

**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: TCLL: 20 FLOOR LOADING: TCLL: 20  
TCDL: 10 TCDL: 10  
BCLL: 0 BCCL: 0  
BCDL: 10 BCDL: 10  
DURATION: 1.25 DURATION: 1.00

5 PSF TCCL + 5 PSF BCDL USED TO RESIST UPLIFT

ENCLOSED  
EXPOSURE CATEGORY C  
OCCUPANCY CATEGORY II  
WIND LOAD 130 MPH  
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 8/12-3/12  
CEILING PITCH: FLAT  
TOP CHORD SIZE: 2 X 4  
BOTTOM CHORD SIZE: 2 X 4  
OVERHANG LENGTH: 18" - 12"  
END CUT: PLUMB  
CANTILEVER: N/A  
TRUSS SPACING: 24"  
BUILDING CODE:FBC 2023

BEARING HEIGHT SCHEDULE	

BUILDER:	
Amira Builders	
MODEL:	CUSTOM
ELEV:	GABLE
ADDRESS:	316 SW CYPRESSWOOD GLEN
LOT / BLOCK:	N/A
SUBDIVISION:	CURASCO RES.
CITY:	Lake City
DRAWN BY:	Holloway, Kim
JOB # :	4894417
DATE:	10/22/2025
SCALE:	N.T.S.

REVISIONS:	



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.



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

RE: 4894417 - CURASCO RES.

MiTek, Inc.

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

**Site Information:**

Customer Info: AMIRA BLDRS. Project Name: Curasco Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: 316 SW Cypresswood Glen, 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 51 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	T38959534	CJ01	10/24/25	15	T38959548	T03	10/24/25
2	T38959535	CJ03	10/24/25	16	T38959549	T03G	10/24/25
3	T38959536	EJ01	10/24/25	17	T38959550	T04	10/24/25
4	T38959537	EJ02	10/24/25	18	T38959551	T05	10/24/25
5	T38959538	HJ08	10/24/25	19	T38959552	T06	10/24/25
6	T38959539	PB01	10/24/25	20	T38959553	T07	10/24/25
7	T38959540	PB01G	10/24/25	21	T38959554	T08	10/24/25
8	T38959541	PB02	10/24/25	22	T38959555	T09	10/24/25
9	T38959542	PB02G	10/24/25	23	T38959556	T09G	10/24/25
10	T38959543	PB03	10/24/25	24	T38959557	T10	10/24/25
11	T38959544	PB03G	10/24/25	25	T38959558	T11	10/24/25
12	T38959545	T01	10/24/25	26	T38959559	T11G	10/24/25
13	T38959546	T01G	10/24/25	27	T38959560	T12	10/24/25
14	T38959547	T02	10/24/25	28	T38959561	T12G	10/24/25

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

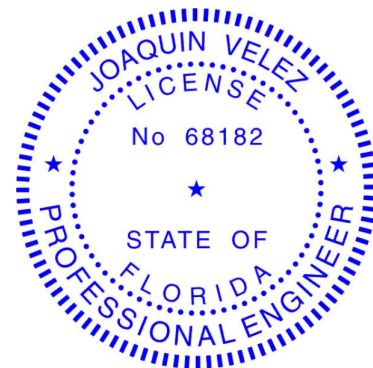
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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:

October 24,2025

Velez, Joaquin

1 of 2



RE: 4894417 - CURASCO RES.

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

**Site Information:**

Customer Info: AMIRA BLDRS. Project Name: Curasco Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: 316 SW Cypresswood Glen, N/A  
City: Lake City, State: FL

No.	Seal#	Truss Name	Date
29	T38959562	T13	10/24/25
30	T38959563	T14	10/24/25
31	T38959564	T15	10/24/25
32	T38959565	T16	10/24/25
33	T38959566	T16G	10/24/25
34	T38959567	T17	10/24/25
35	T38959568	T17G	10/24/25
36	T38959569	T18	10/24/25
37	T38959570	T19G	10/24/25
38	T38959571	T20	10/24/25
39	T38959572	T20G	10/24/25
40	T38959573	T21	10/24/25
41	T38959574	T22	10/24/25
42	T38959575	T22G	10/24/25
43	T38959576	T23	10/24/25
44	T38959577	T23G	10/24/25
45	T38959578	T24	10/24/25
46	T38959579	T25	10/24/25
47	T38959580	V01	10/24/25
48	T38959581	V02	10/24/25
49	T38959582	V03	10/24/25
50	T38959583	V04	10/24/25
51	T38959584	V05	10/24/25

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959534
4894417	CJ01	JACK-OPEN	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:43 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-9JryK8LLmhCfGif9xenLauxNO7093HQiY4ZzshyQXZ6

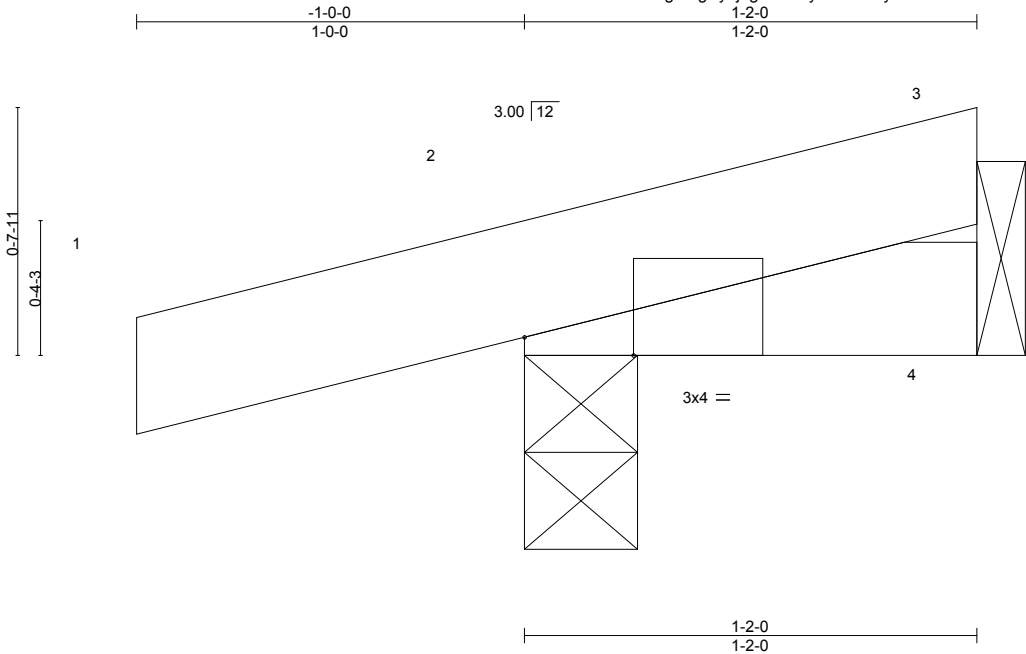


Plate Offsets (X,Y)--		[2:0-3-6,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11
TCDL 10.0	Lumber DOL	1.25	BC 0.01
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 5 >999 240
			Vert(CT) -0.00 5 >999 180
			Horz(CT) 0.00 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 5 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 1-2-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=0-3-8, 4=Mechanical  
Max Horz 2=31(LC 8)  
Max Uplift 2=-116(LC 8), 4=-17(LC 9)  
Max Grav 2=132(LC 1), 4=26(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 2=116.

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:

October 24,2025

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

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

**MiTek®**  
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com





Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959536
4894417	EJ01	Jack-Open	2	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:44 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-dVPKYUMzX?KWtspMVMIa66TTSXH7okgsnklXO7yQXZ5



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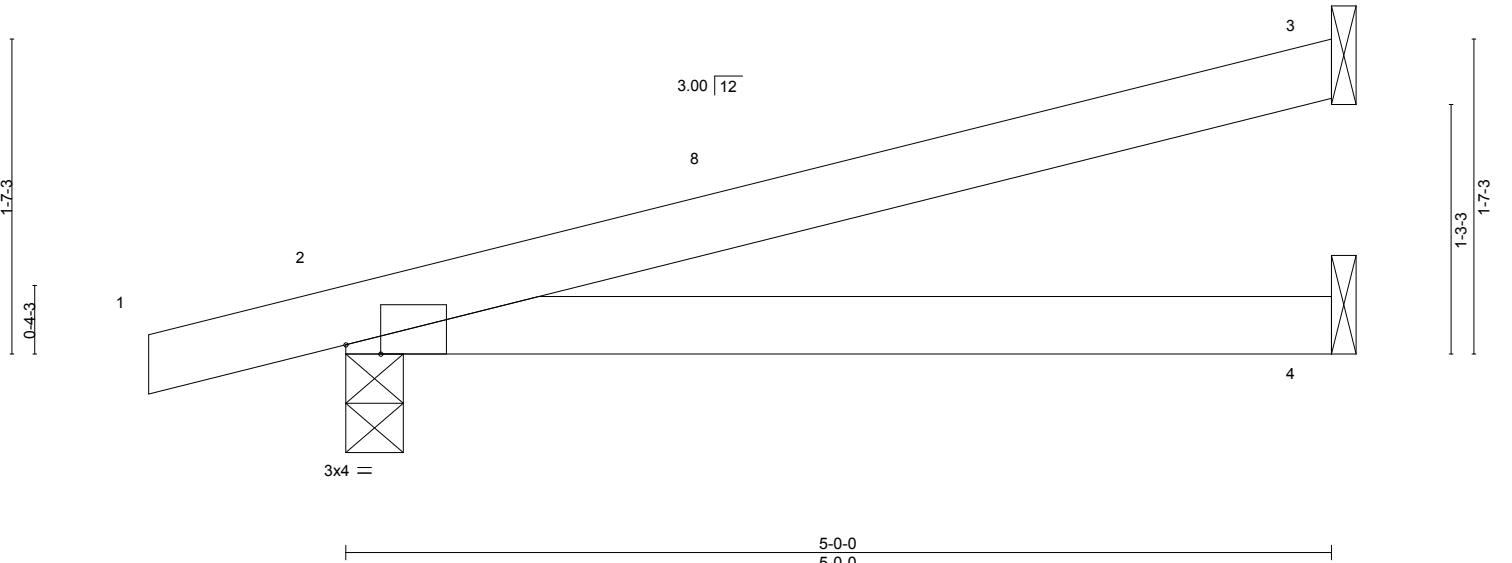


Plate Offsets (X,Y)--		[2:0-2-2,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>				<b>PLATES</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	in (loc)	l/defl	L/d		MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.35	0.08 4-7	>738	240			244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	0.07 4-7	>863	180			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP		-0.00 3	n/a	n/a		Weight: 17 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=78(LC 8)  
Max Uplift 3=94(LC 8), 2=-202(LC 8), 4=-54(LC 8)  
Max Grav 3=125(LC 1), 2=264(LC 1), 4=89(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=202.

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:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959537
4894417	EJ02	Jack-Closed	6	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:45 2025 Page 1  
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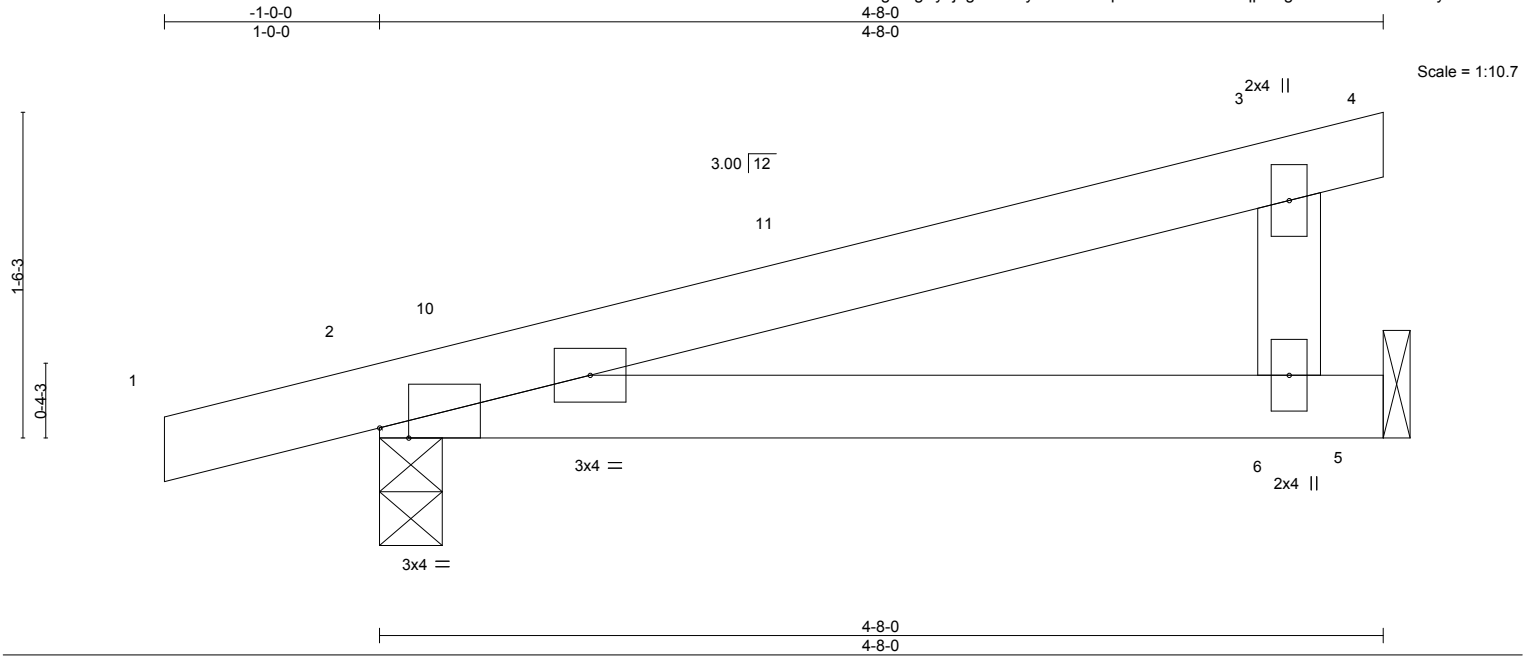


Plate Offsets (X,Y)--		[2:0-1-10,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31
TCDL 10.0	Lumber DOL	1.25	BC 0.33
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.07 6-9 >831 240
			Vert(CT) 0.06 6-9 >968 180
			Horz(CT) -0.00 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 17 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 5=Mechanical
	Max Horz 2=74(LC 8)
	Max Uplift 2=-193(LC 8), 5=-137(LC 8)
	Max Grav 2=251(LC 1), 5=181(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 4-8-0 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=193, 5=137.

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:  
October 24,2025

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959538
4894417	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:46 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-ZuX4zAOE2caE7AzkcL2BXZkaLvNGeA9E2neT0yQXZ3



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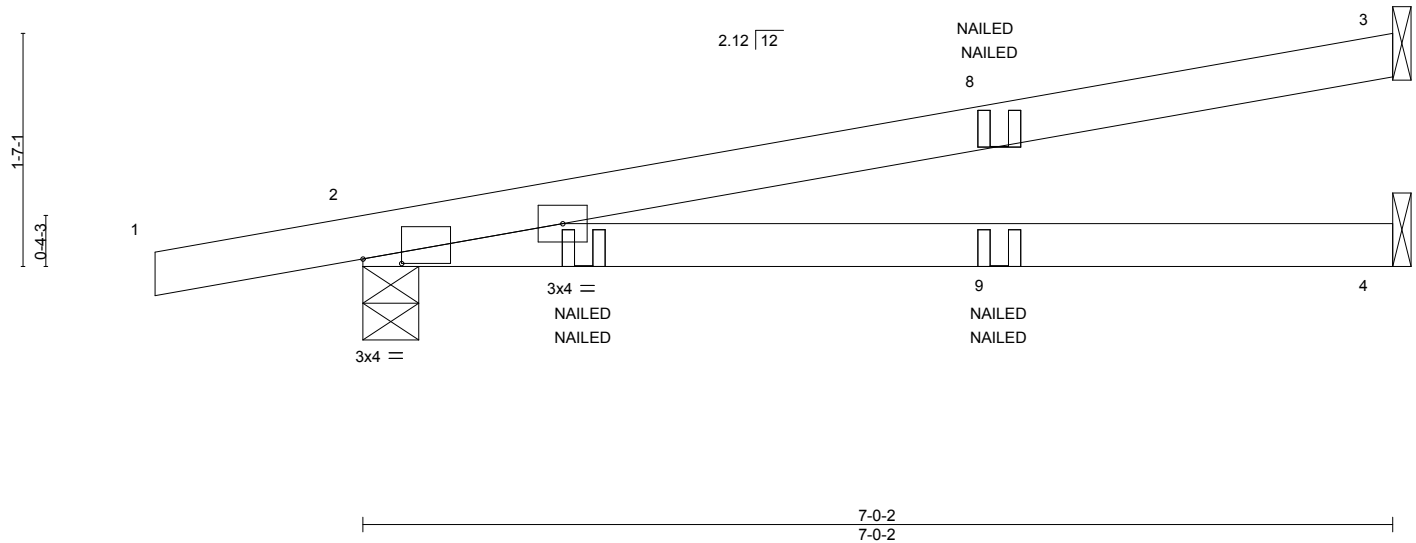


Plate Offsets (X,Y)--		[2:0-3-3,0-0-6]		7-0-2		7-0-2	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	0.24 4-7	>348	240
TCDL 10.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.25 4-7	>330	180
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01 2	n/a	n/a
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS				
				Weight: 23 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) 3=Mechanical, 2=0-4-9, 4=Mechanical  
Max Horz 2=78(LC 4)  
Max Uplift 3=131(LC 4), 2=301(LC 4), 4=83(LC 4)  
Max Grav 3=180(LC 1), 2=379(LC 1), 4=126(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 3=131, 2=301.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 (plf)  
Vert: 1-3=-60, 4-5=-20  
Concentrated Loads (lb)  
Vert: 7=1(F=1, B=1) 9=-22(F=-11, B=-11)

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

October 24,2025

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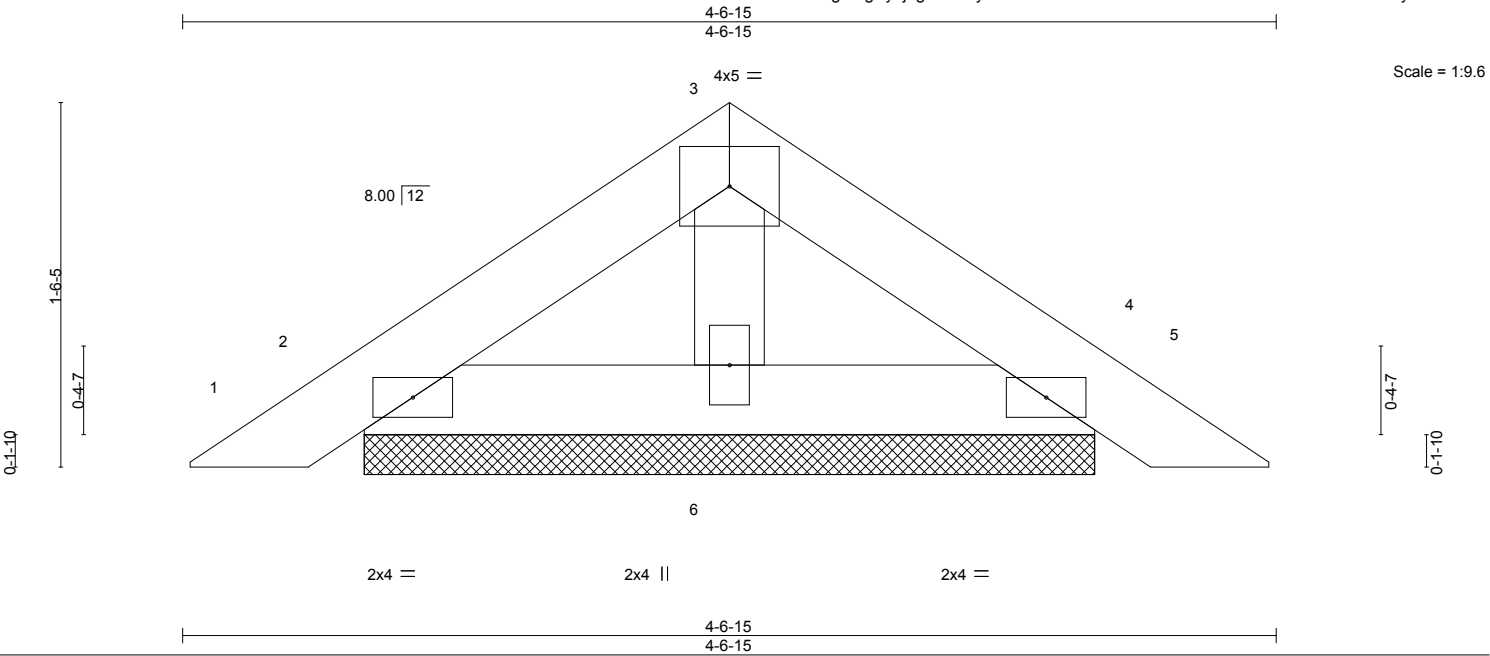
**MiTek®**

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



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959539
4894417	PB01	Piggyback	11	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:46 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-ZuX4zAOE2caE7AzkcL2BXZuGL2hGer9E2neT0yQXZ3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.07	Vert(LL)	0.00 4	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00 4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P					Weight: 14 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=3-0-11, 4=3-0-11, 6=3-0-11  
Max Horz 2=43(LC 11)  
Max Uplift 2=-51(LC 12), 4=-57(LC 13), 6=-17(LC 12)  
Max Grav 2=99(LC 1), 4=99(LC 1), 6=105(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) 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) Gable requires continuous bottom chord bearing.
  - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 4, 6.
  - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 24,2025

