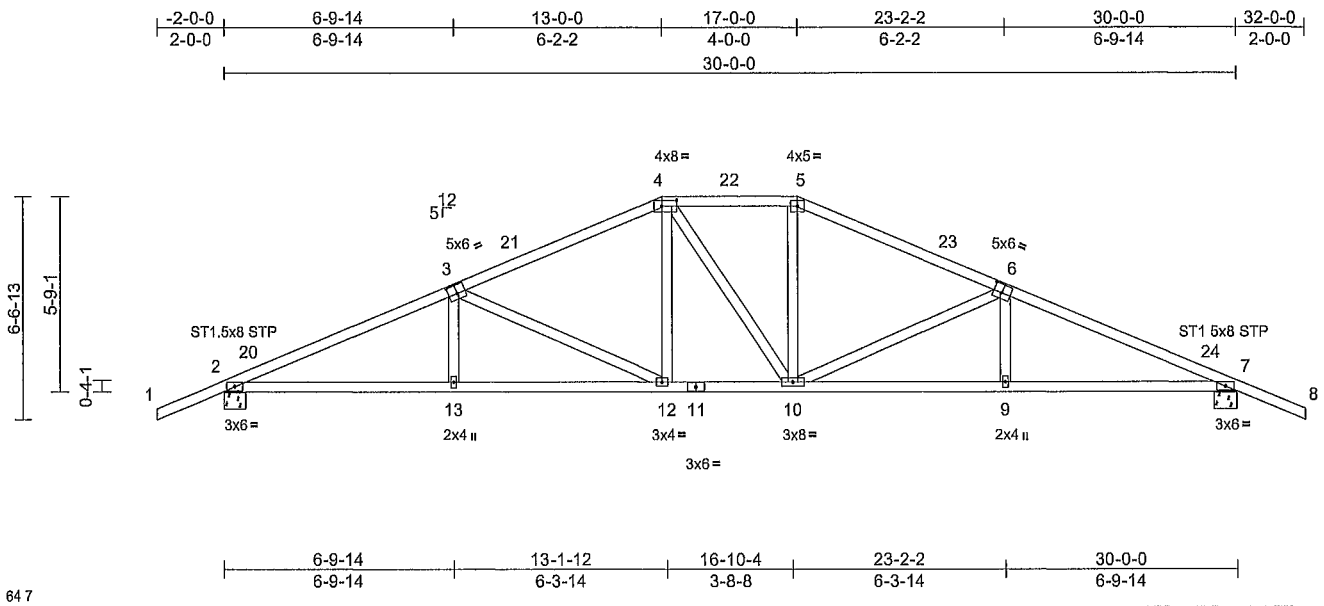
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	T04	Hip	2	1	T40608599 Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12 39 20 Page: 1
ID:WlH8vqLclWpVzyHu3WeYQizZ?w7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1 64 7

Plate Offsets (X, Y): [3 0-3-0 0-3-0], [4 0-5-4,0-2-0], [6 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	0.48	Vert(LL)	-0 13	10-12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 69	Vert(CT)	-0.28	12-13	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 66	Horz(CT)	0 10	7	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 151 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 3-2-12 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing

REACTIONS (size) 2=0-8-0, 7=0-8-0
Max Horiz 2=104 (LC 12)
Max Uplift 2=-343 (LC 12), 7=-343 (LC 13)
Max Grav 2=1320 (LC 1), 7=1320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-4=-2508/577, 4-5=-1619/422, 5-7=-2508/577, 7-8=0/46
BOT CHORD 2-13=-544/2257, 12-13=-544/2255, 10-12=-291/1619, 9-10=-440/2254, 7-9=-440/2257
WEBS 3-13=0/282, 3-12=-715/282, 4-12=-87/417, 4-10=-145/147, 5-10=-81/417, 6-10=-714/282, 6-9=0/281

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf, BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone3 13-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 32-0-0 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) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 2 and 343 lb uplift at joint 7

