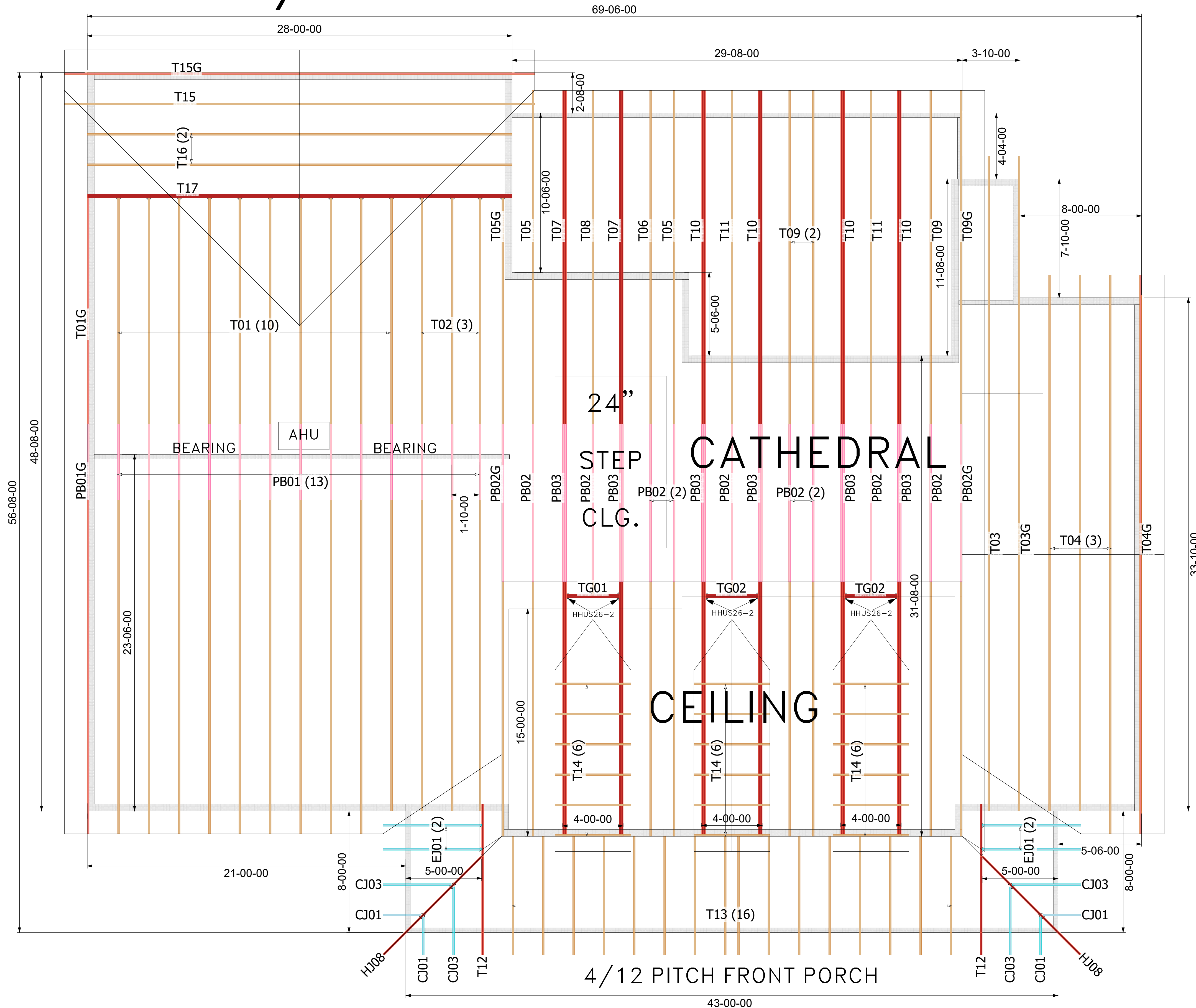


6/12 PITCH – 18” OH



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

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

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

ROOF LOADING: TCLL: 20 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 B
OCCUPANCY CATEGORY II
WIND LOAD 130 MPH
WIND IMPORTANCE FACTOR 1.00

ROOF PITCH: 6/12 - 4/12 - 3/12
CEILING PITCH: 4.3/12
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE: FBC 2023

BEARING HEIGHT SCHEDULE	

BUILDER:	
Amira Builders	
MODEL:	CUSTOM
ELEV:	GABLE
ADDRESS:	TBD
LOT / BLOCK:	N/A
SUBDIVISION:	MILLIKEN RES.
CITY:	Alachua
DRAWN BY:	Holloway, Kim
JOB # :	5164921
DATE: 12/31/2025	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: 5164921 - MILLIKEN RES.

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

Site Information:

Customer Info: AMIRA BLDRS. Project Name: Milliken Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Alachua Cty State: FL

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

Name: License #:
Address: State:
City:

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 34 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	T39680918	CJ01	1/2/26	15	T39680932	T04	1/2/26
2	T39680919	CJ03	1/2/26	16	T39680933	T04G	1/2/26
3	T39680920	EJ01	1/2/26	17	T39680934	T05	1/2/26
4	T39680921	HJ08	1/2/26	18	T39680935	T05G	1/2/26
5	T39680922	PB01	1/2/26	19	T39680936	T06	1/2/26
6	T39680923	PB01G	1/2/26	20	T39680937	T07	1/2/26
7	T39680924	PB02	1/2/26	21	T39680938	T08	1/2/26
8	T39680925	PB02G	1/2/26	22	T39680939	T09	1/2/26
9	T39680926	PB03	1/2/26	23	T39680940	T09G	1/2/26
10	T39680927	T01	1/2/26	24	T39680941	T10	1/2/26
11	T39680928	T01G	1/2/26	25	T39680942	T11	1/2/26
12	T39680929	T02	1/2/26	26	T39680943	T12	1/2/26
13	T39680930	T03	1/2/26	27	T39680944	T13	1/2/26
14	T39680931	T03G	1/2/26	28	T39680945	T14	1/2/26

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

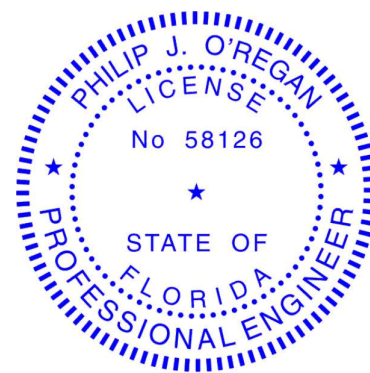
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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: ORegan, Philip

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

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



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

January 2, 2026

ORegan, Philip

1 of 2

RE: 5164921 - MILLIKEN RES.