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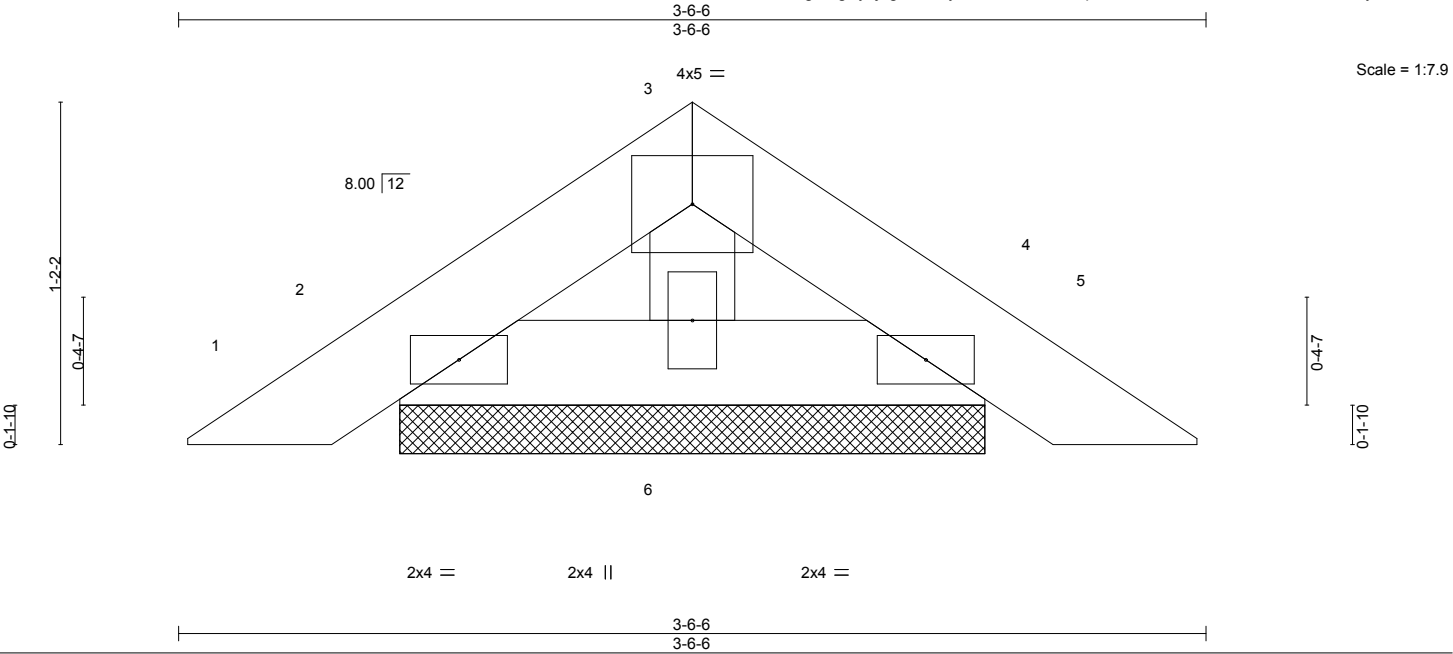
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959540
4894417	PB01G	PIGGYBACK	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:47 2025 Page 1  
ID:5r2frgbregYyojbgnsrYiDyVSr7-145SAWPspwi5kYxAUshkk54UI08?5HITiXB?SyQXZ2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.04	Vert(LL)	-0.00	4	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	4	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2023/TP12014		Matrix-P						
								Weight: 10 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 3-6-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 2=2-0-2, 4=2-0-2, 6=2-0-2  
Max Horz 2=32(LC 11)  
Max Uplift 2=42(LC 12), 4=46(LC 13), 6=77(LC 12)  
Max Grav 2=77(LC 1), 4=77(LC 1), 6=64(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) 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) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959541
4894417	PB02	Piggyback	7	1		

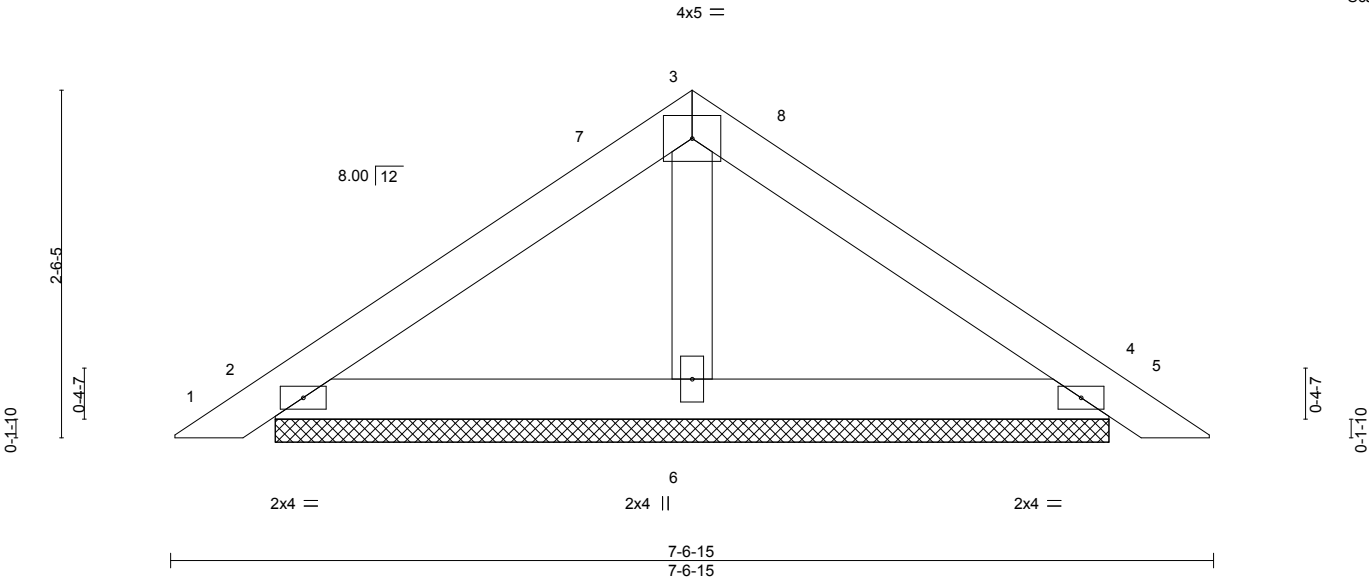
Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,

8.830 s Sep 3 2025
MiTek Industries, Inc.
Thu Oct 23 12:17:47 2025
Page 1
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3-9-8
3-9-8

7-6-15
3-9-8

Scale = 1:16.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	0.01	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-P						Weight: 25 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=6-0-11, 4=6-0-11, 6=6-0-11  
Max Horz 2=-75(LC 10)  
Max Uplift 2=-80(LC 12), 4=-90(LC 13), 6=-41(LC 12)  
Max Grav 2=162(LC 1), 4=162(LC 1), 6=218(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 3-9-8, Zone3 3-9-8 to 7-3-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 24,2025

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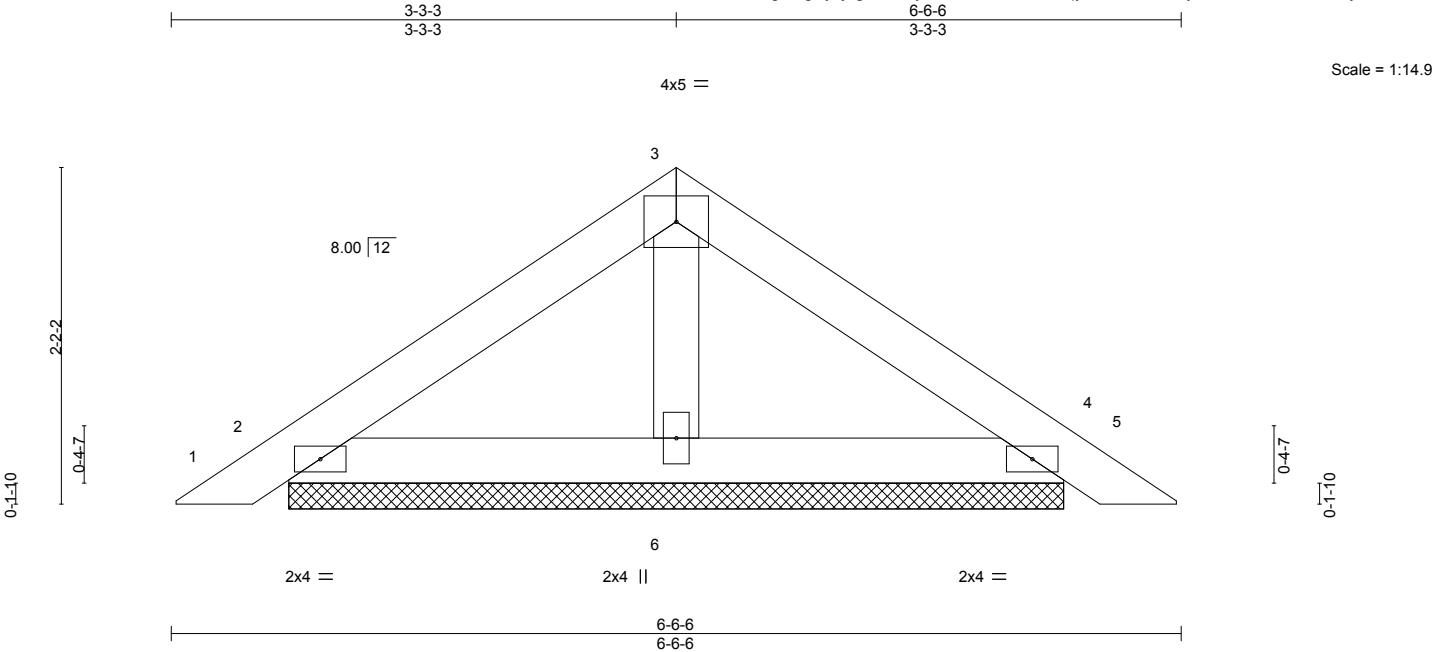
**MiTek®**

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959542
4894417	PB02G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:48 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-VGfrOsPUaEqyMT77kCNWHyeCf8kYkY0RiMHkXuyQXZ1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						Weight: 21 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=5-0-2, 4=5-0-2, 6=5-0-2  
Max Horz 2=-63(LC 10)  
Max Uplift 2=-70(LC 12), 4=-78(LC 13), 6=-32(LC 12)  
Max Grav 2=140(LC 1), 4=140(LC 1), 6=179(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 4, 6.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959543
4894417	PB03	GABLE	15	1		
Job Reference (optional)						

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:49 2025 Page 1

ID:5r2fgrbregYyobjgsnrYiDyVSr7-zTDDbCQ6LXyp\_djIvulp9BMBY1VT\_Rbw00I3KyQXZ0

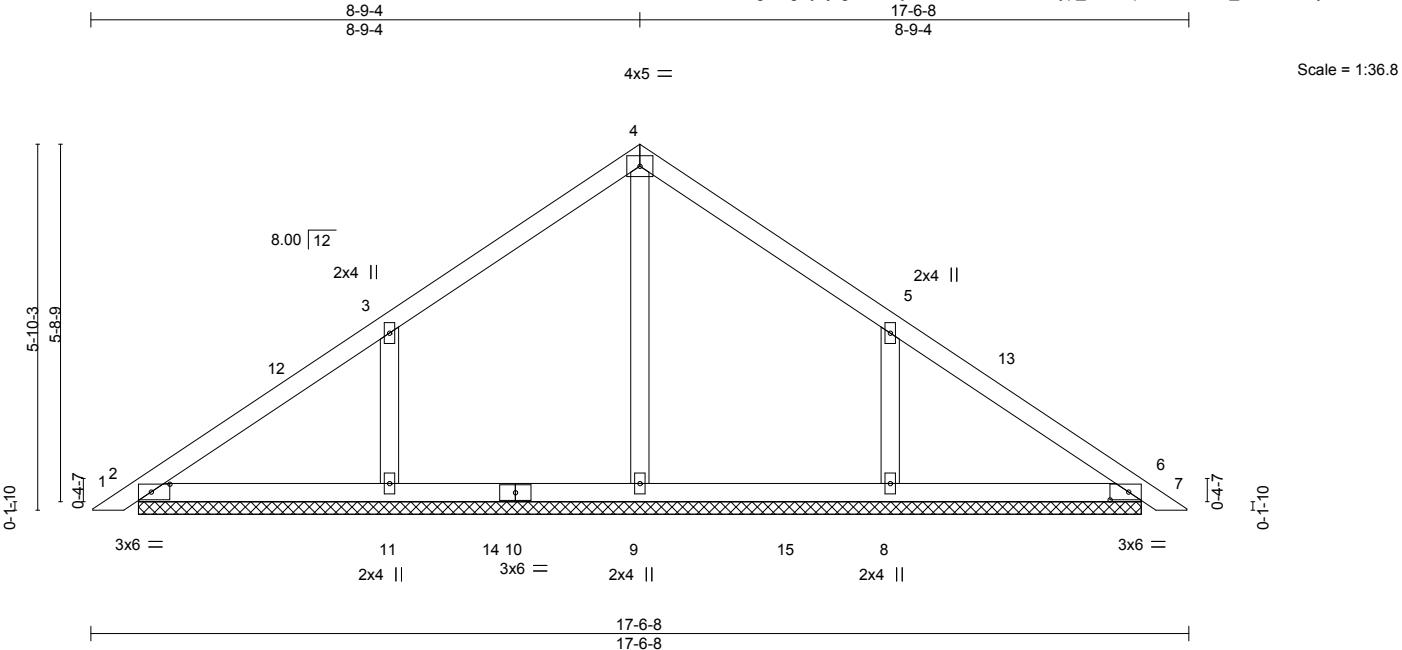


Plate Offsets (X,Y)--	[2:0-3-9,0-1-8], [6:0-3-9,0-1-8]	
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC	0.22
	BC	0.15
	WB	0.09
	Matrix-S	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	0.00 7 n/r 120
	Vert(CT)	0.01 7 n/r 120
	Horz(CT)	0.00 6 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 70 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 16-0-4.  
(lb) - Max Horz 2=180(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=279(LC 12), 8=279(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 9=350(LC 19), 11=502(LC 19), 8=501(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-11=-327/294, 5-8=-326/294

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 8-9-4, Zone2 8-9-4 to 12-9-4, Zone1 12-9-4 to 17-3-3 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 11=279, 8=279.
  - 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959544
4894417	PB03G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:50 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-Rfmb0YRk6r4fcnHVrcP?MNjaJyPZCSFk9gmrcnyQXZ?

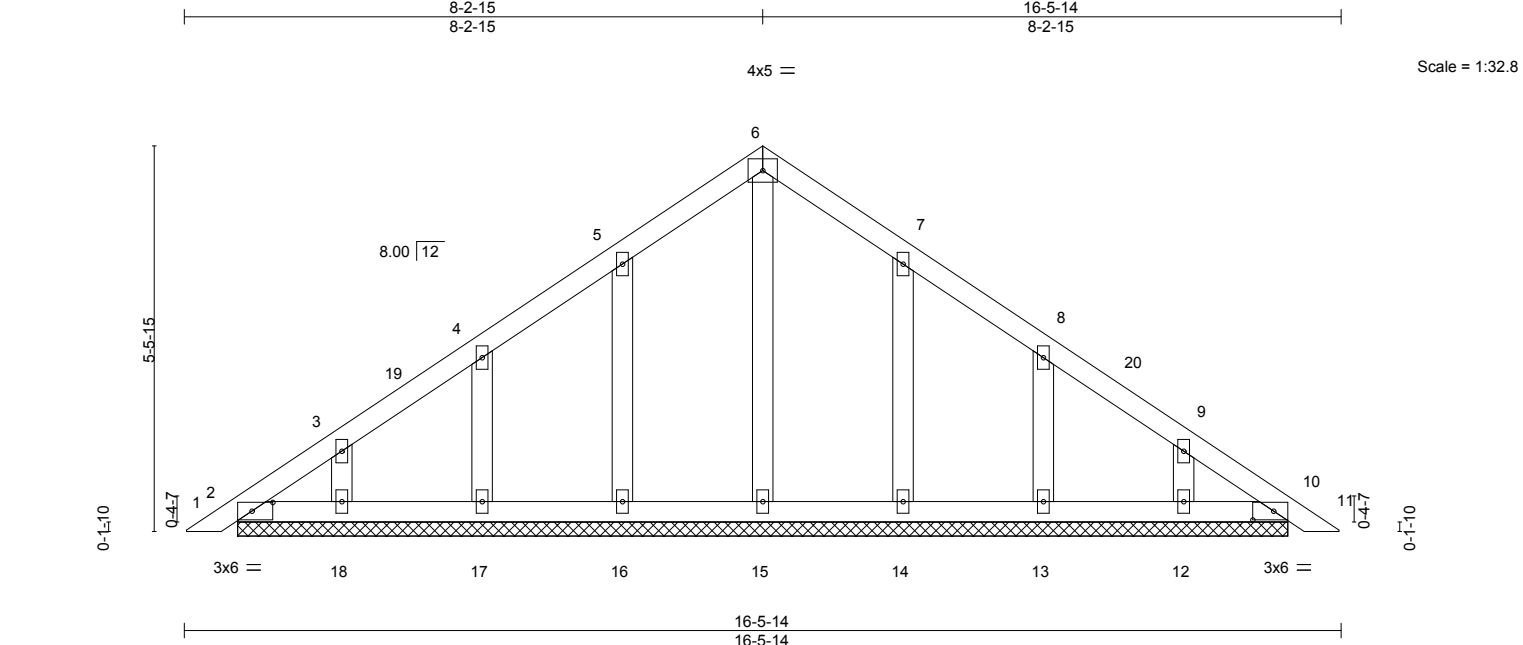


Plate Offsets (X,Y)-- [2:0-3-9,0-1-8], [10:0-3-9,0-1-8]											
LOADING (psf)		SPACING-- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	0.00 10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00 10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 14-11-10.  
(lb) - Max Horz 2=-169(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-120(LC 12), 17=-117(LC 12), 18=-111(LC 12), 14=-118(LC 13), 13=-118(LC 13), 12=-110(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-5 to 3-3-5, Zone1 3-3-5 to 8-2-15, Zone2 8-2-15 to 12-2-15, Zone1 12-2-15 to 16-2-9 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=120, 17=117, 18=111, 14=118, 13=118, 12=110.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 24,2025

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

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**MiTek®**

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959545
4894417	T01	Common	8	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:50 2025 Page 1  
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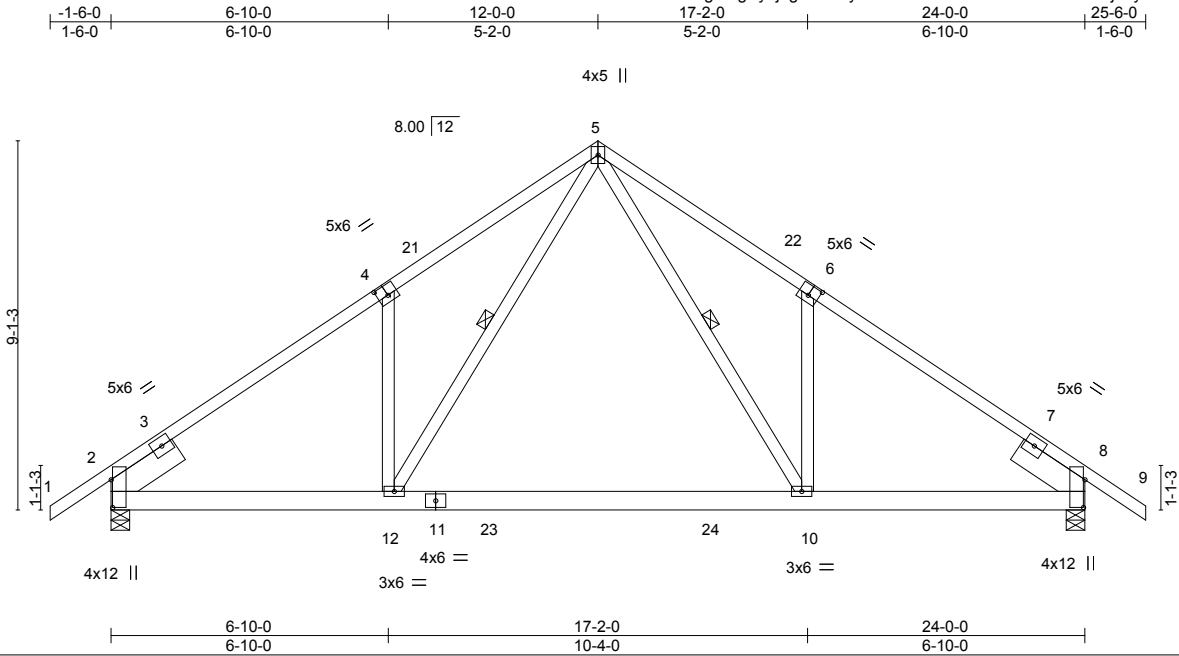


Plate Offsets (X,Y)--		[2:0-8-3,0-0-7], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-8-3,0-0-7]											
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.23	10-12	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.46	10-12	>632	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.04	8	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 160 lb	FT = 20%	

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-10, 5-12

**REACTIONS.** (size) 2=0-5-8, 8=0-5-8  
Max Horz 2=-287(LC 10)  
Max Uplift 2=-516(LC 12), 8=-516(LC 13)  
Max Grav 2=1525(LC 19), 8=1525(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1978/655, 4-5=-2011/871, 5-6=-2011/871, 6-8=-1979/655  
BOT CHORD 2-12=-552/1740, 10-12=-259/1126, 8-10=-410/1583  
WEBS 5-10=-561/1190, 6-10=-340/362, 5-12=-561/1190, 4-12=-340/362

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=516, 8=516.
  - 7) 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 (plf)  
Vert: 1-5=-60, 5-9=-60, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

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Date:

October 24,2025

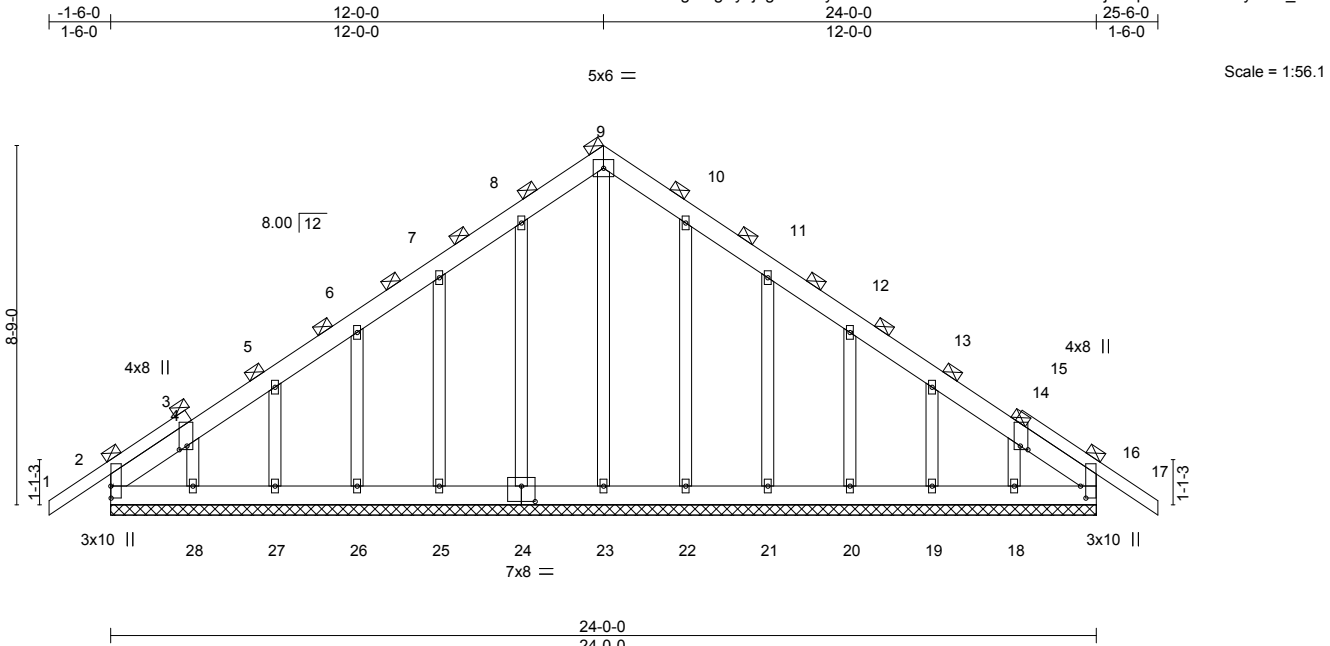
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959546
4894417	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:51 2025 Page 1  
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24-0-0									
Plate Offsets (X,Y)--		[2:0-3-8,0-0-1], [3:0-1-1,0-2-4], [15:0-1-1,0-2-4], [16:0-3-8,0-1-9], [24:0-4-0,0-4-8]							
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.00 17 n/r 120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01 17 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01 16 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S				Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\*  
1-4,14-17: 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 24-0-0.  
(lb) - Max Horz 2=-272(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 22 except 25=-124(LC 12), 26=-116(LC 12),  
27=-107(LC 12), 28=-146(LC 12), 21=-127(LC 13), 20=-115(LC 13), 19=-110(LC 13), 18=-135(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-257/196

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 2, 16, 24, 22 except (jt=lb) 25=124, 26=116, 27=107, 28=146, 21=127, 20=115, 19=110, 18=135.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182  
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Chesterfield, MO 63017  
Date:

October 24,2025

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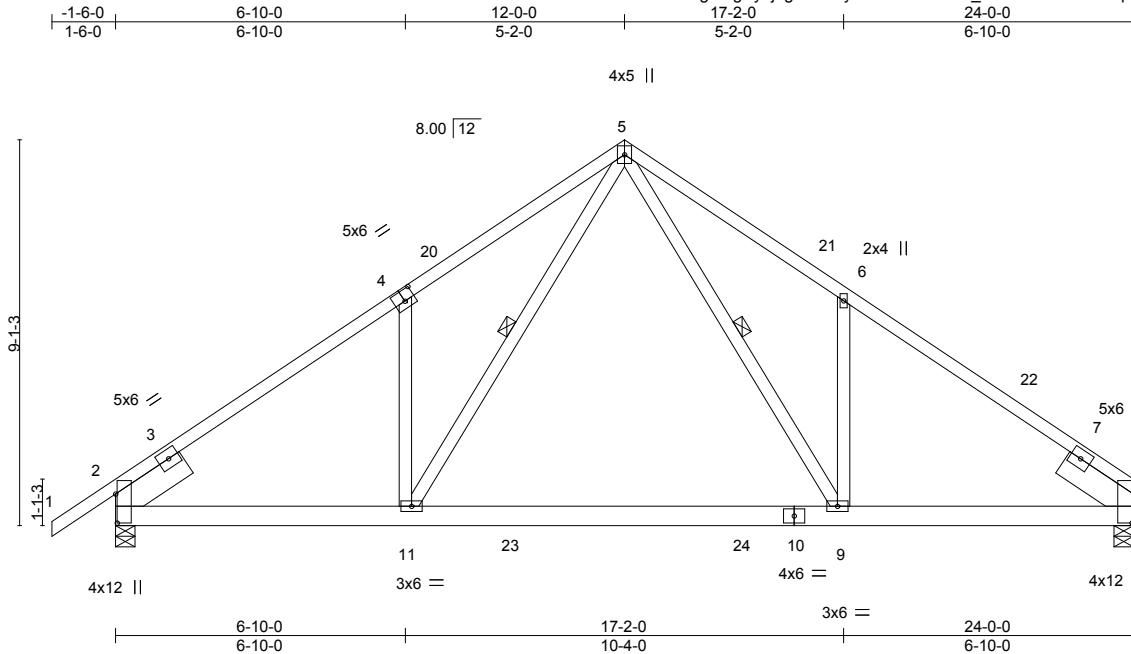
**MiTek®**

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Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959547
4894417	T02	Common	3	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:52 2025 Page 1  
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Scale = 1:54.3

Plate Offsets (X,Y)-- [2:0-8-3,0-0-7], [4:0-3-0,0-3-0], [8:0-8-3,0-0-7]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.23	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.45	9-11	>636	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 158 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 5-9, 5-11

#### REACTIONS.

(size) 8=0-5-8, 2=0-5-8  
Max Horz 2=276(LC 9)  
Max Uplift 8=463(LC 13), 2=-516(LC 12)  
Max Grav 8=1435(LC 20), 2=1526(LC 19)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1981/656, 4-5=-2013/872, 5-6=-2029/884, 6-8=-1990/676  
BOT CHORD 2-11=-573/1726, 9-11=-281/1113, 8-9=-432/1574  
WEBS 5-9=-575/1212, 6-9=-347/367, 5-11=-560/1188, 4-11=-340/362

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=463, 2=516.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-8=-60, 11-16=-20, 9-11=-80(F=-60), 9-12=-20

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Chesterfield, MO 63017  
Date:

October 24,2025

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**MiTek®**

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959548
4894417	T03	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:53 2025 Page 1  
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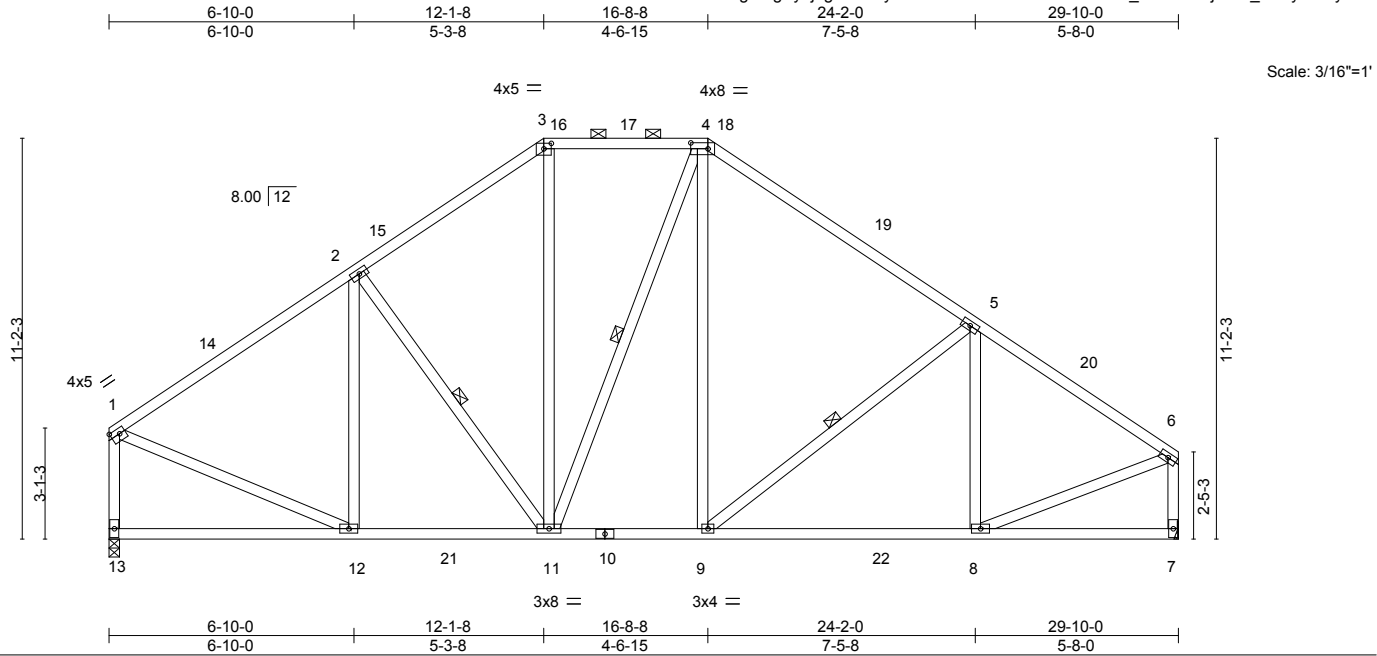


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:0-2-8,0-1-13], [4:0-5-12,0-2-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.11	8-9	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.20	8-9	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 217 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-7-10 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-11, 4-11, 5-9

REACTIONS.	(size) 13=0-3-8, 7=Mechanical
	Max Horz 13=-274(LC 8)
	Max Uplift 13=-399(LC 12), 7=-406(LC 13)
	Max Grav 13=1313(LC 2), 7=1324(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1267/408, 2-3=-1146/500, 3-4=-882/463, 4-5=-1209/476, 5-6=-1359/431, 1-13=-1208/415, 6-7=-1253/416
BOT CHORD	12-13=-273/302, 11-12=-373/1126, 9-11=-177/926, 8-9=-279/1084
WEBS	2-11=-321/269, 3-11=-180/440, 4-9=-143/485, 5-9=-365/297, 1-12=-240/1017, 6-8=-287/1135

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-1-8, Zone2 12-1-8 to 16-4-7, Zone1 16-4-7 to 16-8-8, Zone2 16-8-8 to 20-11-6, Zone1 20-11-6 to 29-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 3x6 MT20 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Refer to girder(s) for truss connections.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=399, 7=406.
  - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 24,2025

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



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T03G	GABLE	1	1	T38959549
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:54 2025 Page 1  
ID:5r2frgbregYyoybgsnrYiDyVSr7-KQ06evUFA4b54OaH4SUxWDuFQZn38EhK4Hk3kYyQXYx

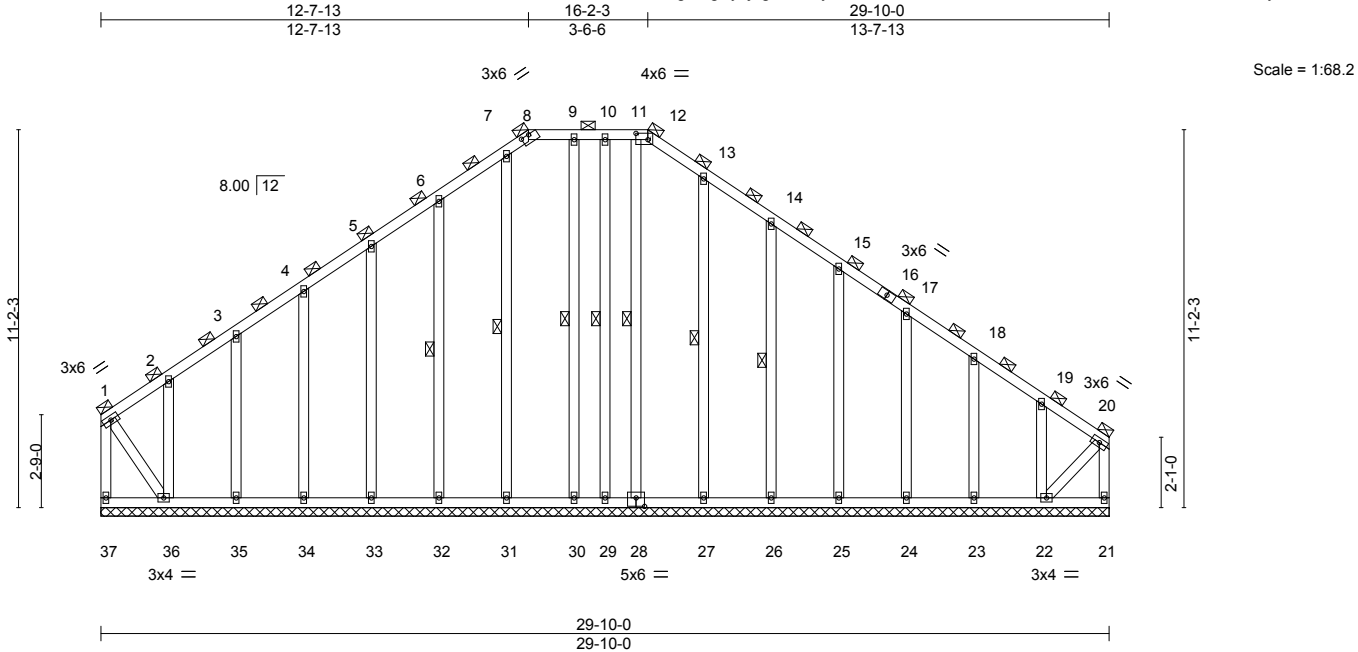


Plate Offsets (X,Y)-- [8:0-3-0,0-0-2], [12:0-4-4,0-2-4], [28:0-3-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	n/a - n/a	999	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a - n/a	999	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01 22 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 274 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-29, 14-26, 13-27, 11-28, 6-32, 7-31, 9-30
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 29-10-0.  
(lb) - Max Horz 37=-285(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 29, 27, 31, 30 except 37=-281(LC 10), 21=-164(LC 11), 22=-330(LC 13), 23=-115(LC 13), 24=-115(LC 13), 25=-113(LC 13), 26=-125(LC 13), 36=-401(LC 12), 35=-115(LC 12), 34=-115(LC 12), 33=-113(LC 12), 32=-135(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 29, 23, 24, 25, 26, 27, 28, 35, 34, 33, 32, 31, 30 except 37=375(LC 12), 21=304(LC 13), 22=277(LC 20), 36=361(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-37=-368/294, 6-7=-179/281, 7-8=-174/268, 8-9=-165/275, 9-10=-165/275, 10-11=-165/275, 11-12=-165/275, 12-13=-188/296, 20-21=-298/179  
BOT CHORD 36-37=-276/284  
WEBS 1-36=-275/348, 20-22=-183/295

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) Provide adequate drainage to prevent water ponding.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable requires continuous bottom chord bearing.
  - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 9) Gable studs spaced at 2-0-0 oc.
  - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 27, 31, 30 except (jt=lb) 37=281, 21=164, 22=330, 23=115, 24=115, 25=113, 26=125, 36=401, 35=115, 34=115, 33=113, 32=135.
  - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959550
4894417	T04	Piggyback Base	2	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:55 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-odaUsFVbNjviY9TeA?A3QRFNzt8tWmTJxTcG\_yQXYw

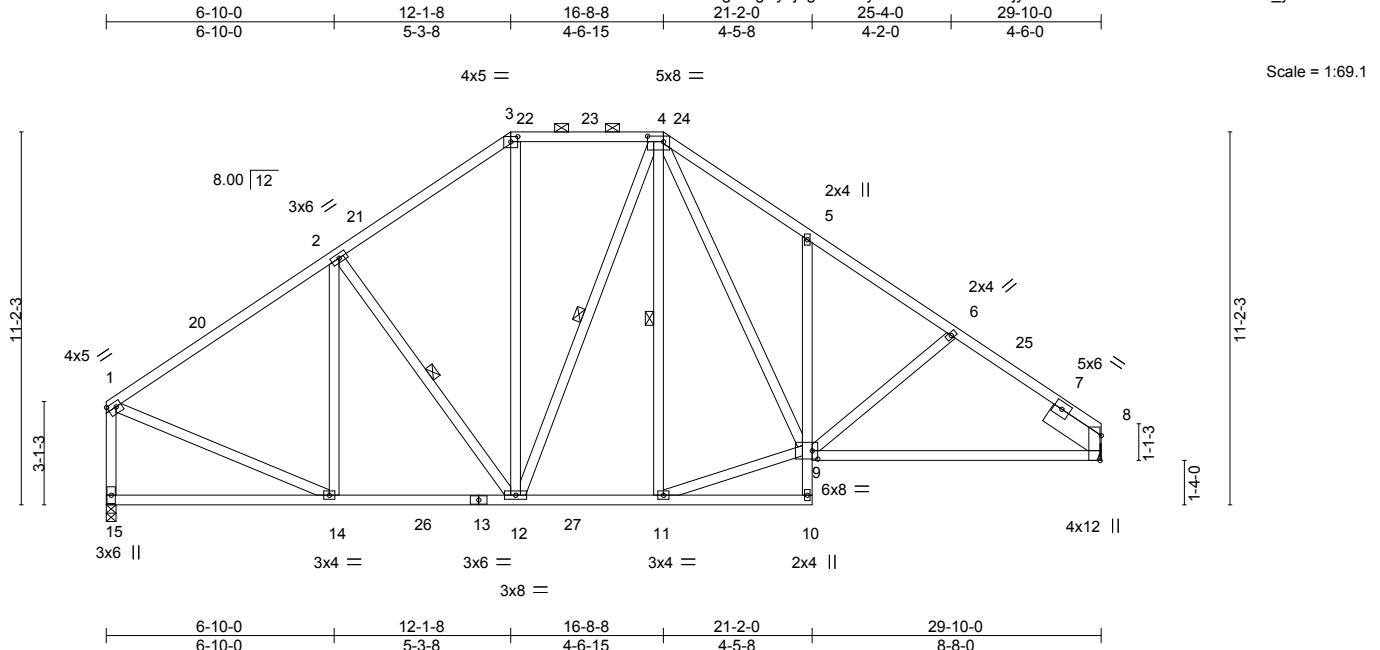


Plate Offsets (X,Y)--		[1:Edge,0-1-12], [3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [8:0-8-15,Edge], [9:0-2-0,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81
TCDL 10.0	Lumber DOL	1.25	BC 0.96
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.11 9-18 >999 240
		Vert(CT)	-0.23 9-18 >999 180
		Horz(CT)	0.07 8 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 230 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): 3-4.
BOT CHORD 2x4 SP No.2 *Except* 5-10: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-12, 4-12, 4-11
SLIDER Right 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS.	(size) 8=Mechanical, 15=0-3-8
	Max Horz 15=-277(LC 8)
	Max Uplift 8=-408(LC 13), 15=-401(LC 12)
	Max Grav 8=1301(LC 20), 15=1310(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1262/411, 2-3=-1142/503, 3-4=-880/466, 4-5=-1558/718, 5-6=-1519/529, 6-8=-1628/557, 1-15=-1204/417
BOT CHORD	14-15=-273/303, 12-14=-372/1123, 11-12=-175/910, 5-9=-363/313, 8-9=-355/1268
WEBS	2-12=-319/268, 3-12=-162/417, 9-11=-156/937, 4-9=-429/923, 1-14=-242/1012

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 12-1-8, Zone2 12-1-8 to 16-4-7, Zone1 16-4-7 to 16-8-8, Zone2 16-8-8 to 21-1-4, Zone1 21-1-4 to 29-10-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=408, 15=401.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017  
Date:

October 24,2025

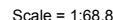
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8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:56 2025 Page 1



**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**TOP CHORD** 1-2=-1007/343, 2-3=-1025/459, 3-4=-786/432, 4-5=-1472/690, 5-6=-1428/499,  
6-8=-1541/529, 1-15=-1176/402