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

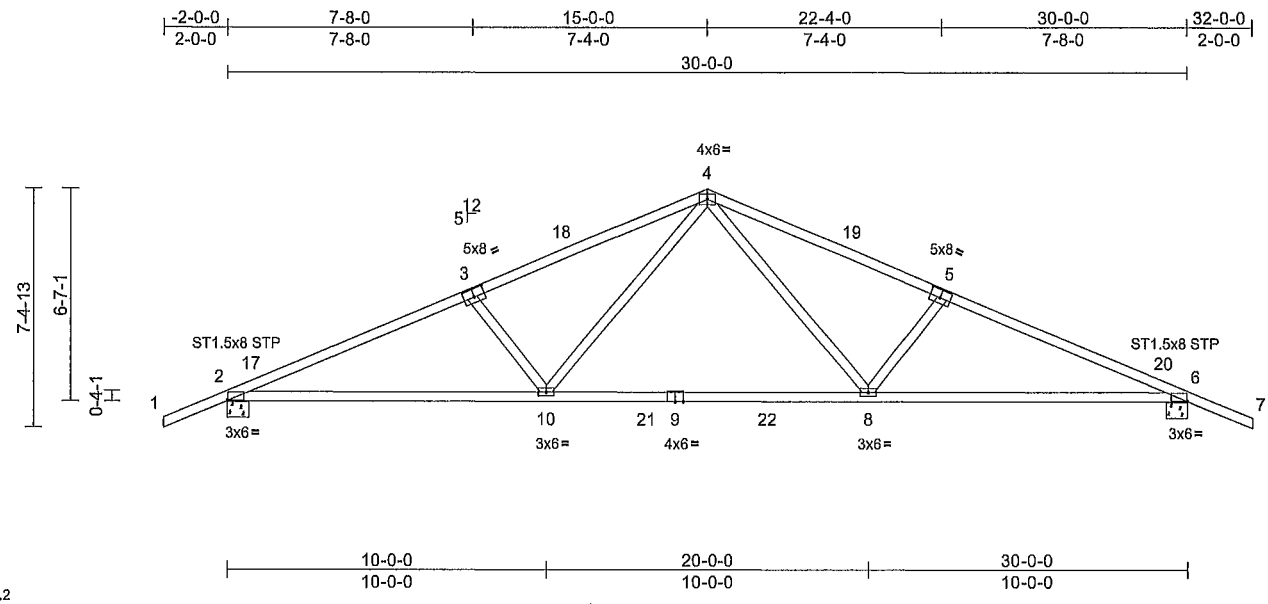
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	T05	Common	4	1	T40608600
					Job Reference (optional)

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

Run. 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12 39 21 Page: 1
ID ?62wfg?Y1c33v0FDbnbgTbzZ?u_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1 68.2

Plate Offsets (X, Y) [2 0-0-2,Edge], [3 0-4-0,0-3-0] [5 0-4-0,0-3-0], [6 0-0-2,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 77	Vert(LL)	-0.32	8-10	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 87	Vert(CT)	-0.52	8-10	>696	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 36	Horz(CT)	0 08	6	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 134 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
BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing

REACTIONS (size) 2=0-8-0, 6=0-8-0
Max Horiz 2=118 (LC 16)
Max Uplift 2=-340 (LC 12), 6=-340 (LC 13)
Max Grav 2=1403 (LC 2), 6=1403 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-4=-2615/566, 4-6=-2615/567, 6-7=0/46
BOT CHORD 2-10=-541/2374, 8-10=-237/1555, 6-8=-423/2374
WEBS 4-8=-224/945 5-8=-483/282, 4-10=-224/945, 3-10=-483/282

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft, Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 32-0-0 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, with BCDL = 10 0psf
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 340 lb uplift at joint 2 and 340 lb uplift at joint 6

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

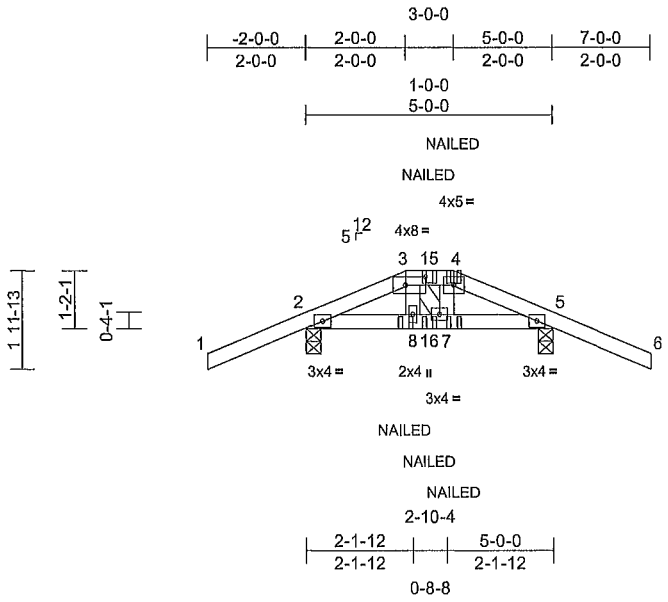
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	T06	Hip Girder	1	1	T40608601 Job Reference (optional)

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

Run. 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries Inc. Thu Mar 26 12.39:21 Page: 1
ID:ytw6bzGH6UpYVws4BA4_78zZ0_5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1.44.4