MiT ek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

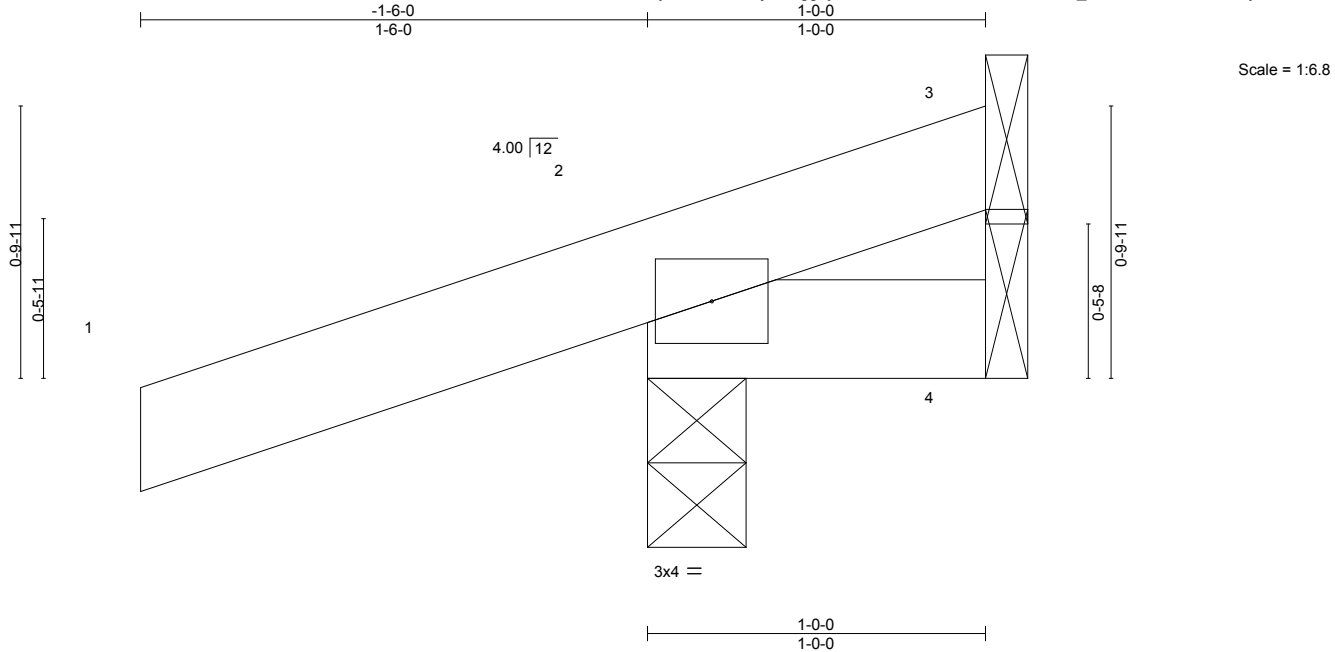
Site Information:

Customer Info: AMIRA BLDRS. Project Name: Milliken Res. Model: Custom
 Lot/Block: N/A Subdivision: N/A
 Address: TBD, TBD
 City: Alachua Cty State: FL

No.	Seal#	Truss Name	Date
29	T39680946	T15	1/2/26
30	T39680947	T15G	1/2/26
31	T39680948	T16	1/2/26
32	T39680949	T17	1/2/26
33	T39680950	TG01	1/2/26
34	T39680951	TG02	1/2/26

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680918
5164921	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. Wed Dec 31 10:38:22 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-n9QELNH7H?OGIII6ES5Y_hV31xxdzZDt5hMSvny3Ta?



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 0.17	Vert(LL)	0.00 7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00 7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP					Weight: 6 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=38(LC 8)
Max Uplift 3=-8(LC 1), 2=-132(LC 8), 4=-21(LC 1)
Max Grav 3=9(LC 8), 2=198(LC 1), 4=17(LC 8)

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 B; 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 8 lb uplift at joint 3, 132 lb uplift at joint 2 and 21 lb uplift at joint 4.

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

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

January 2,2026

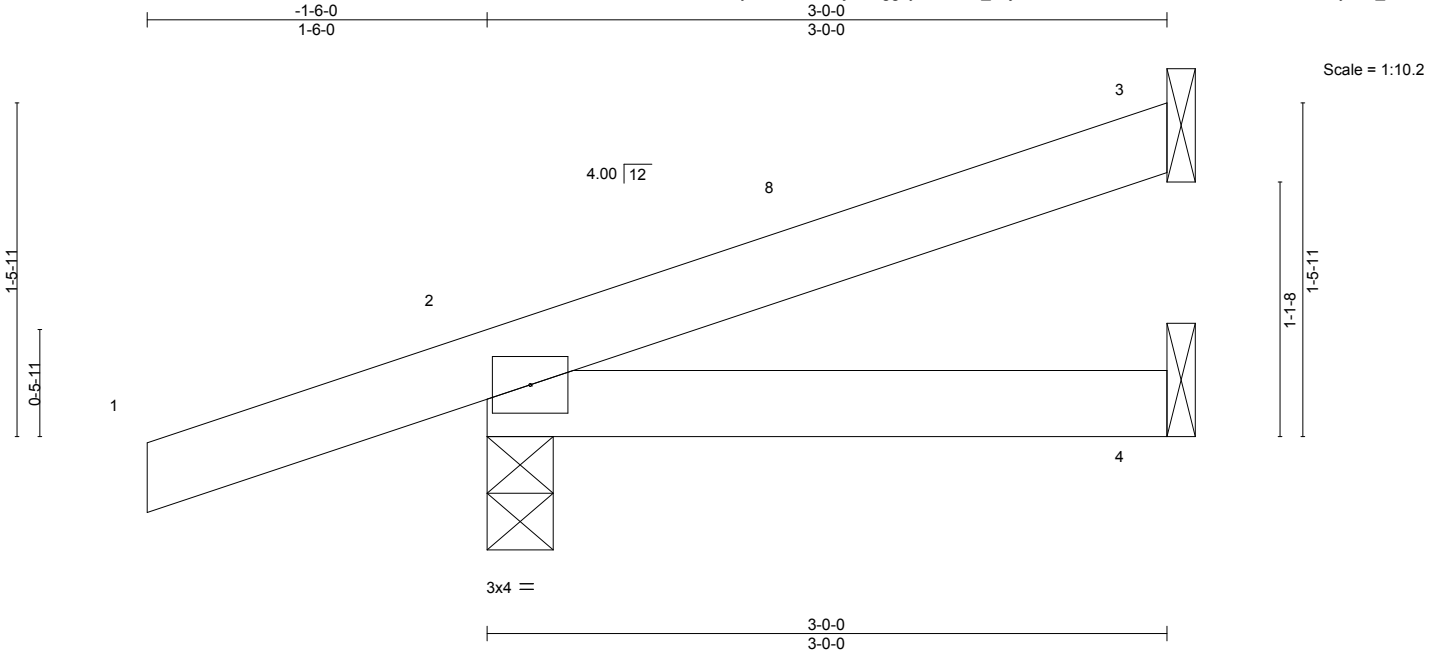
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680919
5164921	CJ03	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. Wed Dec 31 10:38:23 2025 Page 1
ID:0vVlbySHsNMuVErRG?ggxy3Wth-FL_cYjlm2JW6NSKJo9dnWv2EnLGNi0T0KL5?SDy3Ta_