**BOT CHORD** 14-15=-252/277, 12-14=-293/924, 11-12=-147/838, 5-9=-359/312, 8-9=-334/1200

**WEBS** 2-14=-364/178, 3-12=-135/351, 9-11=-129/866, 4-9=-424/909, 1-14=-243/935

**NOTES-**

- 1) Unbalanced purlin live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDD=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpI=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-9-8, Zone2 10-9-8 to 15-0-7, Zone1 15-0-7 to 15-4-8, Zone2 15-4-8 to 19-9-4, Zone1 19-9-4 to 28-6-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=390, 15=377.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959552
4894417	T06	Piggyback Base	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:56 2025 Page 1  
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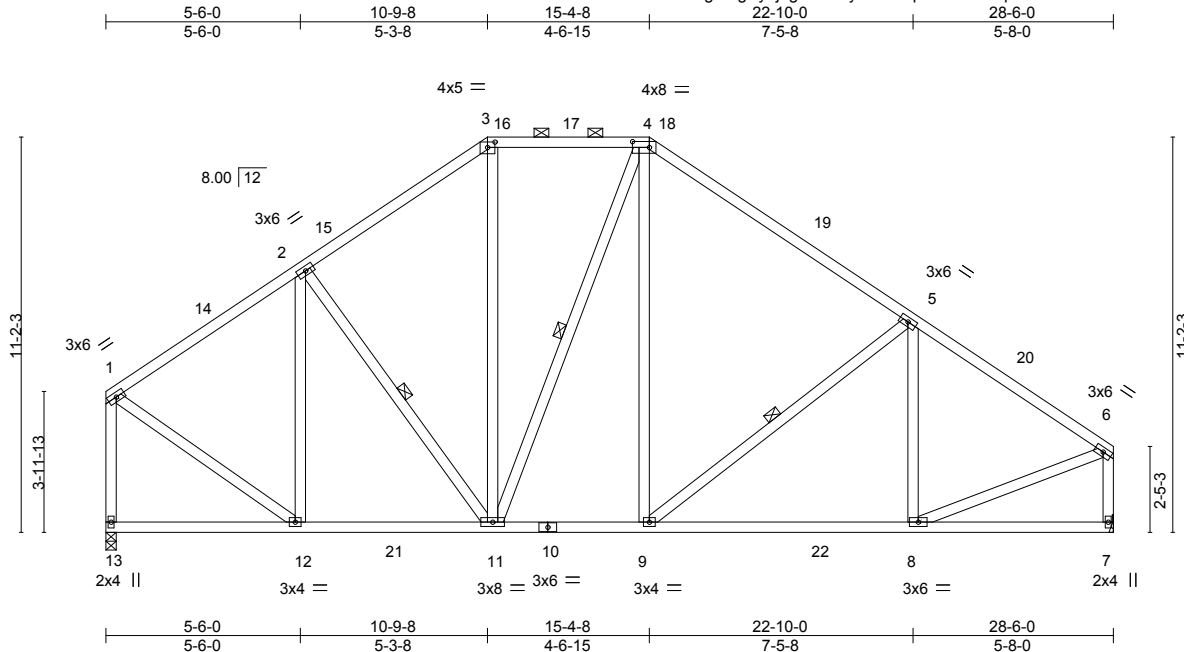


Plate Offsets (X,Y)-- [3:0-2-8,0-1-13], [4:0-5-12,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.10	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.20	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 212 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 4-4-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 2-11, 4-11, 5-9

**REACTIONS.**

(size) 13=0-3-8, 7=Mechanical  
Max Horz 13=-271(LC 8)  
Max Uplift 13=-375(LC 12), 7=-387(LC 13)  
Max Grav 13=1259(LC 2), 7=1270(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-1011/341, 2-3=-1029/457, 3-4=-788/430, 4-5=-1124/446, 5-6=-1293/410,  
1-13=-1181/400, 6-7=-1198/398  
BOT CHORD 12-13=-250/275, 11-12=-295/927, 9-11=-150/854, 8-9=-262/1029  
WEBS 2-12=-360/178, 3-11=-153/375, 4-11=-271/172, 4-9=-147/493, 5-9=-384/303,  
1-12=-241/940, 6-8=-267/1076

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 10-9-8, Zone2 10-9-8 to 15-0-7, Zone1 15-0-7 to 15-4-8, Zone2 15-4-8 to 19-7-6, Zone1 19-7-6 to 28-4-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=375, 7=387.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959553
4894417	T07	Piggyback Base	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:57 2025 Page 1  
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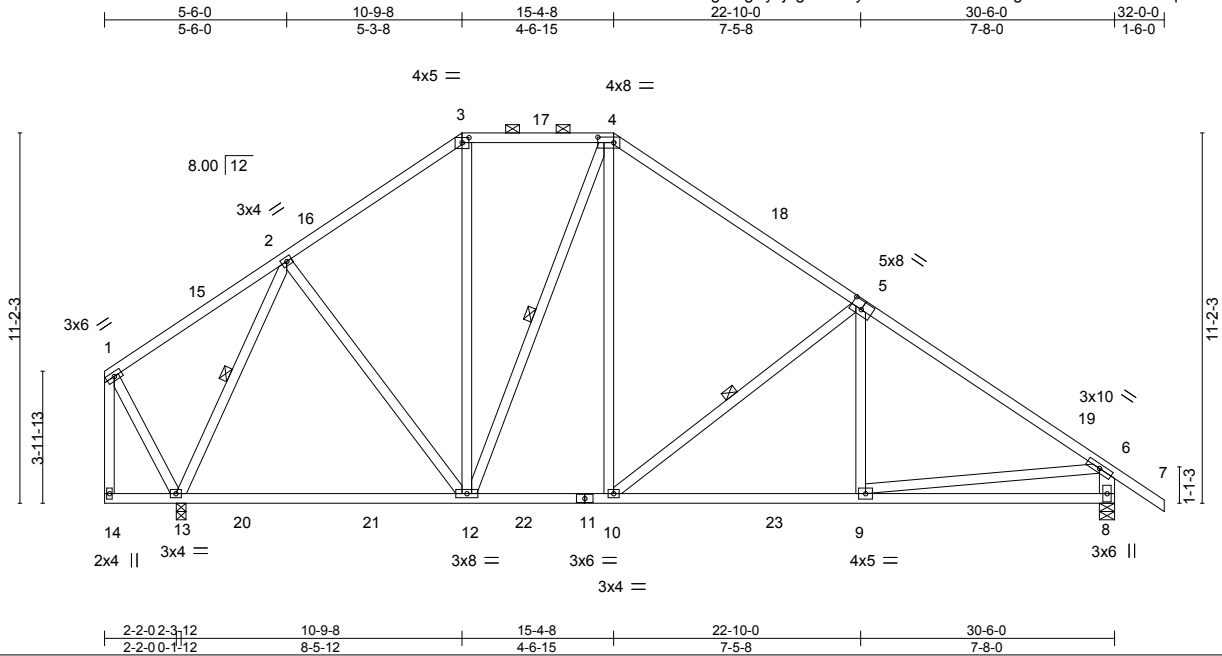


Plate Offsets (X,Y)--		[3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [5:0-4-0,0-3-0]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.66	Vert(LL)	-0.20 12-13	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.76	Vert(CT)	-0.32 12-13	>999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.49	Horz(CT)	0.03 8	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 220 lb FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
6-8: 2x6 SP No.2

**REACTIONS.**

(size) 13=0-3-8, 8=0-5-8  
Max Horz 13=-356(LC 8)  
Max Uplift 13=-426(LC 12), 8=-458(LC 13)  
Max Grav 13=1460(LC 2), 8=1379(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-932/422, 3-4=-707/398, 4-5=-1096/438, 5-6=-1595/497, 6-8=-1265/477  
BOT CHORD 12-13=-249/665, 10-12=-123/866, 9-10=-250/1239, 8-9=-172/290  
WEBS 2-13=-1184/447, 2-12=-147/429, 3-12=-138/329, 4-12=-420/237, 4-10=-212/622,  
5-10=-688/403, 5-9=0/288, 6-9=-147/996

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-2-6, Zone1 3-2-6 to 10-9-8, Zone3 10-9-8 to 15-4-8, Zone2 15-4-8 to 19-8-4, Zone1 19-8-4 to 32-0-0 zone; cantilever left exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=426, 8=458.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

October 24,2025

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314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959554
4894417	T08	Piggyback Base	2	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:58 2025 Page 1

ID:5r2frgbregYyojbgsnrYiDyVSr7-CCFdUHXIEI5XZ0u2JIYth33oQAZ24ylw?viGtJyQXYt

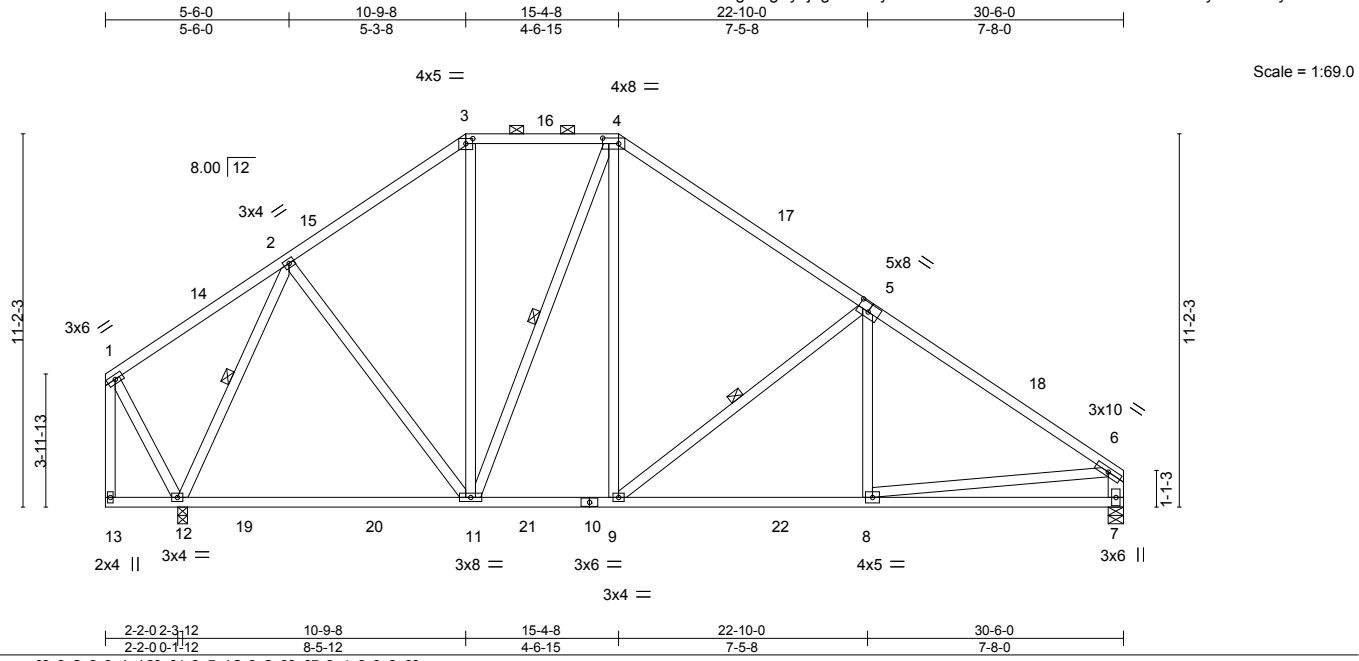


Plate Offsets (X,Y)--										[3:0-2-8,0-1-13], [4:0-5-12,0-2-0], [5:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.70	Vert(LL)	-0.20	11-12	>999	240	MT20	244/190					
TCDL	10.0	Lumber DOL 1.25				BC	0.76	Vert(CT)	-0.32	11-12	>999	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.50	Horz(CT)	0.03	7	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 218 lb		FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 6-7: 2x6 SP No.2	WEBS 6-0-0 oc bracing: 12-13. 1 Row at midpt 2-12, 4-11, 5-9
REACTIONS. (size) 12=0-3-8, 7=0-5-8	
Max Horz 12=-332(LC 8)	
Max Uplift 12=-427(LC 12), 7=-398(LC 13)	
Max Grav 12=1463(LC 2), 7=1276(LC 20)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-934/423, 3-4=-709/399, 4-5=-1101/440, 5-6=-1603/498, 6-7=-1161/417	
BOT CHORD 11-12=-264/647, 9-11=-138/850, 8-9=-308/1253, 7-8=-140/251	
WEBS 2-12=-1187/448, 2-11=-147/430, 3-11=-138/329, 4-11=-422/237, 4-9=-219/632, 5-9=-705/413, 5-8=0/285, 6-8=-177/1035	

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-2-6, Zone1 3-2-6 to 10-9-8, Zone3 10-9-8 to 15-4-8, Zone2 15-4-8 to 19-8-4, Zone1 19-8-4 to 30-3-4 zone; cantilever left exposed ; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCdL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=427, 7=398.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959555
4894417	T09	Piggyback Base	5	1		
Job Reference (optional)						

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:17:59 2025 Page 1

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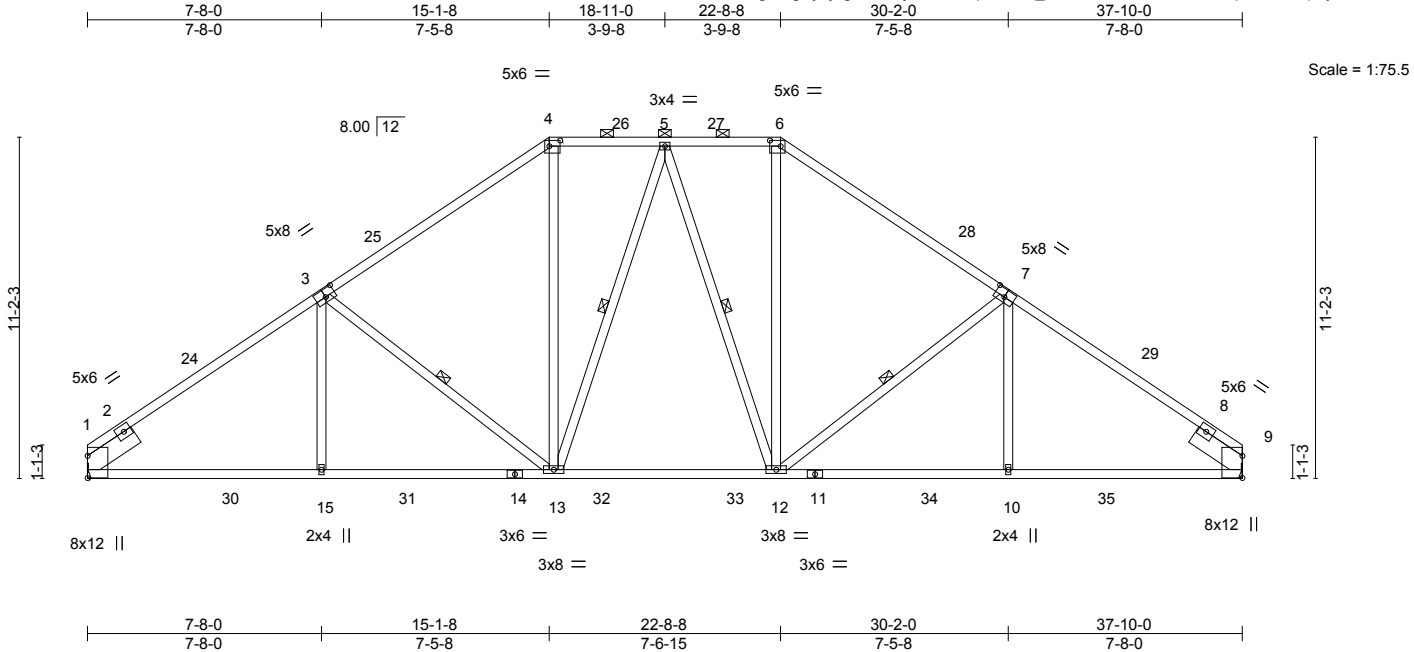


Plate Offsets (X,Y)--										[3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.80	Vert(LL)	-0.21	13-15	>999	240	MT20	244/190					
TCDL	10.0	Lumber DOL 1.25				BC	0.61	Vert(CT)	-0.39	13-15	>999	180							
BCLL	0.0 *	Rep Stress Incr YES				WB	0.49	Horz(CT)	0.16	9	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 243 lb		FT = 20%					

LUMBER-

TOP CHORD 2x4 SP No.1 \*Except\*  
4-6: 2x4 SP No.2  
1-3,7-9: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31  
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31  
WEBS 2x4 SP No.3  
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-7-8 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.  
WEBS 1 Row at midpt 3-13, 5-13, 5-12, 7-12

REACTIONS.

(size) 1=Mechanical, 9=Mechanical  
Max Horz 1=322(LC 9)  
Max Uplift 1=-534(LC 12), 9=-534(LC 13)  
Max Grav 1=1728(LC 2), 9=1728(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-2333/726, 3-4=-1875/672, 4-5=-1481/647, 5-6=-1481/647, 6-7=-1875/672, 7-9=-2333/726  
BOT CHORD 1-15=-674/2002, 13-15=-675/2000, 12-13=-332/1502, 10-12=-458/1838, 9-10=-457/1840  
WEBS 3-15=0/319, 3-13=-635/401, 4-13=-214/675, 5-13=-240/253, 5-12=-240/253, 6-12=-214/675, 7-12=-636/402, 7-10=0/319

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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-6, Zone1 3-9-6 to 15-1-8, Zone2 15-1-8 to 20-5-12, Zone1 20-5-12 to 22-8-8, Zone2 22-8-8 to 28-0-11, Zone1 28-0-11 to 37-10-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=534, 9=534.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 24,2025

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

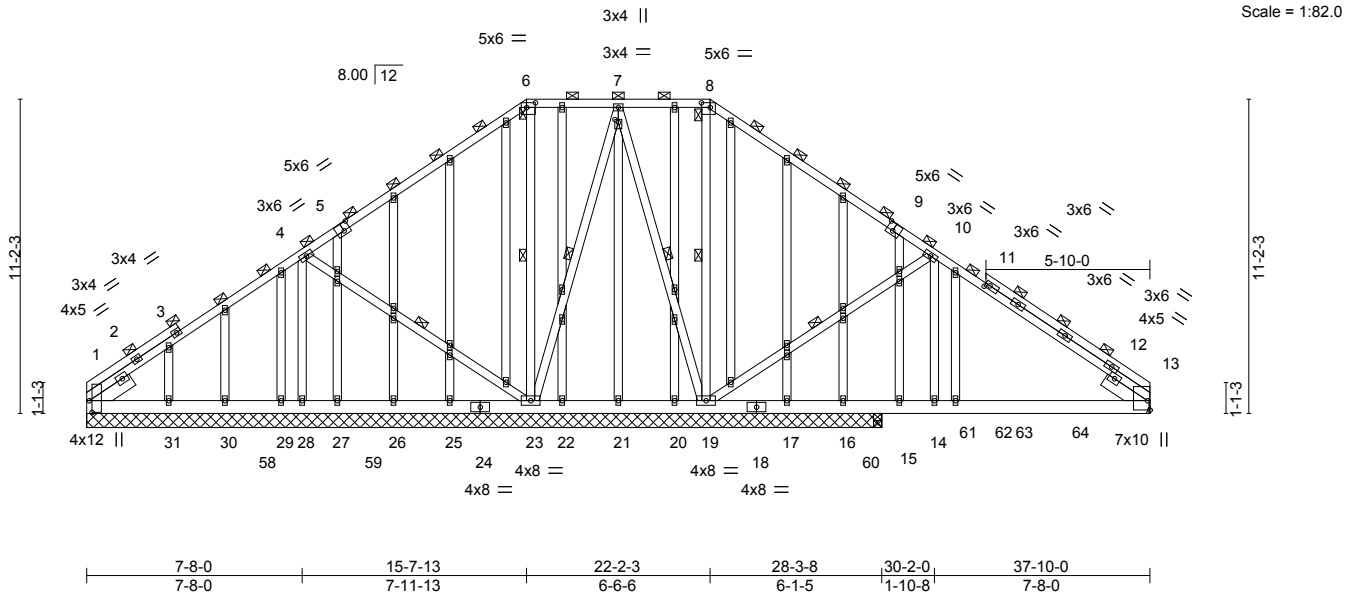
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959556
4894417	T09G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:01 2025 Page 1  
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959556
4894417	T09G	GABLE	1	1	Job Reference (optional)	

- NOTES-**
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 58 lb down and 60 lb up at 29-10-12, 17 lb down and 25 lb up at 31-2-12, 274 lb down and 215 lb up at 33-2-12, and 274 lb down and 215 lb up at 35-2-12, and 278 lb down and 211 lb up at 37-5-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) 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 (plf)
- Vert: 1-6=-60, 6-8=-60, 8-13=-60, 1-13=-20
- Concentrated Loads (lb)
- Vert: 14=-2(B) 13=-277(B) 61=-17 63=-273(B) 64=-273(B)

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

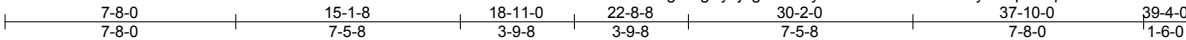
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959557
4894417	T10	Piggyback Base	2	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:02 2025 Page 1

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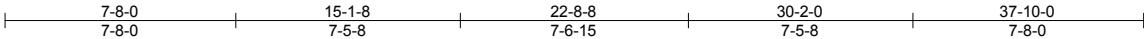
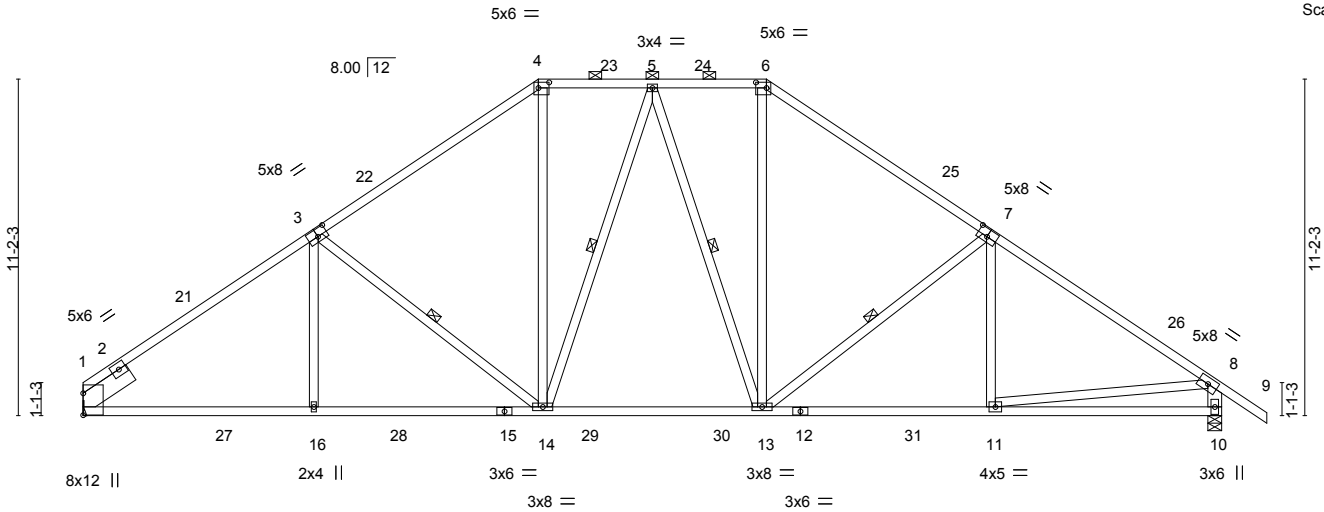