Plate Offsets (X, Y) [3 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 30	Vert(LL)	-0 01	7-8	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 10	Vert(CT)	-0 01	7-8	>999	180		
BCLL	0 0*	Rep Stress Incr	NO	WB	0 04	Horz(CT)	0 00	5	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 25 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 5-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 5=0-3-8
Max Horiz 2=-28 (LC 13)
Max Uplift 2=-154 (LC 4), 5=-152 (LC 5)
Max Grav 2=280 (LC 18), 5=285 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-378/371, 3-4=-399/419, 4-5=-429/451, 5-6=0/46
BOT CHORD 2-8=-337/386, 7-8=-359/402, 5-7=-410/447
WEBS 3-8=-145/124, 3-7=-97/81, 4-7=-60/62

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=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) Provide adequate drainage to prevent water ponding
5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
6) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2 and 152 lb uplift at joint 5
8) "NAILED" indicates 3-10d (0 148"x3") or 3-12d (0 148"x3.25") toe-nails per NDS guidlines
9) In the LOAD CASE(S) section loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced) Lumber Increase=1 25
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 9-12=-20
Concentrated Loads (lb)
Vert: 4=45 (B), 8=49 (B), 7=49 (B) 16=12 (B)

This item has been digitally signed and sealed by Velez, Joaquin, 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.

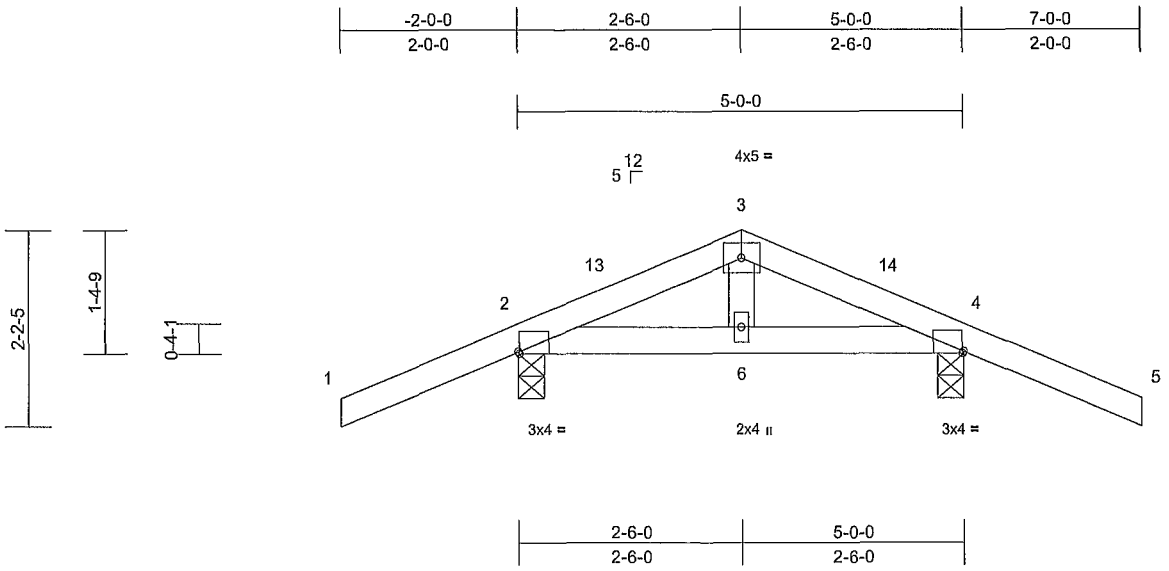
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	T40608602
5334505	T07	Common	1	1	Job Reference (optional)

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

Run. 8.83 S Mar 11 2026 Print: 8 830 S Mar 11 2026 MiTek Industries Inc. Thu Mar 26 12 39 21 Page: 1
ID:6Iq?DcLYYdn5wUCWNHkIAczZ00a-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoI7J4zJC?f



Scale = 1.24.6

Plate Offsets (X, Y) [2 0-0-2,Edge], [4 0-0-2,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 38	Vert(LL)	0 00	6-12	>999	240	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 11	Vert(CT)	0 00	6-12	>999	180		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 03	Horz(CT)	0 00	4	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight. 23 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 5-0-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS (size) 2=0-3-8, 4=0-3-8
Max Horiz 2=31 (LC 12)
Max Uplift 2=-152 (LC 8), 4=-152 (LC 9)
Max Grav 2=320 (LC 1) 4=320 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-171/70, 3-4=-174/62, 4-5=0/46
BOT CHORD 2-6=-67/251, 4-6=-67/252
WEBS 3-6=-20/85