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 0.17	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TP12014		Matrix-MP						
								Weight: 12 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=64(LC 8)
Max Uplift 3=-38(LC 8), 2=-136(LC 8), 4=-19(LC 9)
Max Grav 3=67(LC 1), 2=230(LC 1), 4=50(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 B; 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 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 38 lb uplift at joint 3, 136 lb uplift at joint 2 and 19 lb uplift at joint 4.

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

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

January 2,2026

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

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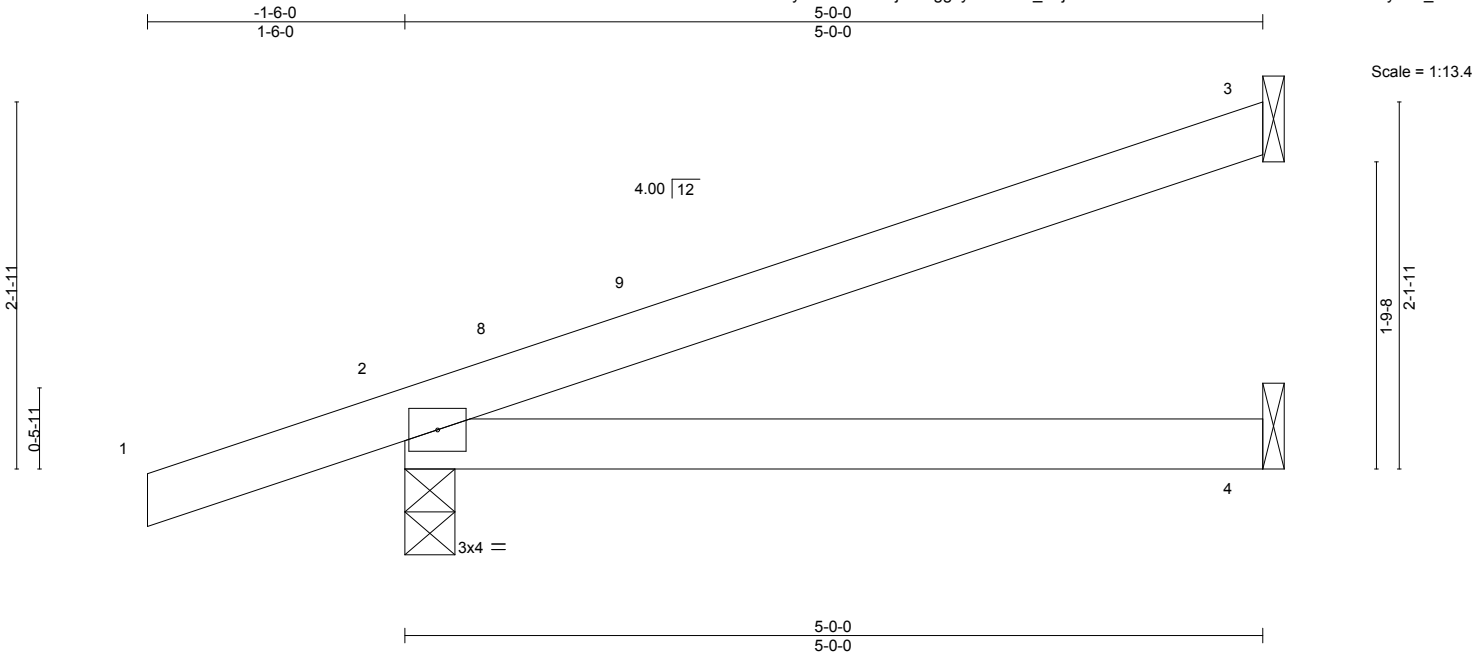
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680920
5164921	EJ01	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. Wed Dec 31 10:38:23 2025 Page 1

ID:0vVlbySHsNMuVErjRG?ggxy3Wth-FL_cYjlm2JW6NSKJo9dnWv2CdLEdi0T0KL5?SDy3Ta_



LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31		Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.25		Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=89(LC 8)
Max Uplift 3=-73(LC 8), 2=-167(LC 8), 4=-35(LC 8)
Max Grav 3=126(LC 1), 2=301(LC 1), 4=90(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 B; 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 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 73 lb uplift at joint 3, 167 lb uplift at joint 2 and 35 lb uplift at joint 4.