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [4:0-4-4,0-2-4], [6:0-4-4,0-2-4], [7:0-4-0,0-3-0]						
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	<b>L/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.79	Vert(LL) -0.19 14-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.60	Vert(CT) -0.35 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) -0.08 1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS				Weight: 252 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.1 \*Except\*  
4-6,7-9: 2x4 SP No.2  
1-3: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31  
BOT CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31  
WEBS 2x4 SP No.3 \*Except\*  
8-10: 2x6 SP No.2  
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-1 max.): 4-6.  
BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing.  
WEBS 1 Row at midpt 3-14, 5-14, 5-13, 7-13

**REACTIONS.**

(size) 1=Mechanical, 10=0-5-8  
Max Horz 1=-367(LC 8)  
Max Uplift 1=-532(LC 12), 10=-590(LC 13)  
Max Grav 1=1708(LC 2), 10=1772(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-2302/722, 3-4=-1843/667, 4-5=-1454/643, 5-6=-1435/637, 6-7=-1831/658,  
7-8=-2245/693, 8-10=-1651/612  
BOT CHORD 1-16=-629/2003, 14-16=-629/2001, 13-14=-300/1467, 11-13=-409/1781, 10-11=-201/348  
WEBS 3-16=0/320, 3-14=-637/402, 4-14=-210/660, 5-14=-225/252, 5-13=-259/256,  
6-13=-216/673, 7-13=-610/385, 8-11=-277/1491

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-9-6, Zone1 3-9-6 to 15-1-8, Zone2 15-1-8 to 20-5-12, Zone1 20-5-12 to 22-8-8, Zone2 22-8-8 to 28-0-11, Zone1 28-0-11 to 39-4-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=532, 10=590.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 24,2025

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Chesterfield, MO 63017  
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959558
4894417	T11	Piggyback Base	4	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:03 2025 Page 1

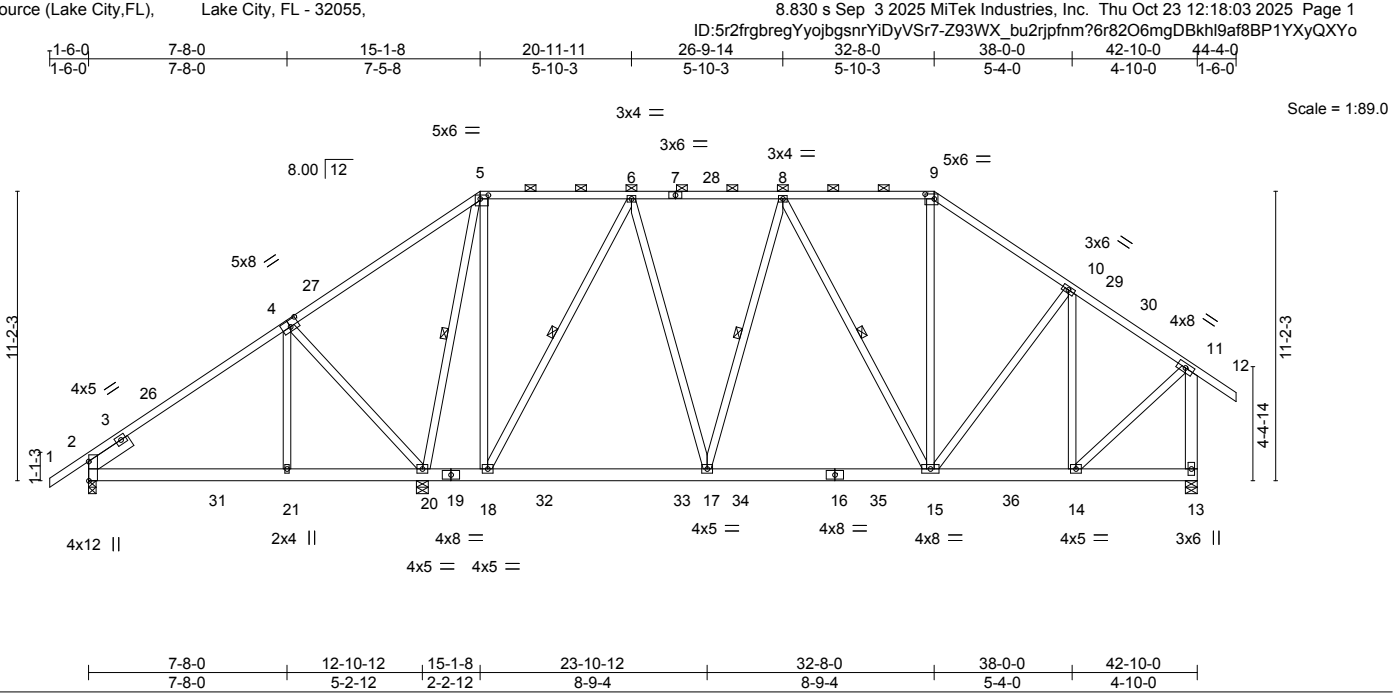


Plate Offsets (X,Y)-- [2:0-8-15,Edge], [4:0-4-0,0-3-0], [5:0-3-12,0-1-12], [9:0-4-4,0-2-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.25		TC	0.63	Vert(LL)	-0.08 17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.47	Vert(CT)	-0.14 17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.76	Horz(CT)	0.03 13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 356 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-2 max.): 5-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-20, 6-18, 8-17, 8-15
SLIDER Left 2x6 SP No.2 1-11-8	

REACTIONS.	(size) 2=0-3-8, 20=0-5-8, 13=0-5-8
	Max Horz 2=438(LC 11)
	Max Uplift 2=306(LC 12), 20=596(LC 9), 13=530(LC 13)
	Max Grav 2=737(LC 27), 20=1815(LC 2), 13=1472(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-665/478, 4-5=-262/308, 5-6=-376/366, 6-8=-968/506, 8-9=-894/503, 9-10=-1150/519, 10-11=-987/415, 11-13=-1395/536
BOT CHORD	2-21=-471/658, 20-21=-470/656, 18-20=-288/444, 17-18=-405/820, 15-17=-404/998, 14-15=-253/771
WEBS	4-21=-234/313, 4-20=-608/536, 5-20=-1265/302, 5-18=-293/1037, 6-18=-971/433, 6-17=-166/584, 8-15=-288/273, 9-15=-115/353, 10-14=-506/228, 11-14=-287/1022

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-9-6, Zone1 2-9-6 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 44-4-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 20=596, 13=530.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

October 24,2025

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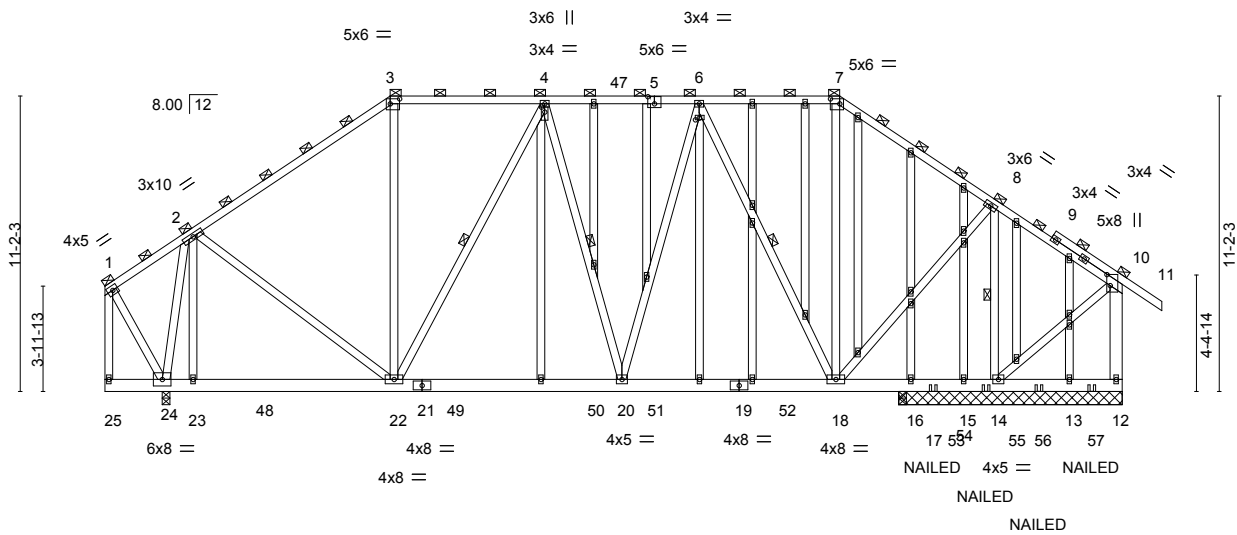
Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959559
4894417	T11G	GABLE	1	1		
Job Reference (optional)						

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:04 2025 Page 1

ID:5r2frgbregYyobjgsnrYiDyVSr7-1LdulKcWp8rgHxLcGZfhwKlnlb4nUb8oNr9b4zyQXYn

3-4-0 10-9-8 16-7-11 22-5-14 27-9-11 33-8-0 38-6-0 40-0-0  
3-4-0 7-5-8 5-10-3 5-10-3 5-3-13 5-10-5 4-10-0 1-6-0



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959559
4894417	T11G	GABLE	1	1	Job Reference (optional)	

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-7=-60, 7-10=-60, 10-11=-60, 12-25=-20  
Concentrated Loads (lb)  
Vert: 54=-161(F) 55=-161(F) 56=-161(F) 57=-162(F)

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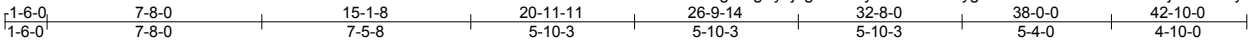
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959560
4894417	T12	Piggyback Base	4	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:05 2025 Page 1  
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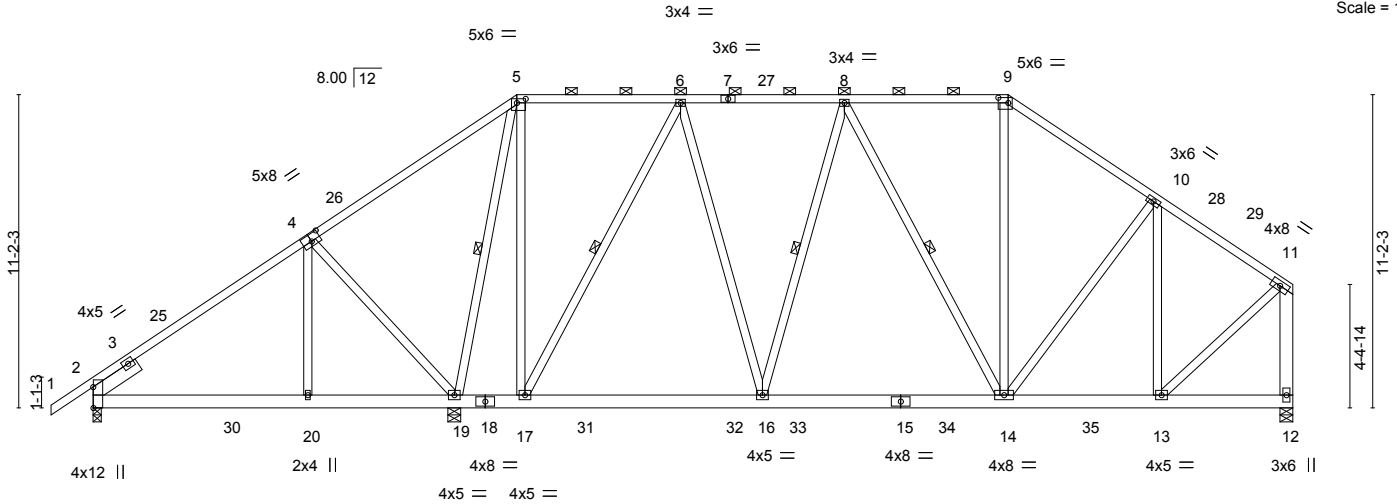


Plate Offsets (X,Y)--	[2:0-8-15,Edge], [4:0-4-0,0-3-0], [5:0-3-12,0-1-12], [9:0-4-4,0-2-4]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.08 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.47	Vert(CT)	-0.14 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 353 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-0 max.): 5-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-19, 6-17, 8-16, 8-14
SLIDER 11-12: 2x6 SP No.2	
Left 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-3-8, 19=0-5-8, 12=0-5-8  
Max Horz 2=425(LC 11)  
Max Uplift 2=-302(LC 12), 19=-598(LC 9), 12=-472(LC 13)  
Max Grav 2=737(LC 27), 19=1816(LC 2), 12=1383(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-665/470, 4-5=-267/299, 5-6=-378/360, 6-8=-971/499, 8-9=-899/492,  
9-10=-1157/511, 10-11=-993/396, 11-12=-1305/477  
BOT CHORD 2-20=-483/644, 19-20=-482/642, 17-19=-300/430, 16-17=-417/823, 14-16=-415/1002,  
13-14=-304/781  
WEBS 4-20=-235/312, 4-19=-607/537, 5-19=-1267/304, 5-17=-292/1039, 6-17=-973/432,  
6-16=-165/586, 8-14=-287/274, 9-14=-113/355, 10-13=-509/251, 11-13=-320/1025

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-9-6, Zone1 2-9-6 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 42-7-4 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=302, 19=598, 12=472.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.

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

October 24,2025

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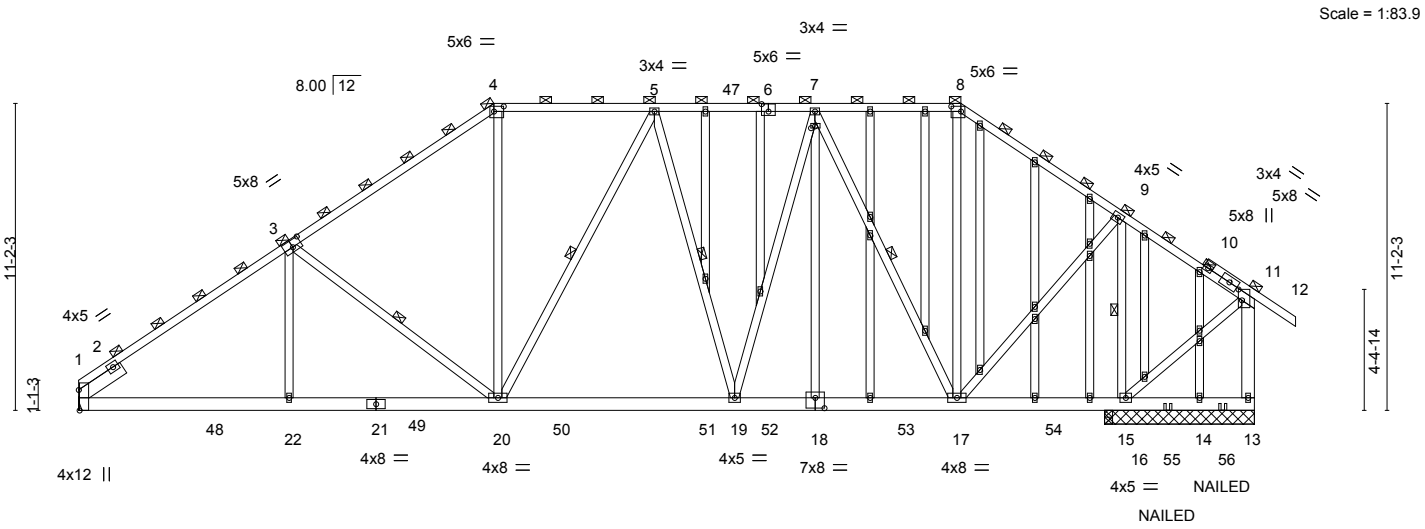
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959561
4894417	T12G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:07 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-SwI0NMeP63DF8O4nLhD\_YywMsp02hyXE3pNFhlyQXYk



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959561
4894417	T12G	GABLE	1	1	Job Reference (optional)	

- NOTES-**
- 13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 14) 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 (plf)

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 11-12=-60, 13-43=-20

Concentrated Loads (lb)

Vert: 55=-161(B) 56=-162(B)

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

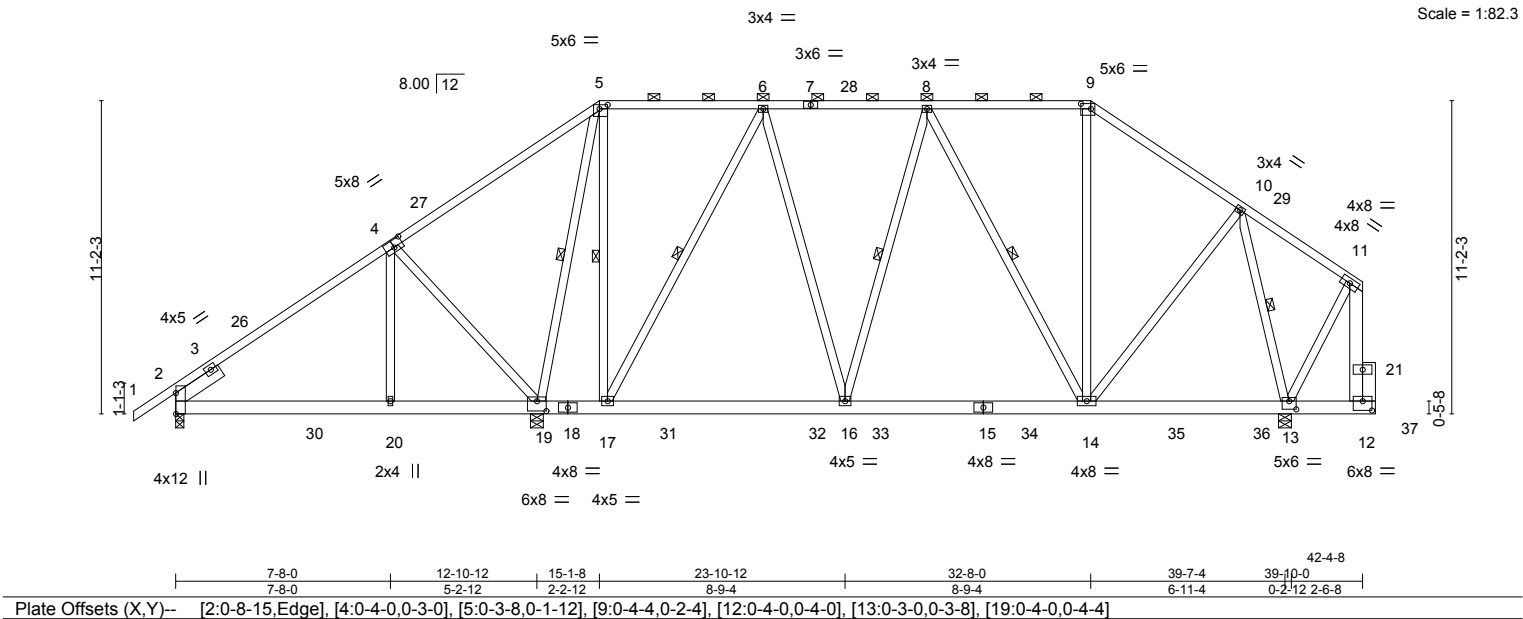
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959562
4894417	T13	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:08 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVsr7-w7sPahf1tNL6mYfzvOkD5ATUVCrgQQKOIT7oDkyQXYj  
1-6-0 7-8-0 15-1-8 20-11-11 26-9-14 32-8-0 38-0-0 42-4-8 42-10-0  
1-6-0 7-8-0 7-5-8 5-10-3 5-10-3 5-10-3 5-4-0 4-4-8 0-5-8



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.72	Vert(LL) 0.08 16-17 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.13 16-17 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.72	Horz(CT) -0.02 13 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 355 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 5-19, 5-17, 6-17, 8-16, 8-14, 10-13
11-12: 2x6 SP No.2	
OTHERS 2x6 SP No.2	
SLIDER Left 2x6 SP No.2 1-11-8	

REACTIONS.	(size) 2=0-3-8, 19=0-5-8, 13=0-5-8
	Max Horz 2=430(LC 11)
	Max Uplift 2=-301(LC 12), 19=-847(LC 9), 13=-917(LC 8)
	Max Grav 2=739(LC 27), 19=1638(LC 2), 13=1808(LC 2)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-669/470, 4-5=-259/339, 5-6=-344/451, 6-8=-794/684, 8-9=-584/560, 9-10=-780/597, 10-11=-165/304, 11-12=-224/339
BOT CHORD	2-20=-508/618, 19-20=-507/616, 17-19=-380/332, 16-17=-563/694, 14-16=-566/778
WEBS	4-20=-177/316, 4-19=-620/487, 5-19=-1104/550, 5-17=-545/880, 6-17=-772/546, 6-16=-224/421, 8-14=-449/387, 10-14=-469/693, 10-13=-1336/848, 11-13=-357/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-14, Zone1 2-8-14 to 15-1-8, Zone2 15-1-8 to 20-11-11, Zone1 20-11-11 to 32-8-0, Zone2 32-8-0 to 38-7-15, Zone1 38-7-15 to 42-1-12 zone; cantilever right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 301 lb uplift at joint 2, 847 lb uplift at joint 19 and 917 lb uplift at joint 13.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 239 lb down and 159 lb up at 42-4-8, and 114 lb down and 76 lb up at 42-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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Chesterfield, MO 63017  
Date:

October 24,2025

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959562
4894417	T13	Piggyback Base	1	1	Job Reference (optional)	

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-9=-60, 9-11=-60, 12-22=-20  
Concentrated Loads (lb)  
Vert: 12=-210(F) 37=-100

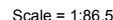
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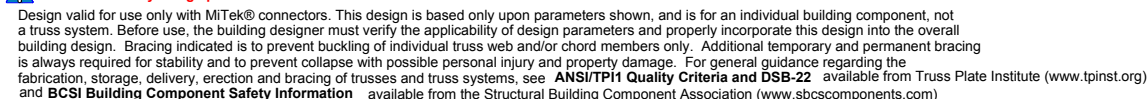
8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:09 2025 Page 1

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16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
Date:

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959563
4894417	T14	Piggyback Base	2	1	Job Reference (optional)	

**NOTES-**  
11) 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 (plf)  
Vert: 1-5=-60, 5-9=-60, 9-11=-60, 19-23=-20, 16-18=-20, 12-15=-20  
Concentrated Loads (lb)  
Vert: 12=-310(F=-210)

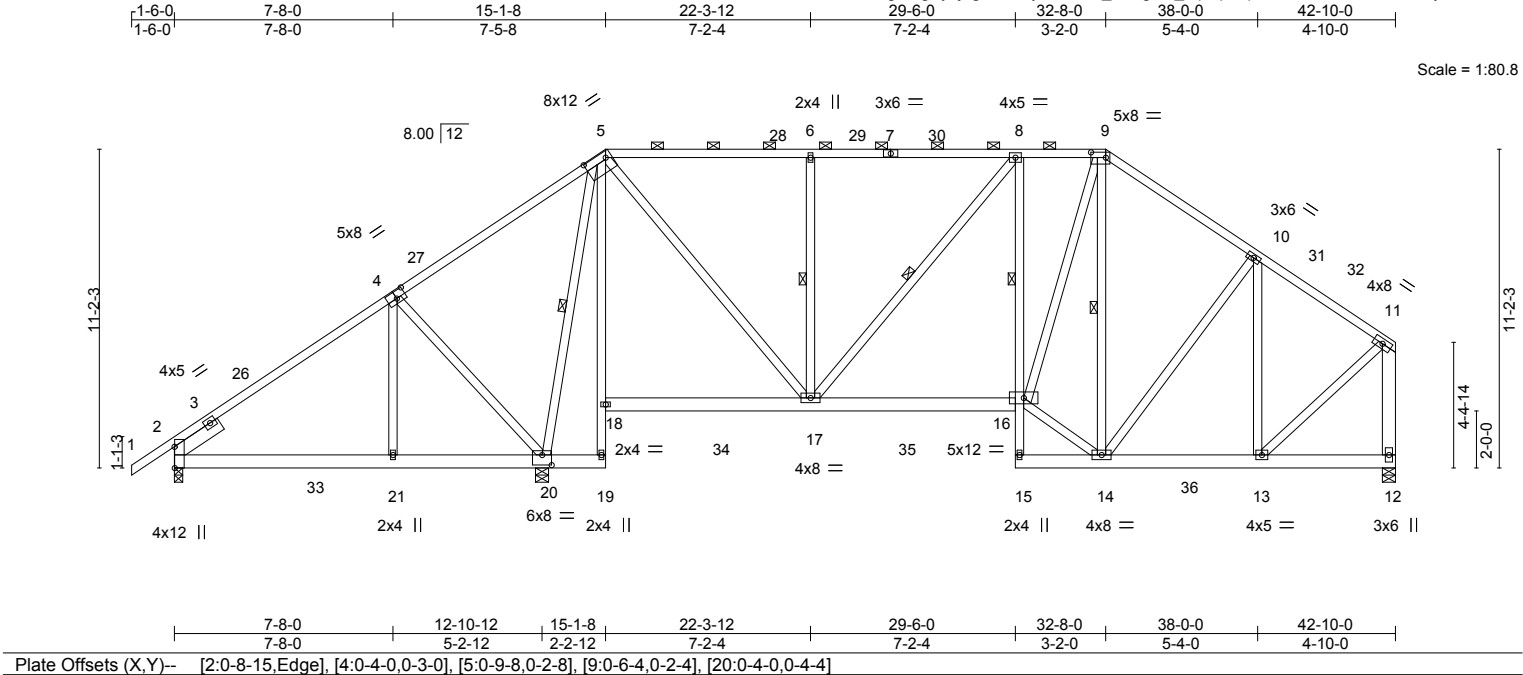
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959564
4894417	T15	Piggyback Base	4	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:10 2025 Page 1  
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.07 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.13 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.08 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 364 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-10 max.): 5-9.
BOT CHORD 2x6 SP No.2 *Except* 5-19,8-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 11-12: 2x6 SP No.2	1 Row at midpt 8-16
SLIDER Left 2x6 SP No.2 1-11-18	WEBS 1 Row at midpt 5-20, 6-17, 8-17, 9-14

REACTIONS.	(size) 2=0-3-8, 12=0-5-8, 20=0-5-8 Max Horz 2=425(LC 11) Max Uplift 2=-247(LC 12), 12=-467(LC 13), 20=-913(LC 9) Max Grav 2=448(LC 20), 12=1231(LC 28), 20=2235(LC 2)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-498/594, 4-5=-317/530, 5-6=-808/587, 6-8=-808/587, 8-9=-985/574, 9-10=-978/552, 10-11=-901/422, 11-12=-1159/470
BOT CHORD	2-21=-314/214, 20-21=-311/212, 16-17=-314/992, 13-14=-284/689
WEBS	4-21=-258/353, 4-20=-657/555, 5-20=-1614/627, 5-17=-383/1265, 6-17=-488/342, 8-17=-321/160, 14-16=-261/902, 9-16=-357/767, 9-14=-399/264, 10-13=-443/257, 11-13=-316/904

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 2-9-6, Zone1 2-9-6 to 14-11-12, Zone2 14-11-12 to 21-0-7, Zone1 21-0-7 to 32-8-0, Zone2 32-8-0 to 38-8-11, Zone1 38-8-11 to 42-7-4 zone; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) The Fabrication Tolerance at joint 5 = 16%
  - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 247 lb uplift at joint 2, 467 lb uplift at joint 12 and 913 lb uplift at joint 20.
  - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 24,2025

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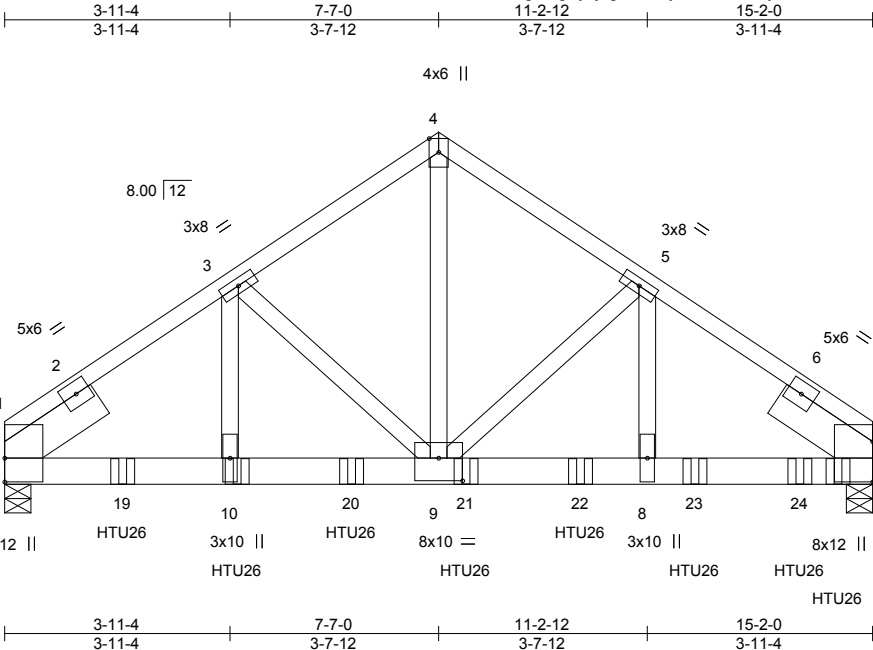
Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T16	Common Girder	1	2	T38959565

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:11 2025 Page 1

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Scale = 1:40.3

Plate Offsets (X,Y)--		[9:0-5-0,0-4-12]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.95	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.59	Vert(CT)	-0.16	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.72	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-13 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
4-9: 2x4 SP No.2	
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8	

REACTIONS. (size) 1=0-5-8, 7=0-5-8  
Max Horz 1=161(LC 5)  
Max Uplift 1=-2008(LC 8), 7=-2747(LC 9)  
Max Grav 1=6214(LC 2), 7=8422(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-7453/2426, 3-4=-5907/1975, 4-5=-5914/1978, 5-7=-7872/2565  
BOT CHORD 1-10=-2006/6037, 9-10=-2006/6037, 8-9=-2038/6421, 7-8=-2038/6421  
WEBS 4-9=-2024/6189, 5-9=-2050/798, 5-8=-808/2523, 3-9=-1530/625, 3-10=-634/2010

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2008 lb uplift at joint 1 and 2747 lb uplift at joint 7.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 14-6-12 to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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Date:

October 24,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T16	Common Girder	1	2	T38959565

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 11-15=-20  
Concentrated Loads (lb)  
Vert: 10=-1493(B) 17=-1453(B) 19=-1493(B) 20=-1482(B) 21=-1482(B) 22=-1493(B) 23=-1493(B) 24=-1493(B)

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959566
4894417	T16G	Common Supported Gable	1	1	Job Reference (optional)	

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8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:11 2025 Page 1  
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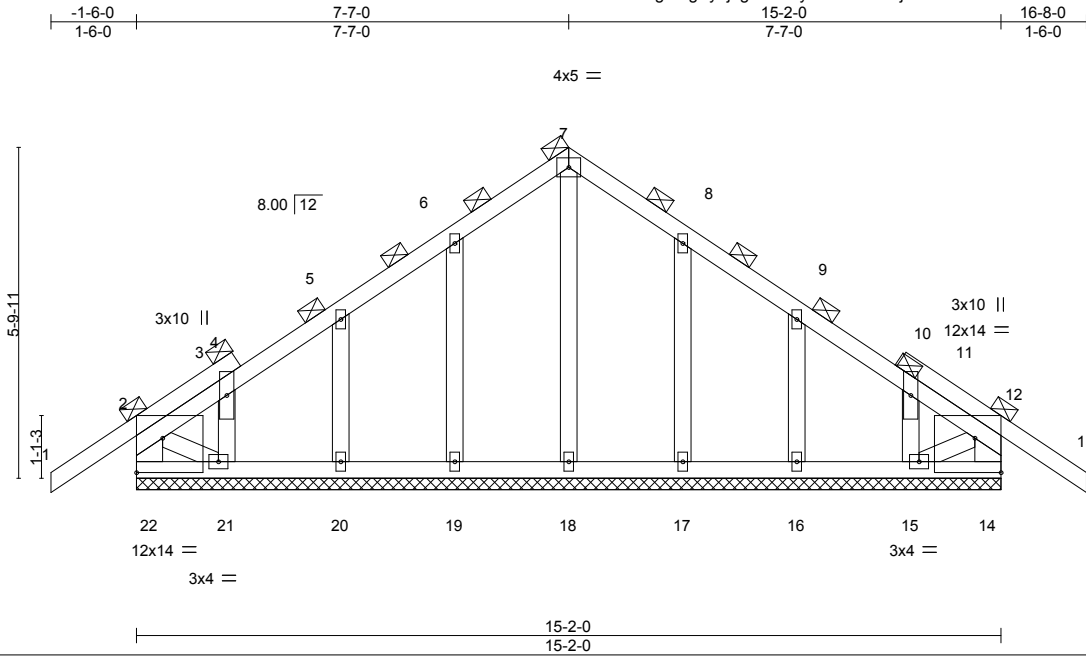


Plate Offsets (X,Y)--	[12:Edge,0-7-4], [22:Edge,0-7-4]	
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC	0.29
	BC	0.04
	WB	0.07
	Matrix-S	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.01 13 n/r 120
	Vert(CT)	-0.02 13 n/r 120
	Horz(CT)	0.00 14 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 98 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x6 SP No.2 \*Except\*  
2-21,12-15: 2x4 SP No.3  
OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 21-22,14-15.

**REACTIONS.**

All bearings 15-2-0.  
(lb) - Max Horz 22=217(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 22, 14 except 19=121(LC 12), 20=110(LC 12), 21=140(LC 12),  
17=119(LC 13), 16=112(LC 13), 15=128(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 22, 14, 18, 19, 20, 21, 17, 16, 15

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 14 except (jt=lb) 19=121, 20=110, 21=140, 17=119, 16=112, 15=128.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017  
Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959567
4894417	T17	Common	1	1	Job Reference (optional)	

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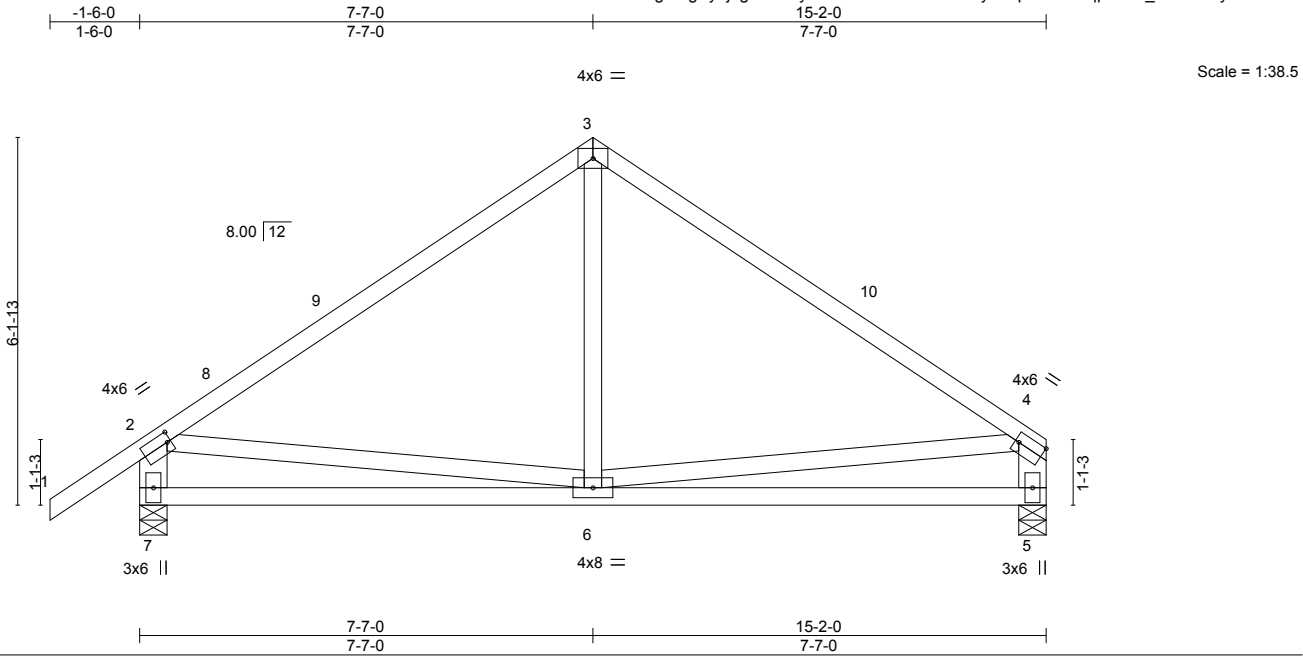


Plate Offsets (X,Y)--		[2:0-0-12,0-2-0], [4:Edge,0-2-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73
TCDL 10.0	Lumber DOL	1.25	BC 0.48
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.06 6-7 >999 240
			Vert(CT) -0.12 6-7 >999 180
			Horz(CT) 0.01 5 n/a n/a
			<b>PLATES</b> <b>GRIP</b>
			MT20 244/190
			Weight: 86 lb FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS 2x4 SP No.3 *Except*	
2-7,4-5: 2x6 SP No.2	

**REACTIONS.** (size) 7=0-5-8, 5=0-5-8  
Max Horz 7=224(LC 9)  
Max Uplift 7=-259(LC 12), 5=-197(LC 13)  
Max Grav 7=698(LC 1), 5=582(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-626/290, 3-4=-616/298, 2-7=-633/452, 4-5=-517/330  
BOT CHORD 6-7=-383/497, 5-6=-219/276  
WEBS 3-6=0/292, 2-6=-166/309, 4-6=-121/275

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-7-0, Zone2 7-7-0 to 11-9-15, Zone1 11-9-15 to 14-11-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 7=259, 5=197.

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Date:

October 24,2025

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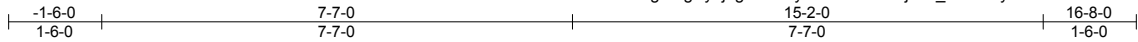
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959568
4894417	T17G	Common Structural Gable	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:13 2025 Page 1  
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4x5 =

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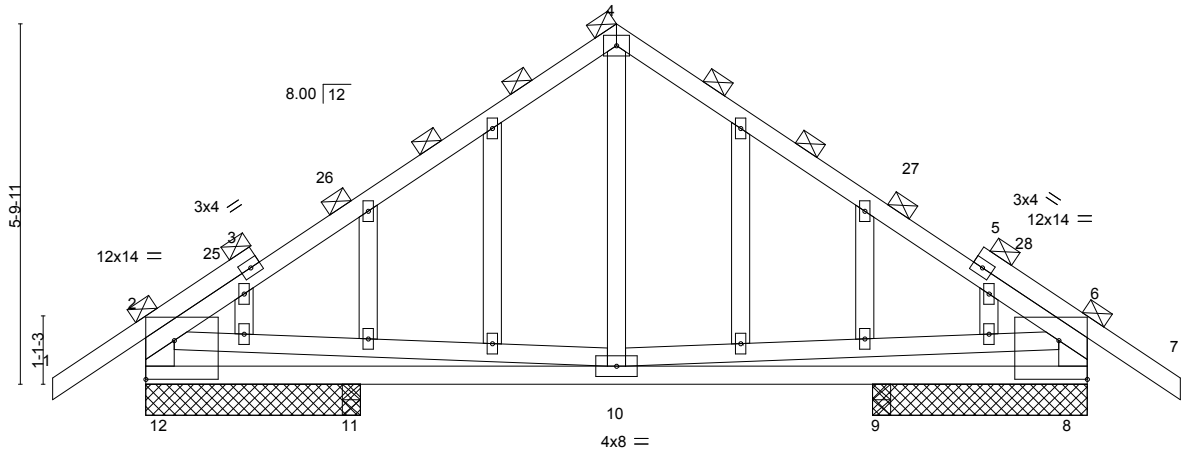


Plate Offsets (X,Y)--		[2:Edge,0-7-8], [6:Edge,0-7-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.01	10	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.02	10	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.01	8	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 112 lb FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-12,6-8: 2x6 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

#### REACTIONS.

All bearings 3-5-8 except (jt=length) 11=0-3-8, 9=0-3-8.  
(lb) - Max Horz 12=-217(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) except 12=-264(LC 12), 8=-266(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 11, 9 except 12=590(LC 1), 8=590(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-541/297, 4-6=-541/296, 2-12=-580/454, 6-8=-580/454  
BOT CHORD 11-12=-572/723, 10-11=-572/723, 9-10=-517/596, 8-9=-517/596  
WEBS 2-10=-373/520, 6-10=-375/524

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-7-0, Zone2 7-7-0 to 11-9-15, Zone1 11-9-15 to 16-8-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 12 and 266 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T18	Roof Special Girder	1	2	T38959569

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 15-16=-20, 10-14=-20, 8-9=-20  
Concentrated Loads (lb)  
Vert: 6=-1110(B) 13=-1168(B) 15=-1162(B) 17=-1168(B) 18=-1114(B) 19=-1114(B) 20=-1114(B)

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959570
4894417	T19G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:15 2025 Page 1  
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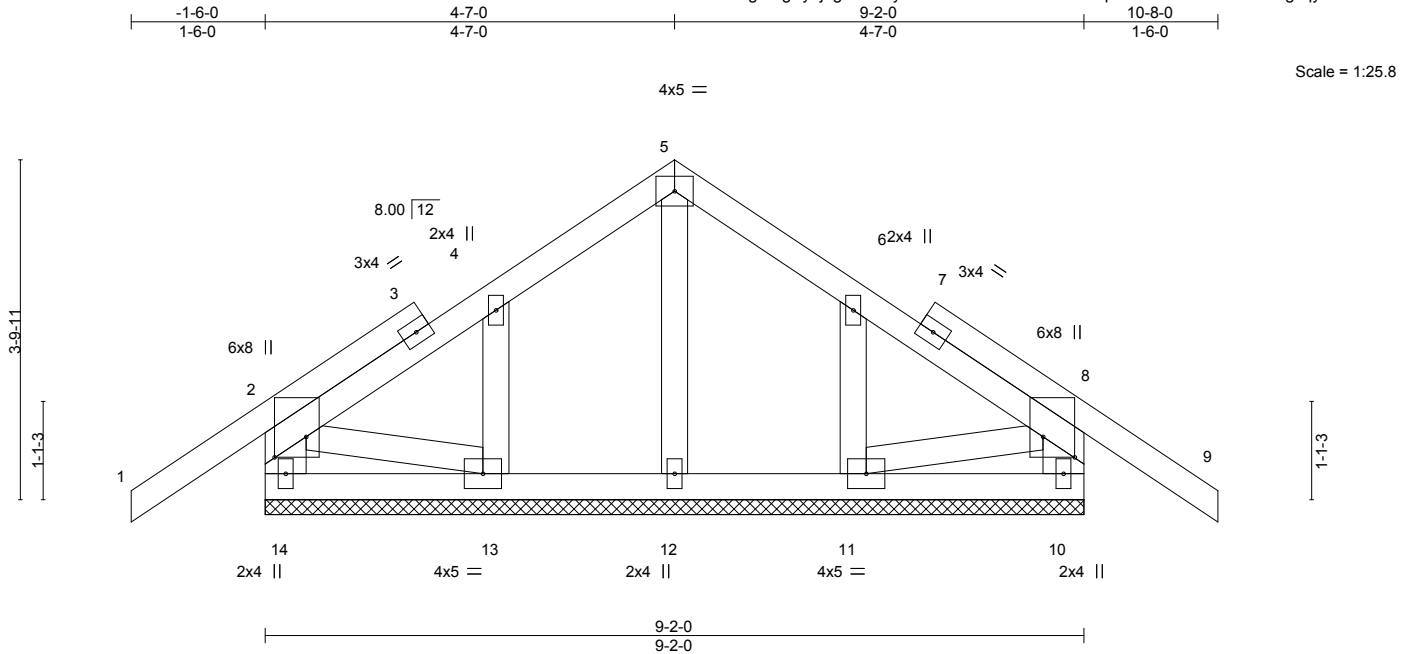


Plate Offsets (X,Y)--		[2:0-2-12,0-4-4], [8:0-2-12,0-4-4]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35
TCDL 10.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			<b>DEFL.</b> in (loc) l/defl L/d
			Vert(LL) -0.01 9 n/r 120
			Vert(CT) -0.02 9 n/r 120
			Horz(CT) 0.00 10 n/a n/a
			<b>PLATES</b> <b>GRIP</b>
			MT20 244/190
			Weight: 61 lb FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x6 SP No.2 \*Except\*  
2-13,8-11: 2x4 SP No.3  
OTHERS 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 6-0-0 oc bracing.