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-6-0, Zone3 2-6-0 to 7-0-0 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
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2 and 152 lb uplift at joint 4

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

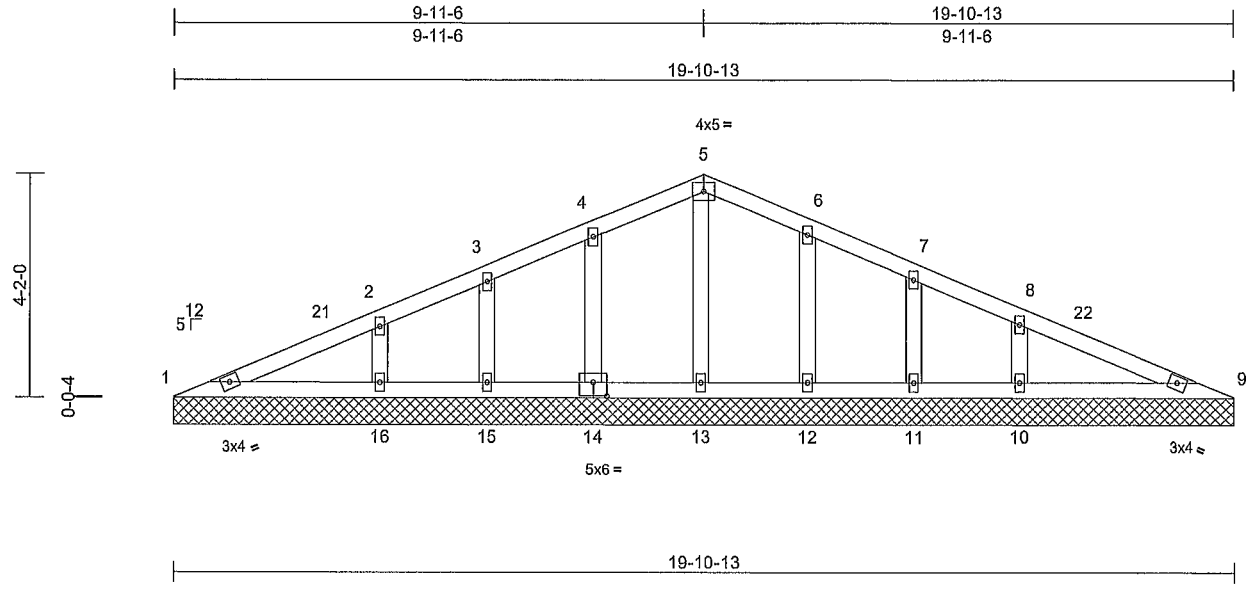
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

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

Job	Truss	Truss Type	Qty	Ply	
5334505	V01	Valley	1	1	T40608603
					Job Reference (optional)

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

Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39:21 Page: 1
ID siCv1O0QGRQ4DMt2t0sbdpzZ0A2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1.41

Plate Offsets (X, Y): [14 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 14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 14	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 05	Horiz(TL)	0 00	10	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 82 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
OTHERS 2x4 SP No 3

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

REACTIONS (size) 1=19-10-13, 9=19-10-13, 10=19-10-13, 11=19-10-13, 12=19-10-13, 13=19-10-13, 14=19-10-13, 15=19-10-13, 16=19-10-13
Max Horiz 1=67 (LC 12)
Max Uplift 1=-18 (LC 13), 9=-24 (LC 13), 10=-113 (LC 13), 11=-41 (LC 13) 12=-70 (LC 13), 14=-72 (LC 12) 15=-41 (LC 12), 16=-111 (LC 12)
Max Grav 1=109 (LC 25), 9=112 (LC 26), 10=314 (LC 26), 11=95 (LC 1), 12=185 (LC 26), 13=207 (LC 1), 14=188 (LC 25), 15=99 (LC 1), 16=306 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-165/132, 2-3=-31/110, 3-4=-1/126, 4-5=-10/129 5-6=-11/122, 6-7=0/113, 7-8=-9/100, 8-9=-172/131
BOT CHORD 1-16=-82/146, 15-16=-82/75, 13-15=-82/75, 12-13=-80/75, 11-12=-80/75 10-11=-80/75, 9-10=-80/152
WEBS 5-13=-171/7, 4-14=-140/82, 3-15=-88/62, 2-16=-195/103, 6-12=-137/79, 7-11=-87/62, 8-10=-201/106