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

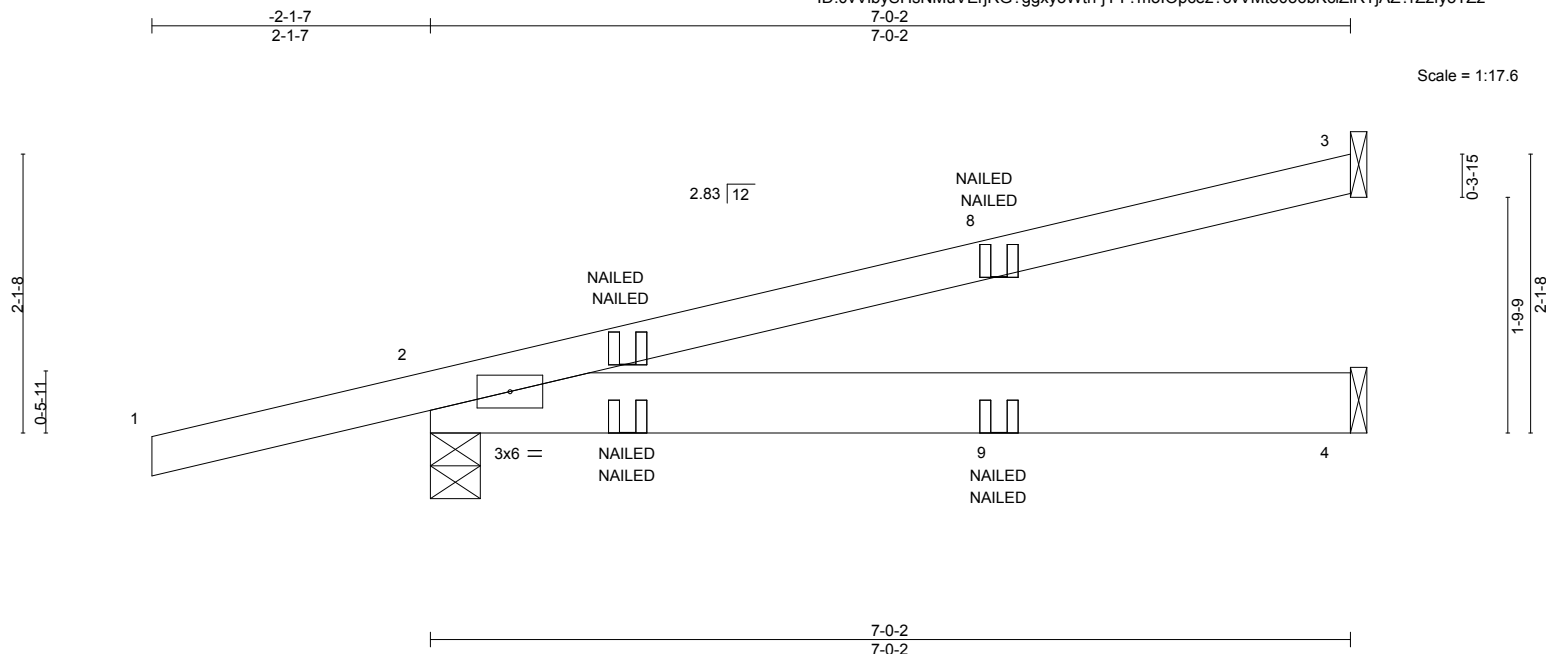
Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 2,2026

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

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com



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 0.49	Vert(LL) -0.04 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.26	Vert(CT) -0.06 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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 Horiz 2=89(LC 25)
Max Uplift 3=-77(LC 8), 2=-163(LC 4), 4=-55(LC 5)
Max Grav 3=144(LC 1), 2=328(LC 1), 4=130(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 B; Encl., GCp=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 77 lb uplift at joint 3, 163 lb uplift at joint 4 and 55 lb uplift at joint 4.
- 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: 6=59(F=29, B=29) 7=60(F=30, B=30) 9=-4(F=-2, B=-2)

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

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

January 2, 2026

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

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MiTek®

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:24 2025 Page 1

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

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680923
5164921	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. Wed Dec 31 10:38:25 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-Bk6NzOJOawmqcmThwafFbK7cN9yPAwzJofa6V5y3TZy