**REACTIONS.**

All bearings 9-2-0.  
(lb) - Max Horz 14=118(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 14, 10 except 13=137(LC 12), 11=132(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 14, 10, 12, 13, 11

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-14=208/291, 8-10=208/297

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 14, 10 except (jt=lb) 13=137, 11=132.

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Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959571
4894417	T20	Common	4	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:15 2025 Page 1  
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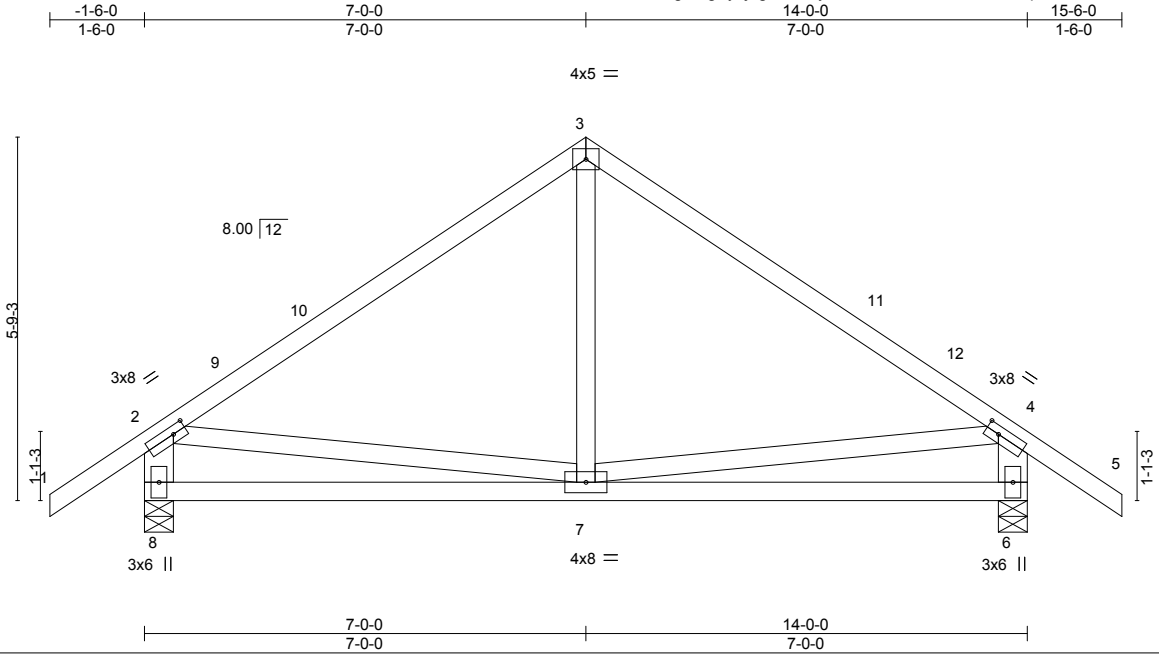


Plate Offsets (X,Y)--		[2:0-2-8,0-1-8], [4:0-2-8,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.57	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.41	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.12	Horz(CT)	0.01	6	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  
WEBS 2x4 SP No.3 \*Except\*  
2-8,4-6: 2x6 SP No.2

**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) 8=0-5-8, 6=0-5-8  
Max Horz 8=-224(LC 10)  
Max Uplift 8=-243(LC 12), 6=-243(LC 13)  
Max Grav 8=645(LC 1), 6=645(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-557/278, 3-4=-557/278, 2-8=-586/455, 4-6=-586/455  
BOT CHORD 7-8=-303/442, 6-7=-232/323  
WEBS 3-7=-3/266, 2-7=-136/264, 4-7=-144/269

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 15-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 8=243, 6=243.

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Chesterfield, MO 63017  
Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T20G	Common Supported Gable	1	1	T38959572
Job Reference (optional)					

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:16 2025 Page 1

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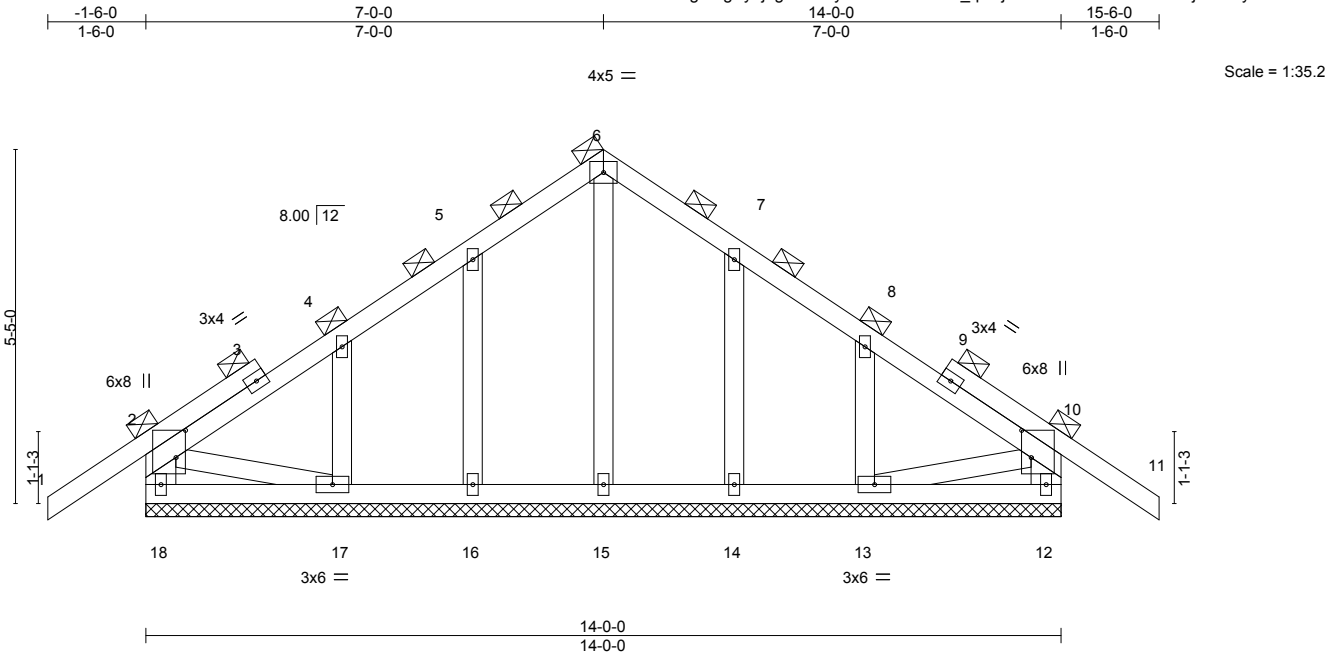


Plate Offsets (X,Y)--	[2:0-5-0,0-1-12], [10:0-5-0,0-1-12]	
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC 0.30	
	BC 0.05	
	WB 0.06	
	Matrix-S	
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.01 11 n/r 120
	Vert(CT)	-0.02 11 n/r 120
	Horz(CT)	0.00 12 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 92 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.2 *Except*	
OTHERS 2-17,10-13: 2x4 SP No.3	
2x4 SP No.3	

**REACTIONS.** All bearings 14-0-0.  
(lb) - Max Horz 18=205(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 12 except 16=119(LC 12), 17=154(LC 12), 14=119(LC 13), 13=149(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 18, 12, 15, 16, 17, 14, 13

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12 except (jt=lb) 16=119, 17=154, 14=119, 13=149.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959573
4894417	T21	Common Girder	1	2	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:17 2025 Page 1

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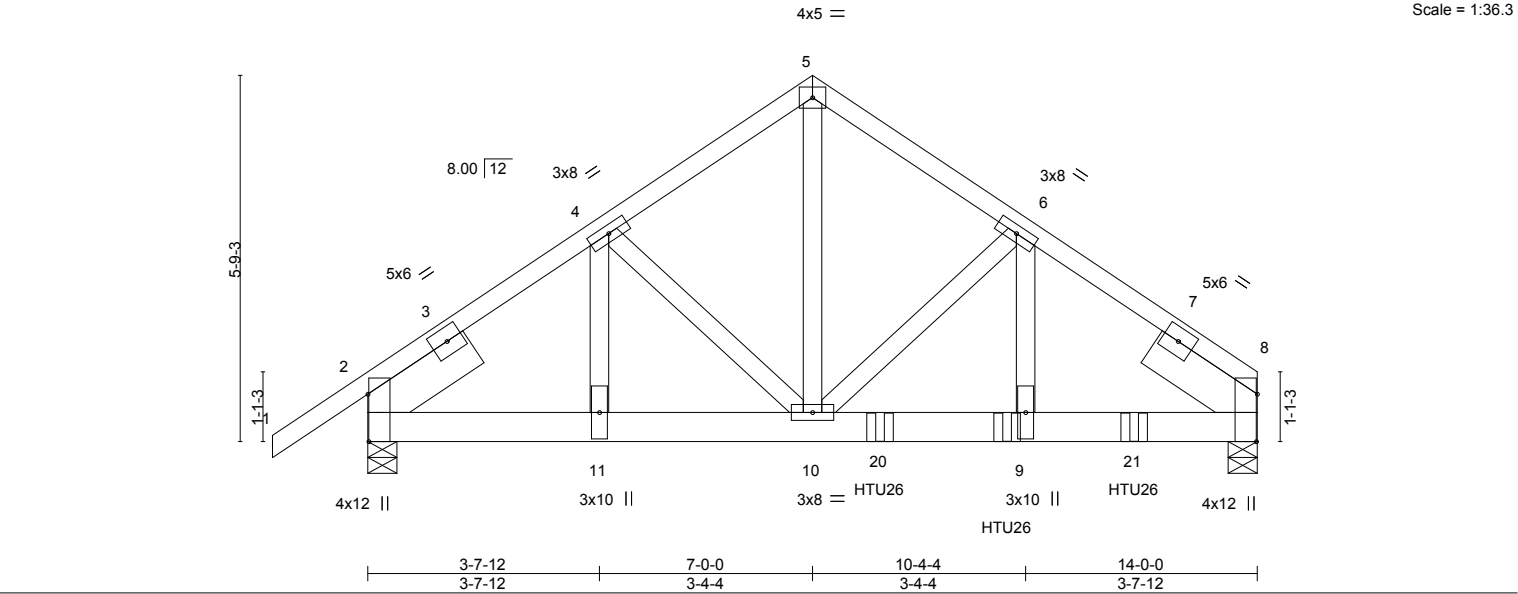


Plate Offsets (X,Y)--	[2:0-8-15,Edge], [8:0-8-15,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	0.05	9-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.08	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.49	Horz(CT)	0.02	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 202 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8	

**REACTIONS.** (size) 8=0-5-8, 2=0-5-8  
Max Horz 2=170(LC 26)  
Max Uplift 8=-1525(LC 9), 2=-805(LC 8)  
Max Grav 8=3943(LC 2), 2=1807(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-2129/958, 4-5=-2409/1165, 5-6=-2403/1160, 6-8=-4329/1780  
BOT CHORD 2-11=-798/1720, 10-11=-798/1720, 9-10=-1383/3504, 8-9=-1383/3504  
WEBS 5-10=-1141/2389, 6-10=-2082/820, 6-9=-864/2492, 4-10=-420/503, 4-11=-467/289

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1525, 2=805.
  - Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent at 8-0-12 from the left end to connect truss(es) to front face of bottom chord.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-12 from the left end to 12-0-12 to connect truss(es) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Continued on page 2

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Chesterfield, MO 63017  
Date:

October 24,2025

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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	T21	Common Girder	1	2	T38959573

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-60, 5-8=-60, 12-16=-20  
Concentrated Loads (lb)  
Vert: 9=-1493(F) 20=-1312(F) 21=-1493(F)

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959574
4894417	T22	Common	3	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:18 2025 Page 1

ID:5r2frgbregYyobjgsnrYiDyVSr7-d2TAh6niWSchz4QuUVvZUGuDvEukm0msb0YKa9yQXYZ

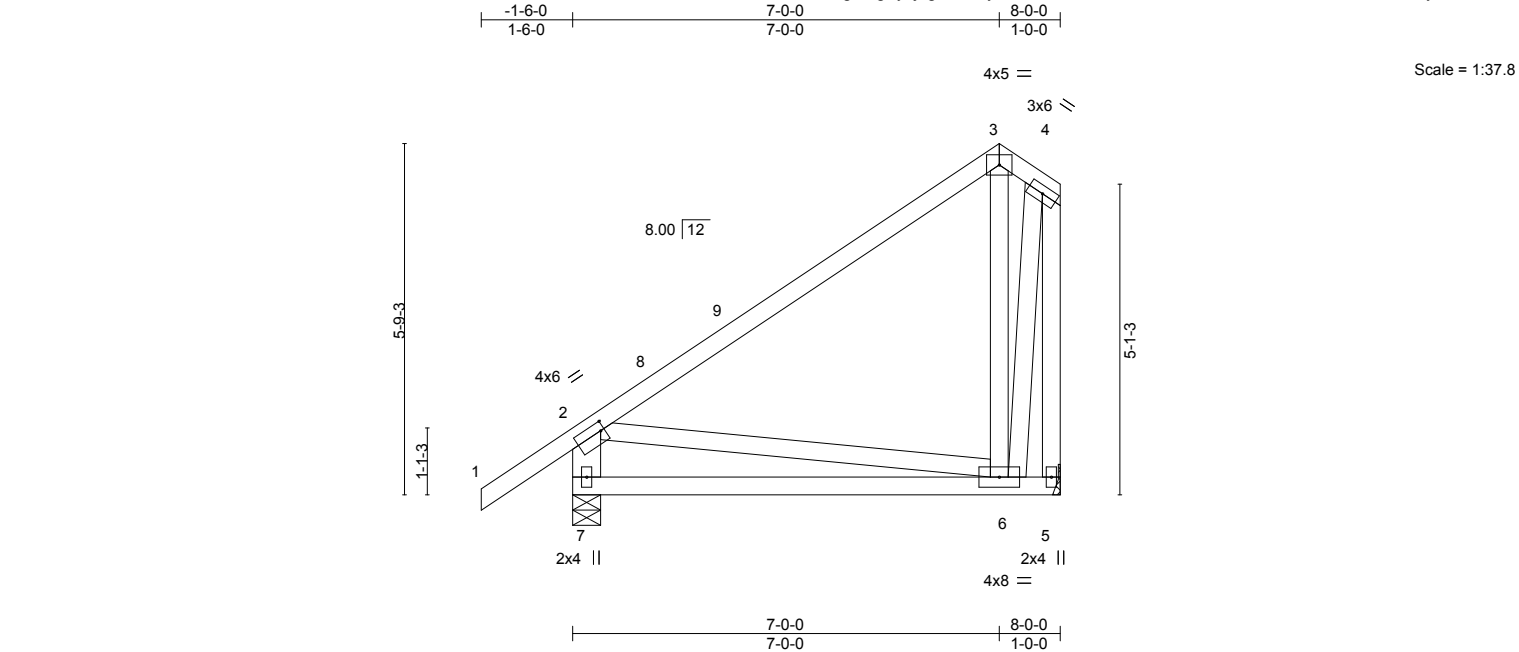


Plate Offsets (X,Y)--		[2:0-0-12,0-1-12]	
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0
TCLL	20.0	Plate Grip DOL	1.25
TCDL	10.0	Lumber DOL	1.25
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	FBC2023/TPI2014
		<b>CSI.</b>	
		TC	0.66
		BC	0.37
		WB	0.41
		Matrix-MS	
		<b>DEFL.</b>	in (loc) l/defl L/d
		Vert(LL)	-0.05 6-7 >999 240
		Vert(CT)	-0.11 6-7 >844 180
		Horz(CT)	-0.01 5 n/a n/a
		<b>PLATES</b>	<b>GRIP</b>
		MT20	244/190
		Weight: 63 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3 *Except*	BOT CHORD	Rigid ceiling directly applied or 7-2-7 oc bracing.
	2-7: 2x6 SP No.2		

**REACTIONS.** (size) 7=0-5-8, 5=Mechanical  
Max Horz 7=242(LC 12)  
Max Uplift 7=-115(LC 12), 5=-195(LC 12)  
Max Grav 7=421(LC 1), 5=319(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-7=-356/368, 4-5=-440/286  
BOT CHORD 6-7=-675/549  
WEBS 3-6=-269/394, 2-6=-468/609, 4-6=-393/506

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-0, Zone3 7-0-0 to 7-10-4 zone; end vertical left 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 7=115, 5=195.

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Joaquin Velez PE No.68182  
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Chesterfield, MO 63017  
Date:

October 24,2025

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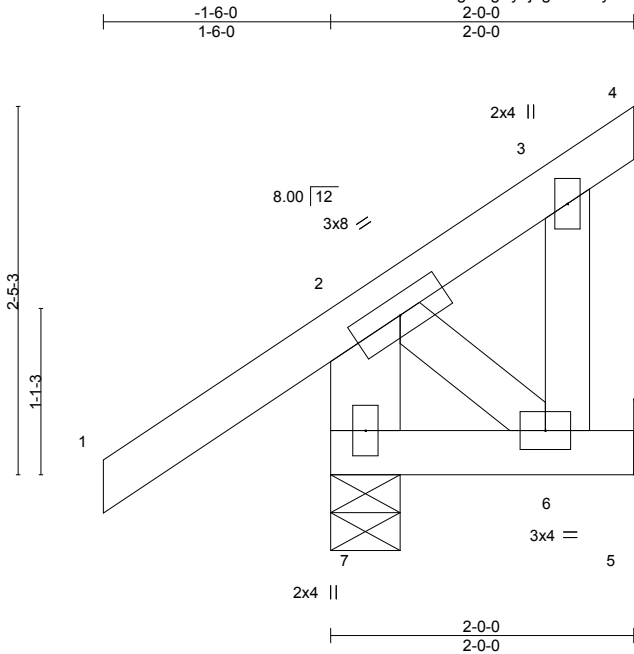
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959576
4894417	T23	Jack-Closed	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:19 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-5E1ZuSnwHlkYaE?42CRo1UQSUelaVY\_0qgHt6byQXY



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00 6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MP					Weight: 15 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-7: 2x6 SP No.2

**BRACING-**

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

**REACTIONS.**

(size) 7=0-5-8, 5=Mechanical  
Max Horz 7=90(LC 12)  
Max Uplift 7=-65(LC 12), 5=-54(LC 12)  
Max Grav 7=225(LC 1), 5=49(LC 10)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-6=-66/293

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-12, Zone1 1-6-12 to 2-0-0 zone; end vertical left 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 7, 5.