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3 0psf· h=18ft, Cat II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 10-0-0, Zone2 10-0-0 to 13-11-6, Zone1 13-11-6 to 19-11-6 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
5) All plates are 2x4 (||) MT20 unless otherwise indicated
6) Gable requires continuous bottom chord bearing
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
9) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 24 lb uplift at joint 9, 72 lb uplift at joint 14, 41 lb uplift at joint 15, 111 lb uplift at joint 16, 70 lb uplift at joint 12, 41 lb uplift at joint 11 and 113 lb uplift at joint 10

LOAD CASE(S) Standard

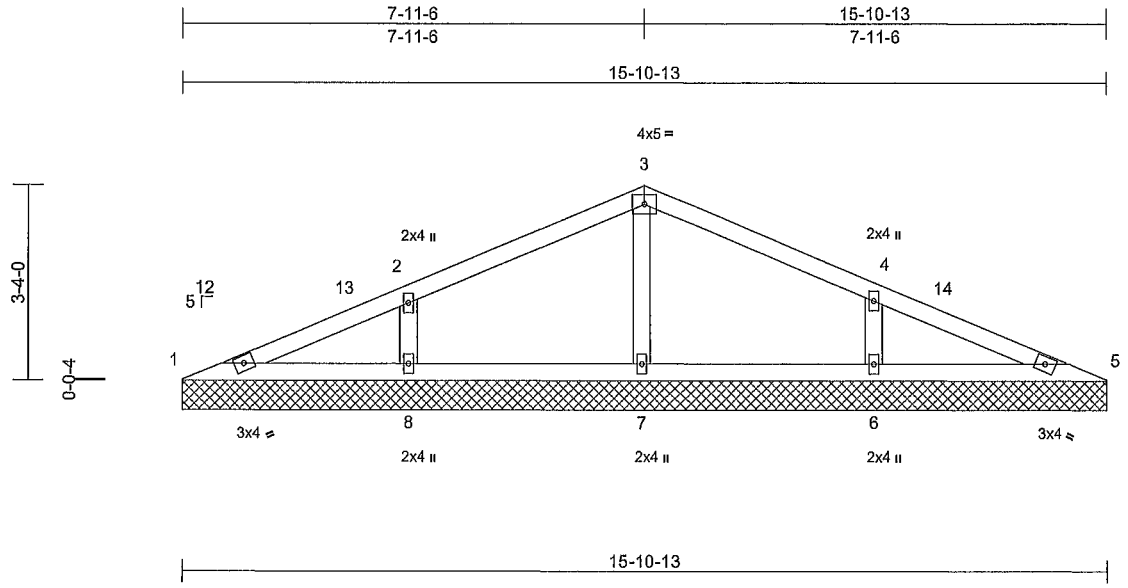
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	V02	Valley	1	1	T40608604
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City FL - 32055 Run 8.83 S Mar 11 2026 Print 8 830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39:22 Page 1
ID.Sv_mRFNMO2ISJB58hUIxxkzZ01q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1 37.6

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 21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 12	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 07	Horiz(TL)	0 00	6	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight 54 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No 3

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

REACTIONS (size) 1=15-10-13, 5=15-10-13, 6=15-10-13, 7=15-10-13, 8=15-10-13
Max Horiz 1=-53 (LC 13)
Max Uplift 1=-16 (LC 13), 5=-26 (LC 13) 6=-143 (LC 13), 7=-37 (LC 12) 8=-144 (LC 12)
Max Grav 1=100 (LC 25), 5=105 (LC 26), 6=372 (LC 26), 7=346 (LC 1), 8=370 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-146/133, 2-3=0/130, 3-4=-2/120, 4-5=-157/129
BOT CHORD 1-8=-78/128, 7-8=-78/59, 6-7=-74/58 5-6=-74/138
WEBS 3-7=-277/74, 2-8=-268/155, 4-6=-266/153

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 8-0-0, Zone2 8-0-0 to 11-11-6, Zone1 11-11-6 to 15-11-6 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
8) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 26 lb uplift at joint 5, 37 lb uplift at joint 7, 144 lb uplift at joint 8 and 143 lb uplift at joint 6