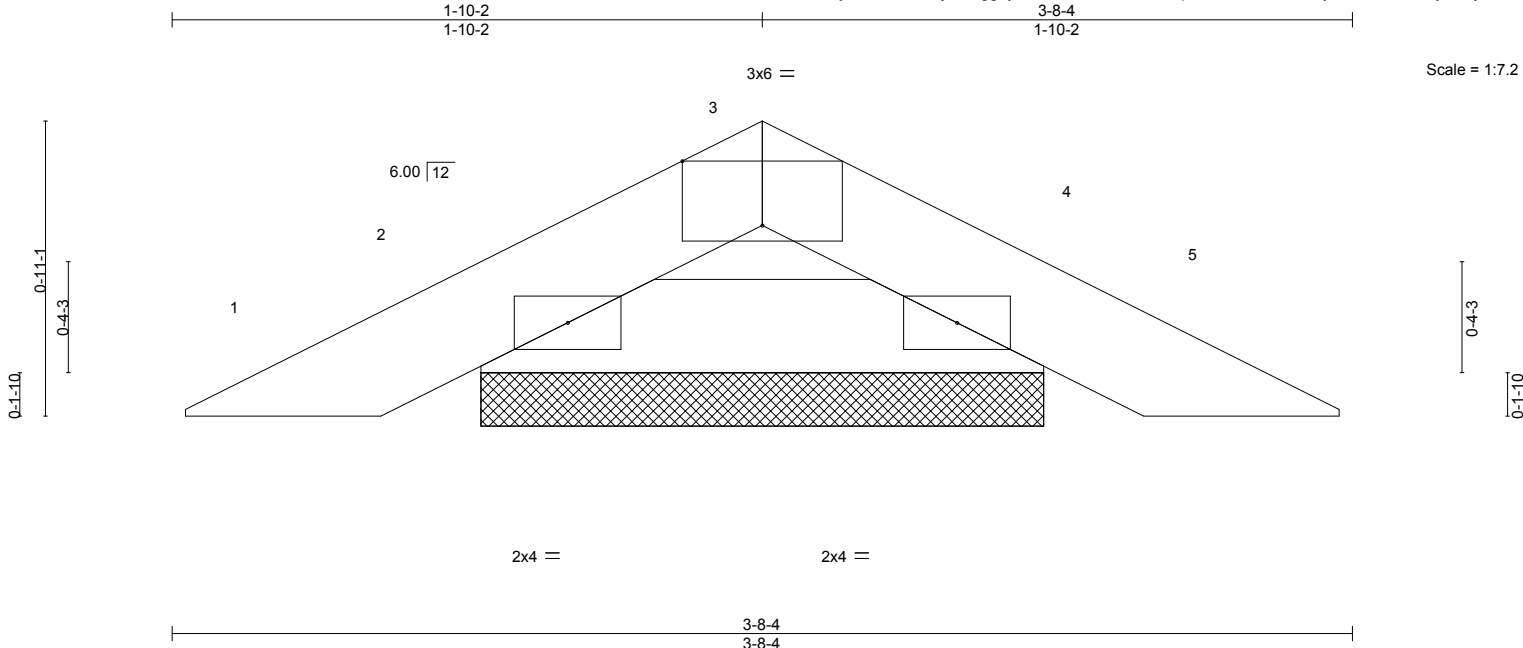


Plate Offsets (X,Y)--		[3:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.04
TCDL 10.0	Lumber DOL	1.25	BC 0.03
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 4 n/r 120
			Vert(CT) -0.00 4 n/r 120
			Horz(CT) 0.00 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 9 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=1-9-2, 4=1-9-2
Max Horz 2=-12(LC 17)
Max Uplift 2=-34(LC 12), 4=-34(LC 13)
Max Grav 2=107(LC 1), 4=107(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 B; 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 34 lb uplift at joint 2 and 34 lb uplift at joint 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

January 2,2026

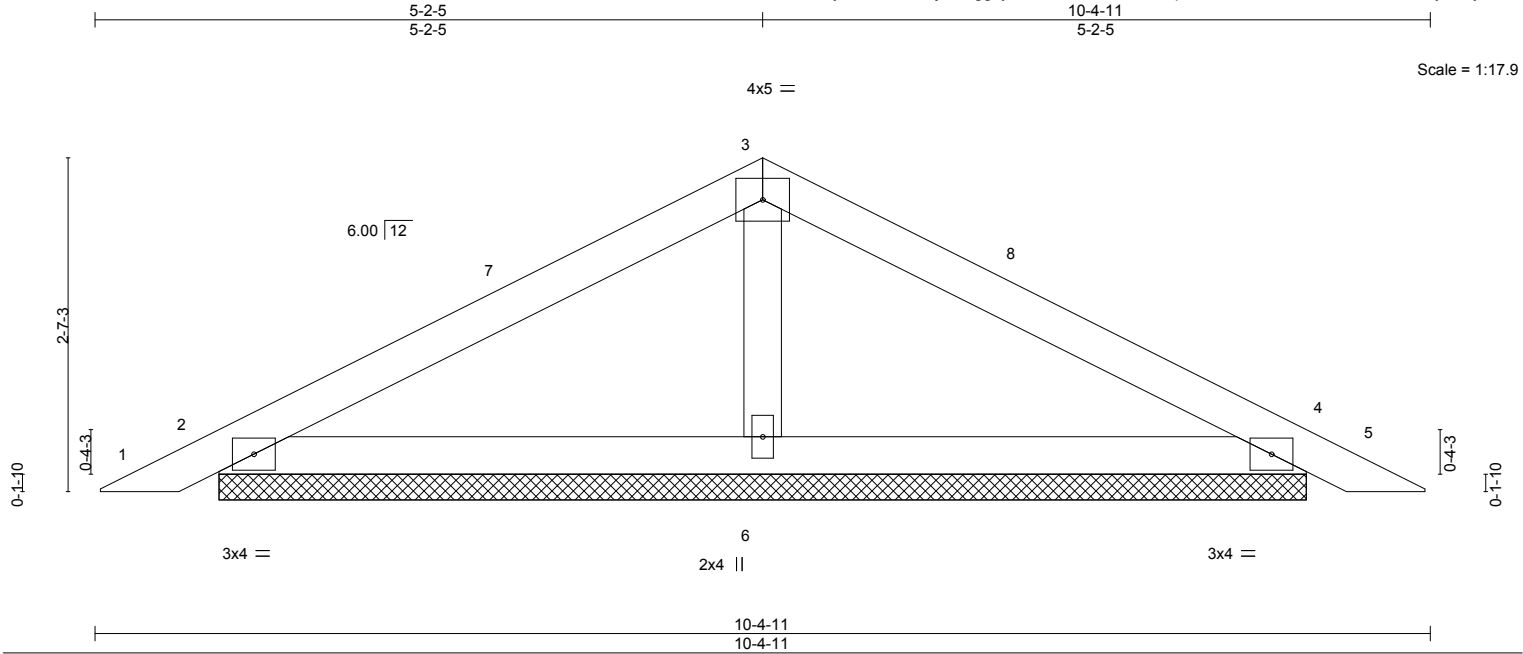
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680924
5164921	PB02	Piggyback	9	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:25 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-Bk6NzOJ0awmqcmThwafBk7Zh9wCAwFJofa6V5y3TZy



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)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.18	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-S						Weight: 32 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=8-5-8, 4=8-5-8, 6=8-5-8
Max Horz 2=40(LC 12)
Max Uplift 2=65(LC 12), 4=73(LC 13), 6=61(LC 12)
Max Grav 2=196(LC 25), 4=196(LC 26), 6=363(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; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 5-2-5, Zone2 5-2-5 to 9-5-1, Zone1 9-5-1 to 10-0-8 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 65 lb uplift at joint 2, 73 lb uplift at joint 4 and 61 lb uplift at joint 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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Date:

January 2,2026

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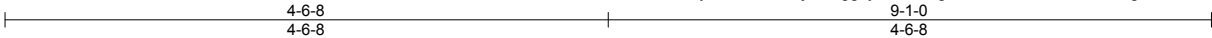
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680925
5164921	PB02G	GABLE	2	1	Job Reference (optional)	