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Chesterfield, MO 63017  
Date:

October 24,2025

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959577
4894417	T23G	Monopitch Supported Gable	1	1	Job Reference (optional)	

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ID:5r2frgbregYyobjgsnrYiDyVSr7-ZQax5ooY23sPCOaGcwY1ahzdp2fbE?J93K1Re1yQXYX

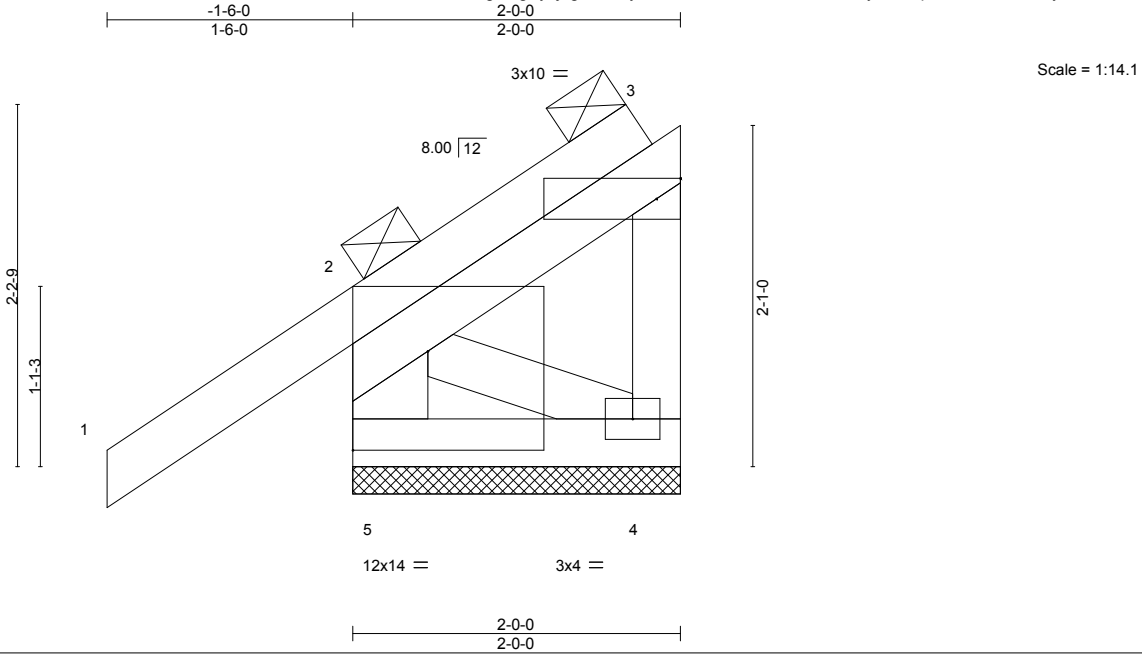


Plate Offsets (X,Y)--		[5:Edge,0-7-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.01 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.01 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P		Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
2-5: 2x6 SP No.2	

REACTIONS.	(size) 5=2-0-0, 4=2-0-0
	Max Horz 5=95(LC 12)
	Max Uplift 5=-70(LC 12), 4=-46(LC 12)
	Max Grav 5=224(LC 1), 4=35(LC 10)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-5=-208/313
BOT CHORD	4-5=-251/81
WEBS	2-4=-90/277

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 5, 4.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017  
Date:

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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959579
4894417	T25	KINGPOST	15	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:21 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-1d8JJ8pBpN\_GqY9TAdTG6vWntSwxzO8IH\_m\_BUyQXYW  
6-0-0  
6-0-0

Scale = 1:13.5

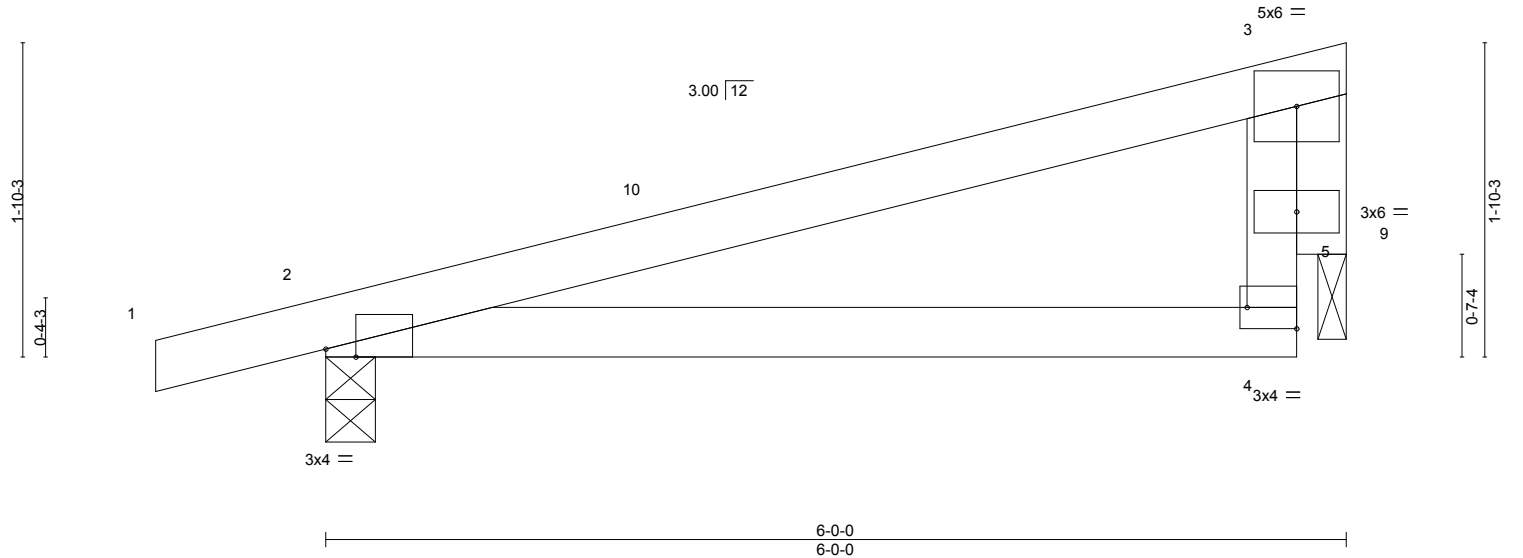


Plate Offsets (X,Y)-- [2:0-2-2,Edge], [4:Edge,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.06 4-8 >999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	0.05 4-8 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	-0.00 2 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR					Weight: 22 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-0-13 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 9=0-2-0
	Max Horz 2=86(LC 8)
	Max Uplift 2=-228(LC 8), 9=-158(LC 8)
	Max Grav 2=301(LC 1), 9=204(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-253/306
BOT CHORD	2-4=-356/229

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-0-0 to 2-0-0, Zone1 2-0-0 to 5-6-12 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=228, 9=158.

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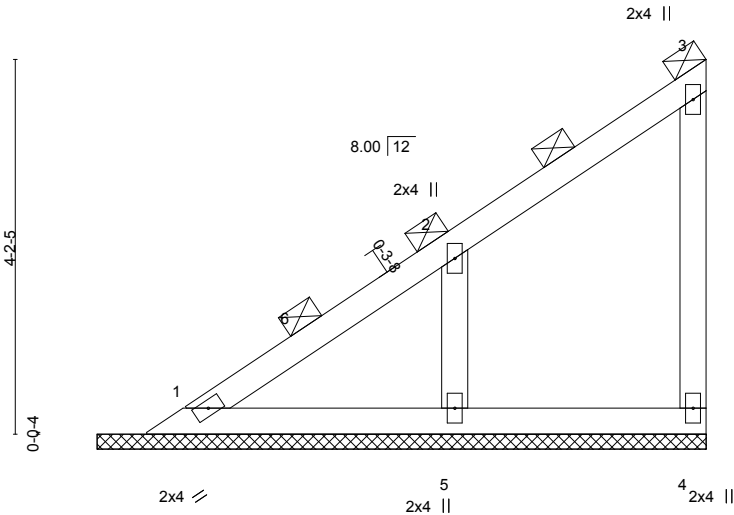
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.
4894417	V01	GABLE	2	1	T38959580
Job Reference (optional)					

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8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:21 2025 Page 1

ID:5r2frgbregYyobjgsnrYiDyVSr7-1d8JJ8pBpN\_GqY9TAdTG6vWrwSz7zS9IH\_m\_BUyQXYW



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	-	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						
									Weight: 28 lb FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

**REACTIONS.** (size) 1=6-9-12, 4=6-9-12, 5=6-9-12  
Max Horz 1=188(LC 12)  
Max Uplift 4=-55(LC 12), 5=-203(LC 12)  
Max Grav 1=104(LC 21), 4=86(LC 19), 5=317(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-284/140  
WEBS 2-5=-246/362

- 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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-1 to 4-0-0, Zone1 4-0-0 to 6-8-0 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) Gable requires continuous bottom chord bearing.
  - 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 4 except (jt=lb) 5=203.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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October 24,2025

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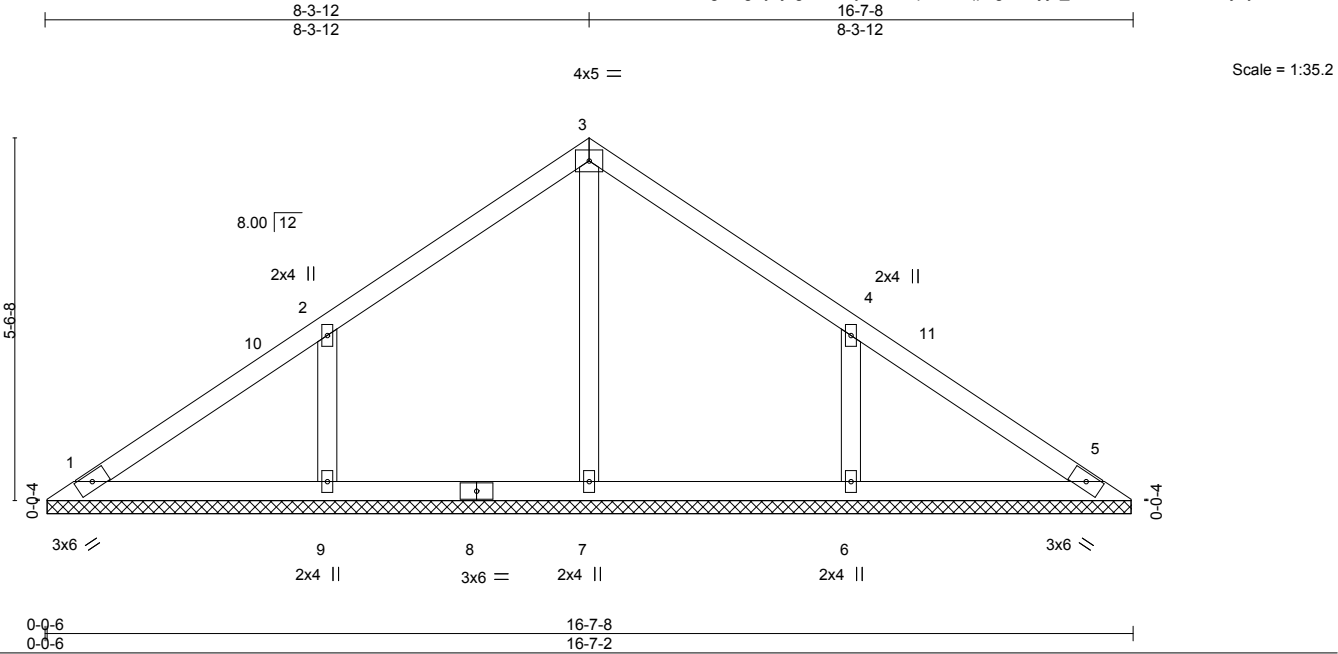
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16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959581
4894417	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:22 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-VpihWUqpag67RijfL\_Vf62?xrJVivhSWeWXjwyQXYV



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S					Weight: 67 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

All bearings 16-6-12.  
(lb) - Max Horz 1=166(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=272(LC 12), 6=272(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=416(LC 19), 6=416(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-9=-320/289, 4-6=-320/289

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 8-3-12, Zone2 8-3-12 to 12-3-12, Zone1 12-3-12 to 16-1-11 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) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=272, 6=272.

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.

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Chesterfield, MO 63017  
Date:

October 24,2025

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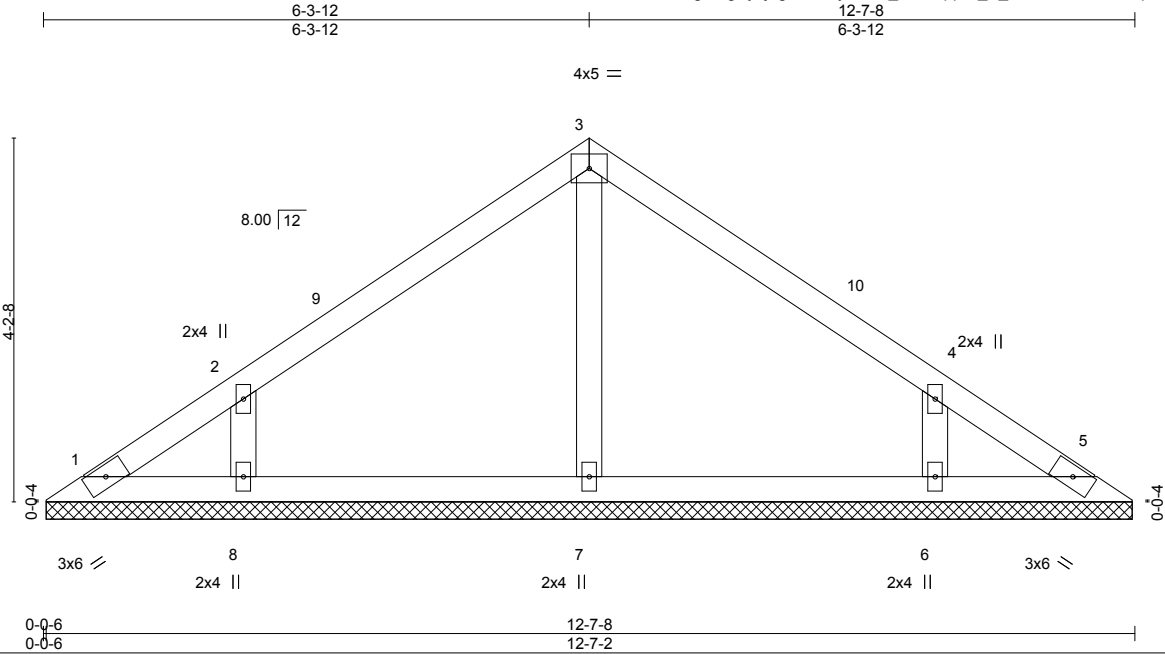
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959582
4894417	V03	Valley	1	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:23 2025 Page 1  
ID:5r2frgbregYyobjgsnrYiDyVSr7-\_?G3kqqRL\_E\_3rlrH2VkBKbB7FfpRMvblIF5FMMyQXYU



Scale = 1:26.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S					Weight: 48 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

All bearings 12-6-12.  
(lb) - Max Horz 1=-124(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-220(LC 12), 6=-220(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1), 8=330(LC 19), 6=330(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-8=-266/309, 4-6=-266/309

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 6-3-12, Zone2 6-3-12 to 10-3-12, Zone1 10-3-12 to 12-1-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=220, 6=220.

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Chesterfield, MO 63017  
Date:

October 24,2025

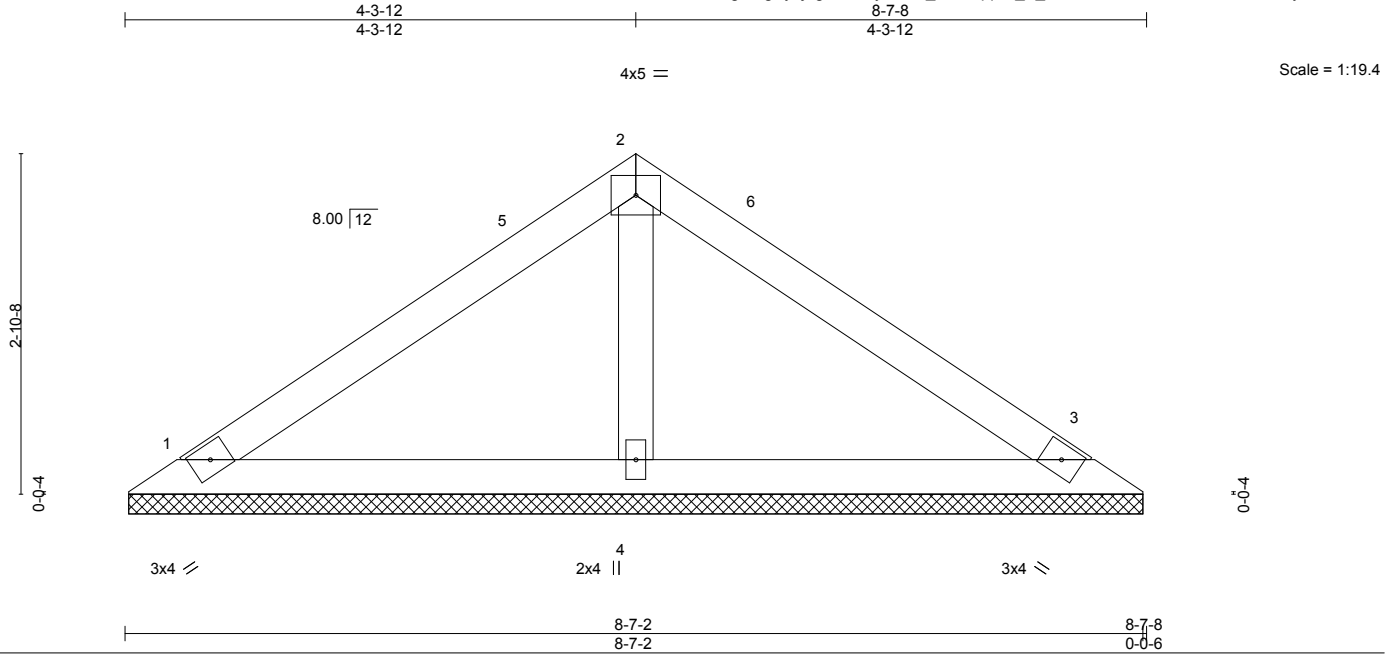
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Job	Truss	Truss Type	Qty	Ply	CURASCO RES.	T38959583
4894417	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Thu Oct 23 12:18:23 2025 Page 1  
ID:5r2frgbregYyojbgsnrYiDyVSr7-?G3kqqRL\_E\_3lrH2VkBKb9nFeQRNOblIF5FMMyQXYU



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						Weight: 30 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 1=8-6-12, 3=8-6-12, 4=8-6-12  
Max Horz 1=-81(LC 8)  
Max Uplift 1=-64(LC 12), 3=-75(LC 13), 4=-83(LC 12)  
Max Grav 1=151(LC 1), 3=153(LC 20), 4=311(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**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=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 4-3-12, Zone3 4-3-12 to 8-1-11 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) Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 3, 4.

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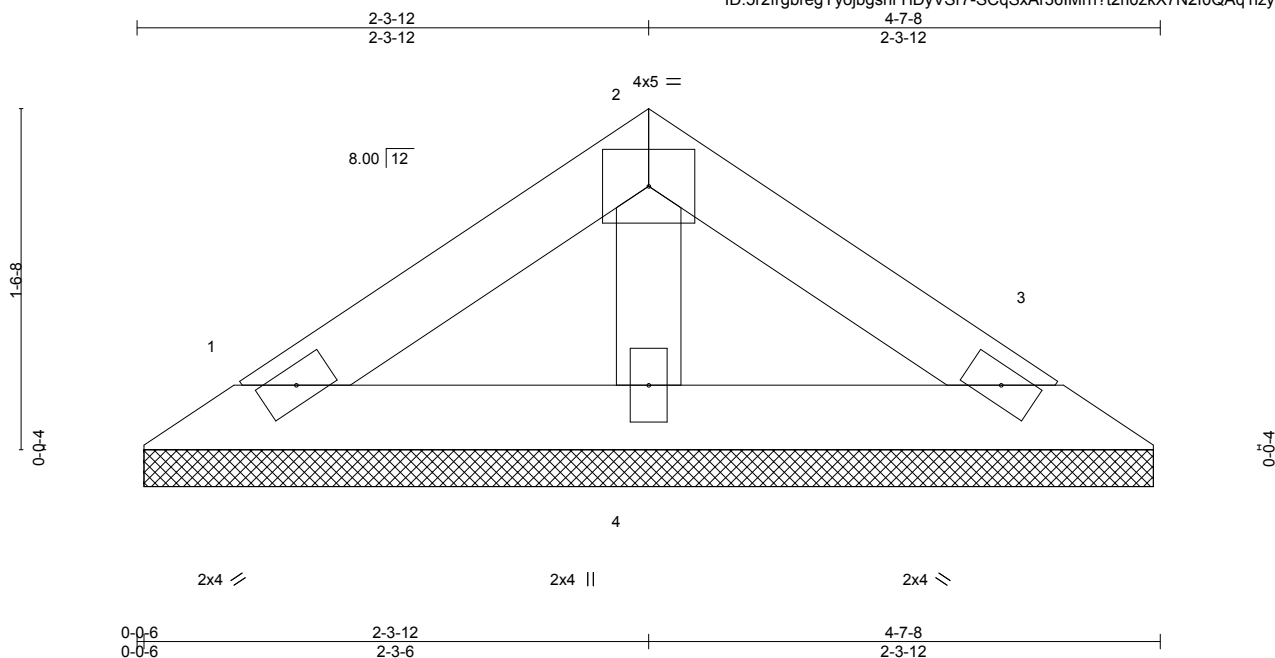
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<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.11	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P		Weight: 15 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 4-7-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 1=4-6-12, 3=4-6-12, 4=4-6-12  
 Max Horz 1=-39(LC 8)  
 Max Uplift 1=-37(LC 12), 3=-42(LC 13), 4=-28(LC 12)  
 Max Grav 1=79(LC 1), 3=79(LC 1), 4=135(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDF=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCPI=0.18; MWFRS (envelope) gable end 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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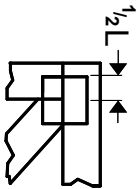
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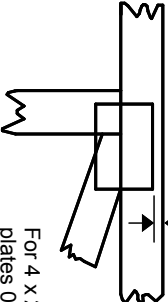
# Symbols

## 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 -  $\frac{1}{16}$ " from outside edge of truss.



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


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

## PLATE SIZE

4 X 4

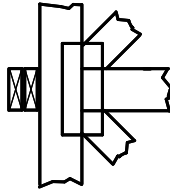
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



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

**Industry Standards:**  
ANSI/TP11: 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.


The diagram illustrates a truss structure with joints numbered 1 through 4. A dimension line at the top indicates a length of 6'-4 3/8" for the entire truss, with a note stating "dimensions shown in ft.-in.-sixteenths (Drawings not to scale)".

Joint ID is indicated as 3 typ. (typical).

The truss is divided into sections labeled TOP CHORDS and BOTTOM CHORDS. The top chord is labeled C1-2, C2-3, C3-4, and C4-5. The bottom chord is labeled C7-8 and C6-7. The webs are labeled W1-2, W2-3, W3-4, and W4-5. The truss is also labeled with joint numbers 1, 2, 3, and 4.

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.

**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 1 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.