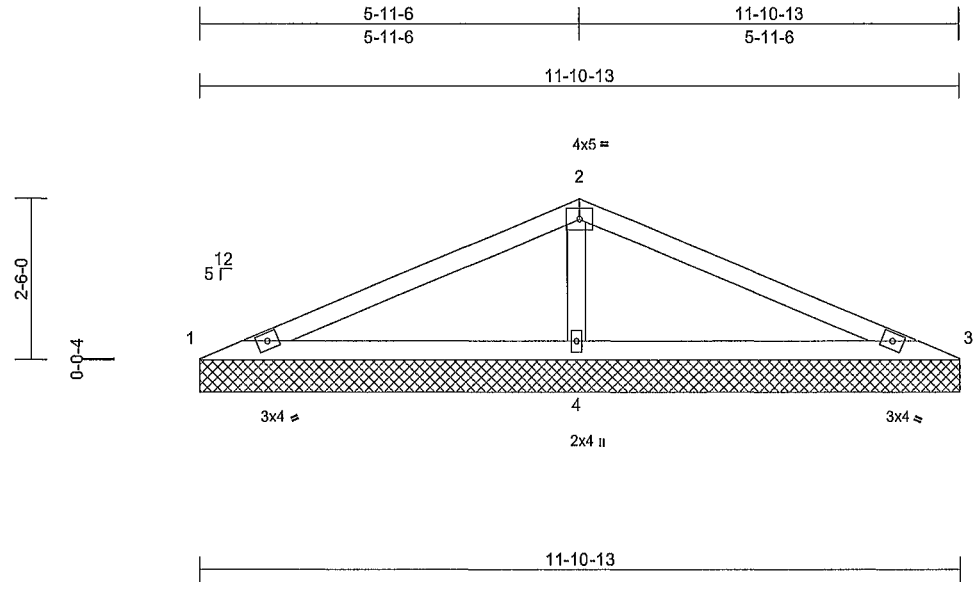
LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

Job	Truss	Truss Type	Qty	Ply	
5334505	V03	Valley	1	1	T40608605
					Job Reference (optional)

Builders FirstSource (Lake City FL) Lake City FL - 32055, Run 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39 22 ID.SAWB?3a1OGr2souPBY6w7KzZ01Z-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7J4zJC?f Page: 1



Scale = 1 34.2

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 37	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 34	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0 *	Rep Stress Incr	YES	WB	0 13	Horiz(TL)	0 00	4	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MS							Weight. 37 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No 2
BOT CHORD 2x4 SP No 2
OTHERS 2x4 SP No 3

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

REACTIONS (size) 1=11-10-13, 3=11-10-13, 4=11-10-13
Max Horiz 1=39 (LC 12)
Max Uplift 1=-26 (LC 26), 3=-30 (LC 13), 4=-187 (LC 12)
Max Grav 1=92 (LC 25), 3=98 (LC 26), 4=857 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-255/511, 2-3=-245/496
BOT CHORD 1-4=-417/303, 3-4=-402/294
WEBS 2-4=-654/417

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=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
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
8) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 1, 30 lb uplift at joint 3 and 187 lb uplift at joint 4

LOAD CASE(S) Standard

This item has been digitally signed and sealed by Velez, Joaquin, 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.

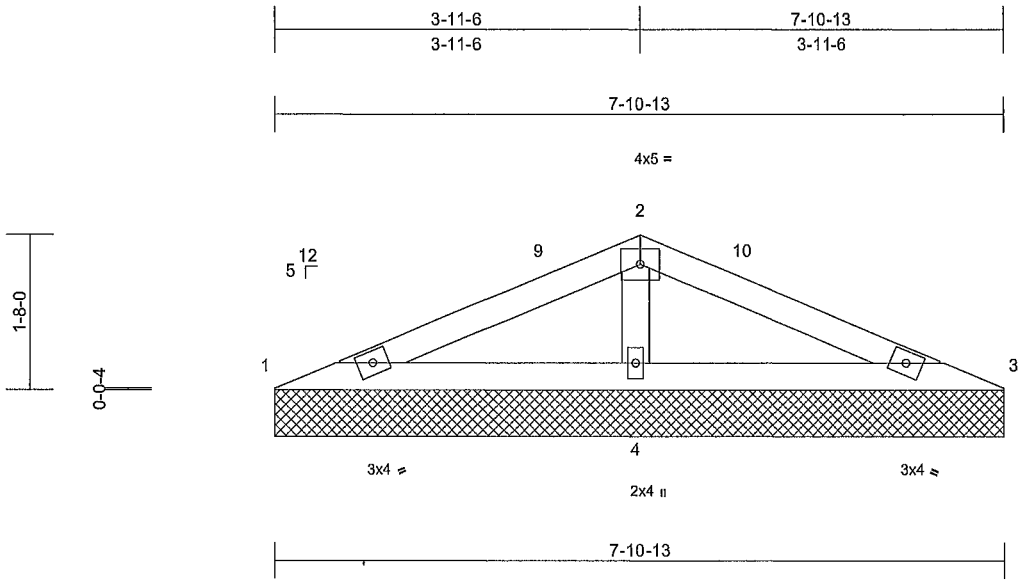
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5334505	V04	Valley	1	1	T40608606
					Job Reference (optional)