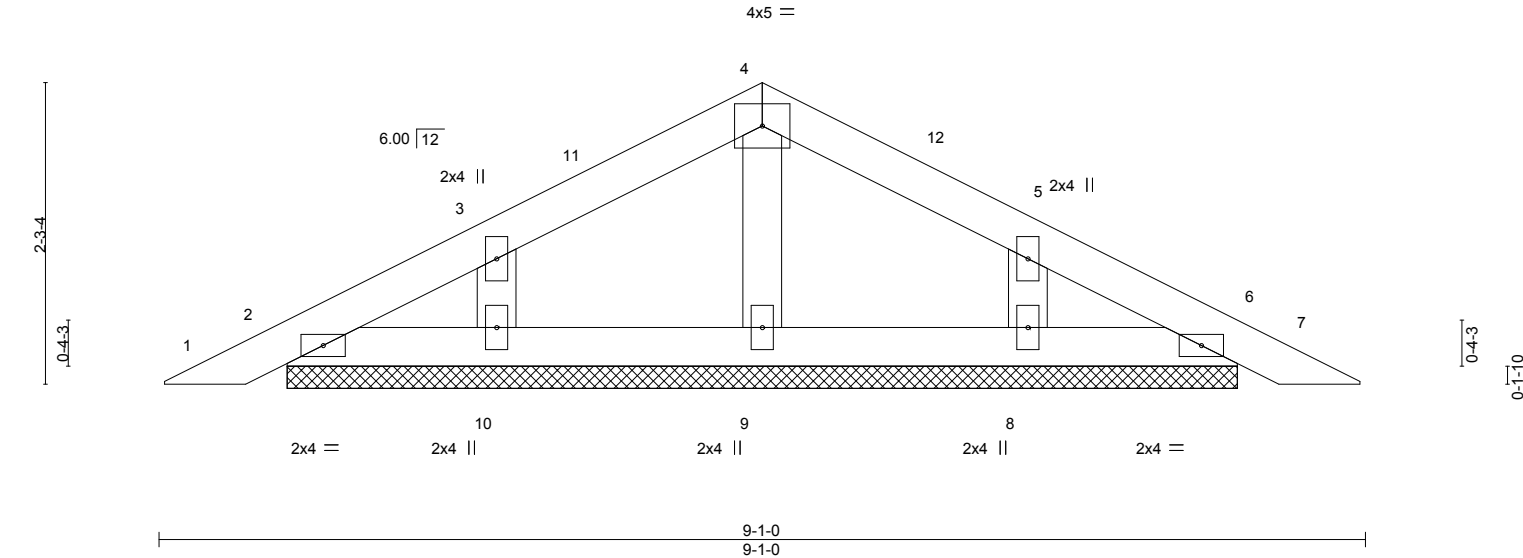
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8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:26 2025 Page 1

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Scale = 1:17.3



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 0.05	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		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.

All bearings 7-1-14.
(lb) - Max Horz 2=35(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-6-8, Zone3 4-6-8 to 8-8-13 zone;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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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, 6, 9, 10, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

January 2,2026

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	PB03	Piggyback	6	2	

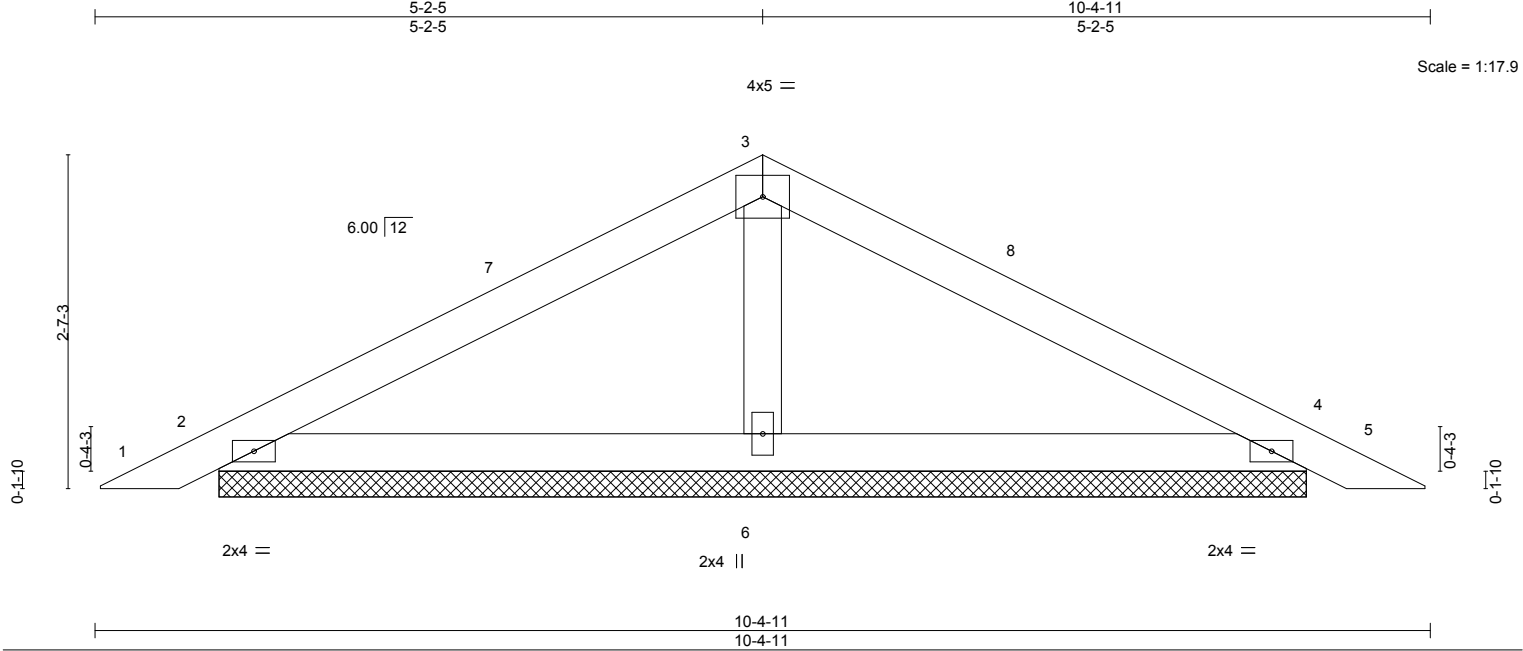
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8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:26 2025 Page 1

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T39680926

Job Reference (optional)



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 0.11	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 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S						Weight: 65 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. (size) 2=8-5-8, 4=8-5-8, 6=8-5-8
Max Horz 2=40(LC 12)
Max Uplift 2=65(LC 12), 4=73(LC 13), 6=61(LC 12)
Max Grav 2=196(LC 25), 4=196(LC 26), 6=363(LC 1)

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

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-4-3 to 3-4-3, Zone1 3-4-3 to 5-2-5, Zone2 5-2-5 to 9-5-1, Zone1 9-5-1 to 10-0-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 6) Gable requires continuous bottom chord bearing.
 - 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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Date:

January 2,2026

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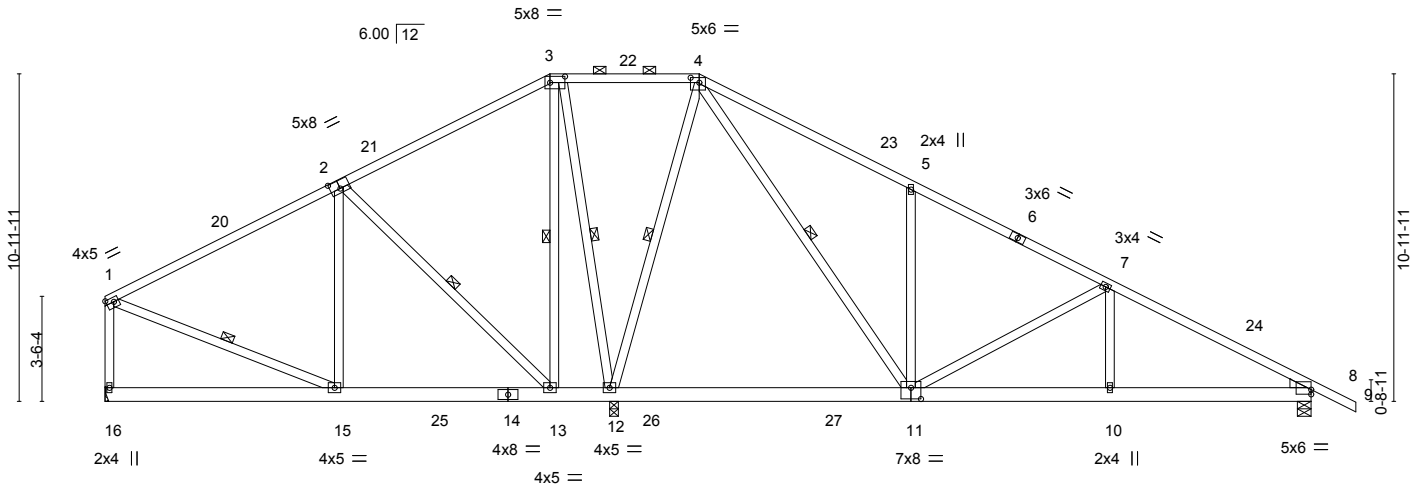
Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680927
5164921	T01	Piggyback Base	10	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:27 2025 Page 1
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Scale = 1:77.2



	7-10-0	14-10-14	17-0-10	27-0-0	33-8-0	40-4-14
	7-10-0	7-0-14	2-1-12	9-11-6	6-8-0	6-8-14

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-4-0,0-3-4], [3:0-6-0,0-2-8], [4:0-3-8,0-2-0], [8:Edge,0-1-14], [11:0-4-0,0-4-8]

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 0.87	Vert(LL)	-0.15 11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.30 11-12	>945	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.79	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 295 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-11: 2x4 SP No.2	WEBS 1 Row at midpt 2-13, 3-13, 3-12, 4-12, 4-11, 1-15
WEDGE Right: 2x4 SP No.3	

REACTIONS. (size) 16=Mechanical, 12=0-3-8, 8=0-5-8
Max Horz 16=-259(LC 13)
Max Uplift 16=-104(LC 12), 12=-655(LC 13), 8=-262(LC 13)
Max Grav 16=413(LC 27), 12=2953(LC 2), 8=909(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-288/229, 2-3=-39/608, 3-4=-2/605, 4-5=-760/413, 5-7=-743/253, 7-8=-1216/334, 1-16=-343/121
BOT CHORD 13-15=-169/314, 12-13=-491/410, 11-12=-266/303, 10-11=-197/1021, 8-10=-197/1021
WEBS 2-15=0/408, 2-13=-735/287, 3-12=-695/229, 4-12=-1286/455, 4-11=-542/1515, 5-11=-445/297, 7-11=-483/227

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-2-4, Zone1 4-2-4 to 14-10-14, Zone3 14-10-14 to 19-10-14, Zone2 19-10-14 to 25-7-7, Zone1 25-7-7 to 41-10-14 zone; end vertical 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=104, 12=655, 8=262.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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

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Date:

January 2,2026

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T01	Piggyback Base	10	1	T39680927
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, 3-4=-60, 4-9=-60, 12-16=-20, 11-12=-80(F=-60), 11-17=-20

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680928
5164921	T01G	GABLE	1	1		
Job Reference (optional)						

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8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:28 2025 Page 1

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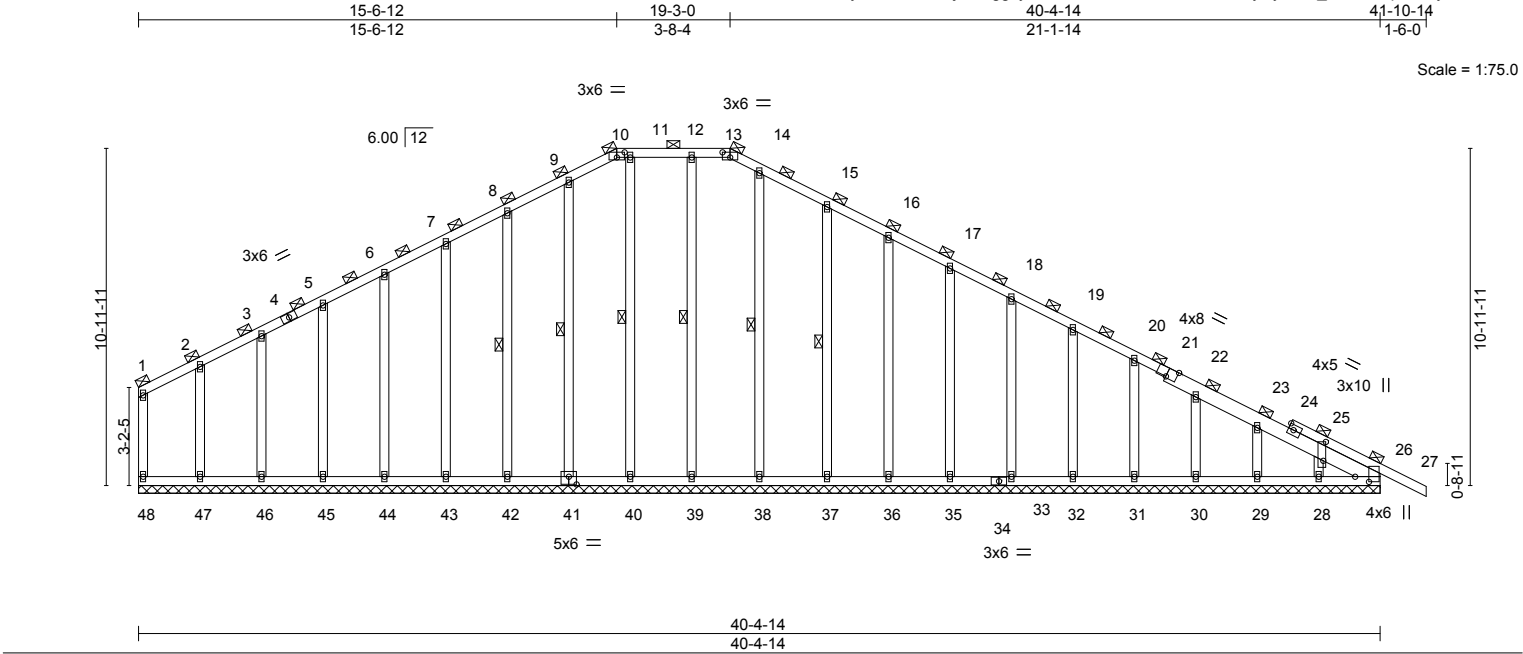