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

Run: 8.83 S Mar 11 2026 Print: 8.830 S Mar 11 2026 MiTek Industries, Inc. Thu Mar 26 12:39.22 Page: 1
ID:9qbYXgVe17y1Wkr3HaTHLrzZ01g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol7J4zJC?f



Scale = 1.23 7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20 0	Plate Grip DOL	1 25	TC	0 16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10 0	Lumber DOL	1 25	BC	0 17	Vert(TL)	n/a	-	n/a	999		
BCLL	0 0*	Rep Stress Incr	YES	WB	0 07	Horiz(TL)	0 00	4	n/a	n/a		
BCDL	10 0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 7-10-13 oc purlins
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS (size) 1=7-10-13, 3=7-10-13 4=7-10-13
Max Horiz 1=25 (LC 12)
Max Uplift 1=-23 (LC 12), 3=-29 (LC 13), 4=-107 (LC 12)
Max Grav 1=86 (LC 25), 3=91 (LC 26), 4=502 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-155/264, 2-3=-156/251
BOT CHORD 1-4=-222/221, 3-4=-209/212
WEBS 2-4=-336/246

NOTES
1) Unbalanced roof live loads have been considered for this design
2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, Enclosed, MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-10 to 3-0-10, Zone1 3-0-10 to 4-0-0, Zone3 4-0-0 to 7-11-6 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1 60
3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component
5) Gable requires continuous bottom chord bearing
6) Gable studs spaced at 4-0-0 oc.
7) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
8) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 29 lb uplift at joint 3 and 107 lb uplift at joint 4

LOAD CASE(S) Standard

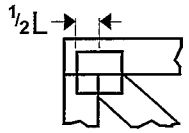
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
March 27,2026

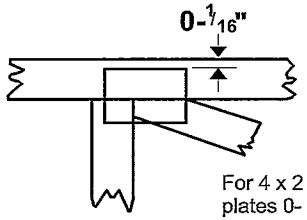
MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434 1200 / MiTek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss

This symbol indicates the required direction of slots in connector plates

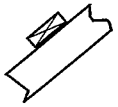
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

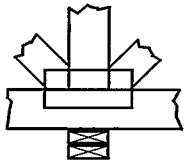
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots

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.

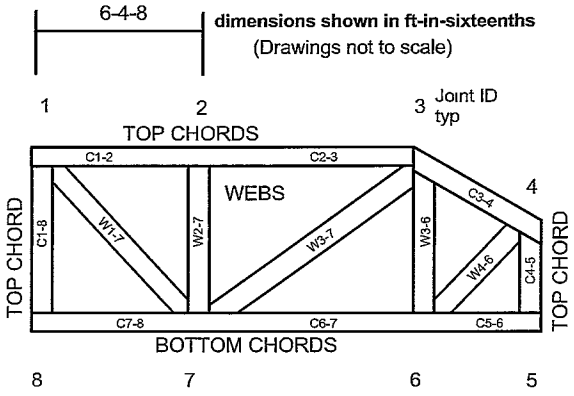
Industry Standards:

ANSI/TPI1 National Design Specification for Metal Plate Connected Wood Truss Construction

DSB-22: Design Standard for Bracing

BCSI. Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports

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

Design General Notes

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

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

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1 Additional stability bracing for truss system, e g diagonal or X-bracing, is always required See BCSI

2. Truss bracing must be designed by an engineer For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered

3 Never exceed the design loading shown and never stack materials on inadequately braced trusses.

4. Provide copies of this truss design to the building designer erection supervisor, property owner and all other interested parties.

5. Cut members to bear tightly against each other

6 Place plates on each face of truss at each joint and embed fully Knots and wane at joint locations are regulated by ANSI/TPI 1

7 Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1

8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

10. Camber is a non-structural consideration and is the responsibility of truss fabricator General practice is to camber for dead load deflection

11 Plate type, size, orientation and location dimensions indicated are minimum plating requirements.

12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified

13. Top chords must be sheathed or purlins provided at spacing indicated on design

14. Bottom chords require lateral bracing at 10 ft. spacing or less, if no ceiling is installed unless otherwise noted

15. Connections not shown are the responsibility of others.

16 Do not cut or alter truss member or plate without prior approval of an engineer

17 Install and load vertically unless indicated otherwise.

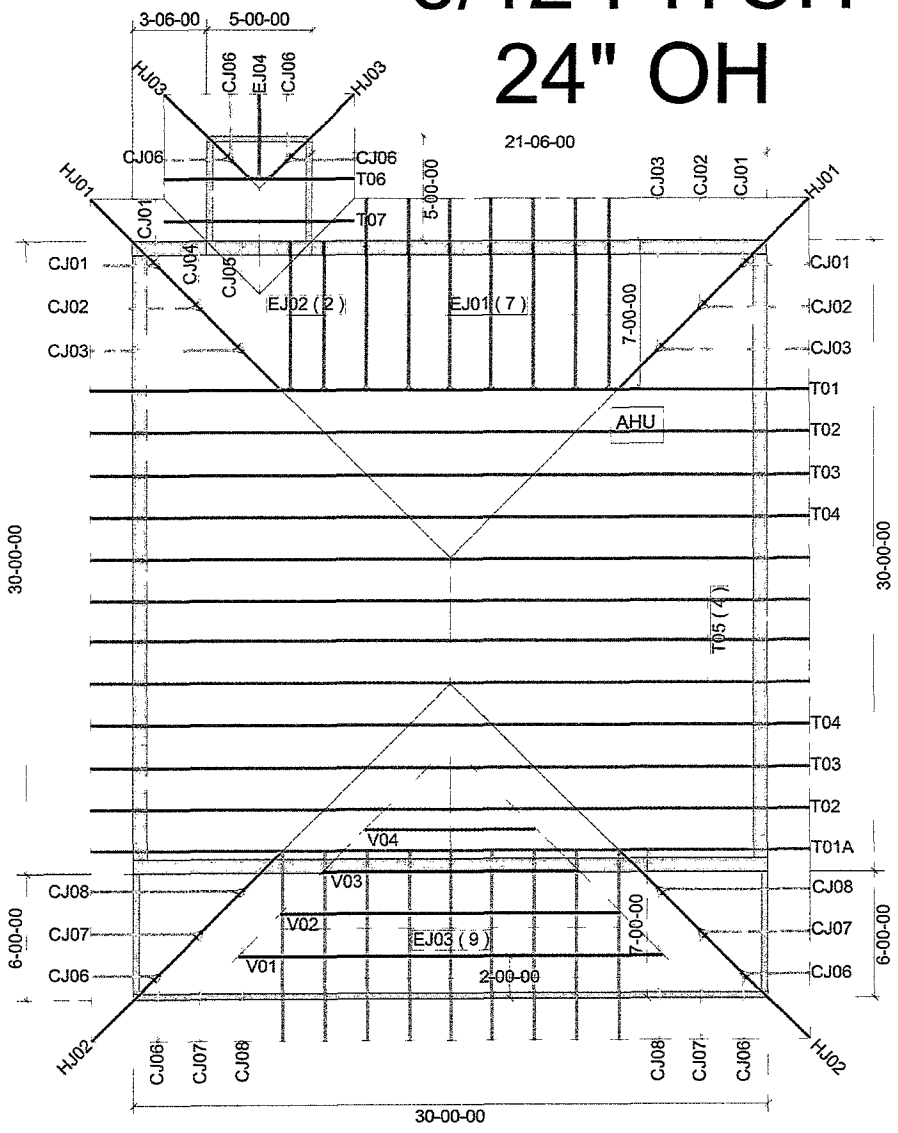
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.

19 Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.

20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21 The design does not take into account any dynamic or other loads other than those expressly stated.

5/12 PITCH
24" OH



WARNING
Backcharges Will Not Be Accepted Regardless of Fault Without Prior Notification By Customer Within 48 Hours And Investigation By Builders FirstSource. NO EXCEPTIONS.

IMPORTANT
This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan. SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date:

ROOF LOADING:	FLOOR LOADING:
TCLL: 20.0 lb/ft²	TCLL: 40.0 lb/ft²
TCDL: 10.0 lb/ft²	TCDL: 10.0 lb/ft²
BCLL: 0.0 lb/ft²	BCLL: 0.0 lb/ft²
BCDL: 10.0 lb/ft²	BCDL: 5.0 lb/ft²
DURATION: 1.25	DURATION: 1.00

5 PSF TCDL = 3 PSF SEAL USED TO RESIST UPLIFT
WIND_ASCE_HYBRID_22
ENCLOSED
EXPOSURE CATEGORY Select/Enter/Areas
OCCUPANCY CATEGORY
WIND LOAD 130 mph
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 5/12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 24"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	Yasmanis Reyes
MODEL:	CUSTOM
ELEV:	HIP
ADDRESS:	116 NW LAWTEY AVE.
LOT / BLOCK:	N/A
SUBDIVISION:	FORDS SEPTIC SERVICE
CITY:	Lake City
DRAWN BY:	Holloway, Kim
JOB #	5334505
DATE: 3/20/2026	SCALE: N.T.S.

REVISIONS:

Builders FirstSource