Plate Offsets (X,Y)-- [10:0-3-0,0-2-0], [13:0-3-0,0-2-0], [21:0-4-0,Edge], [25:0-7-6,0-1-0], [26:0-2-0,0-5-6], [41:0-3-0,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.14	Vert(LL)	-0.00	27	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.05	Vert(CT)	-0.01	27	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.15	Horz(CT)	0.02	26	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 324 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 21-26: 2x6 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 14-38, 15-37, 8-42, 9-41, 11-40, 12-39
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 40-4-14.
(lb) - Max Horz 48=-254(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 48, 38, 28, 29, 30, 31, 32, 33, 35, 36, 37, 47, 46, 45, 44, 43, 42, 41, 39, 26
Max Grav All reactions 250 lb or less at joint(s) 48, 38, 28, 29, 30, 31, 32, 33, 35, 36, 37, 47, 46, 45, 44, 43, 42, 41, 40, 39, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-102/262, 8-9=-122/315, 9-10=-134/344, 10-11=-126/331, 11-12=-126/331, 12-13=-126/331, 13-14=-130/329, 14-15=-129/331, 15-16=-105/275, 16-17=-88/252

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; 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) 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) 48, 38, 28, 29, 30, 31, 32, 33, 35, 36, 37, 47, 46, 45, 44, 43, 42, 41, 39, 26.
 - 12) 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2,2026

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

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

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680929
5164921	T02	Piggyback Base	3	1		
Job Reference (optional)						

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:29 2025 Page 1

ID:0vVlbySHsNMuVErjRG?ggy3Wth-4VLupmMWwe9GG5Nns9QjBmAi5Um7B6XcviHYKety3TZu

7-10-0 14-10-14 19-10-14 27-0-0 33-8-0 40-4-14

7-10-0 7-0-14 5-0-0 7-1-2 6-8-0 6-8-14

Scale = 1:76.1

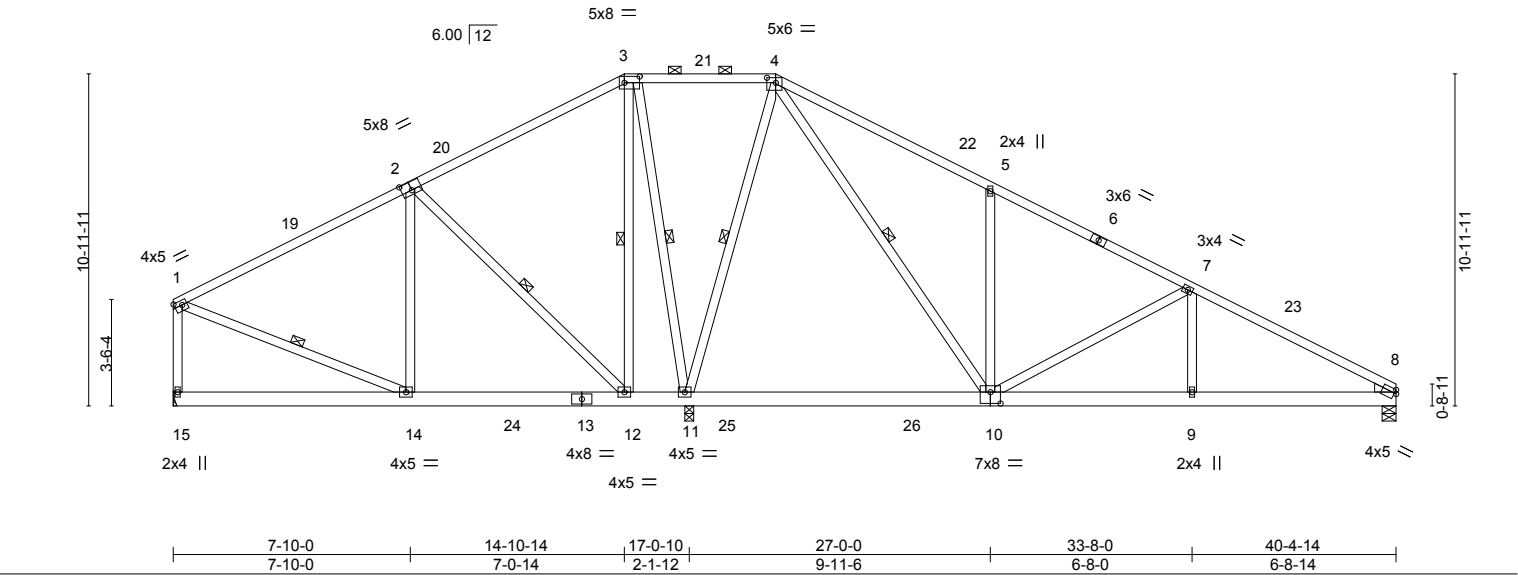


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-4-0,0-3-4], [3:0-6-0,0-2-8], [4:0-3-8,0-2-0], [8:Edge,0-1-8], [10:0-4-0,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	-0.15	10-11	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.30	10-11	>943	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	8	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 293 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 3-4.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-10: 2x4 SP No.2	WEBS 1 Row at midpt 2-12, 3-12, 3-11, 4-11, 4-10, 1-14
WEDGE Right: 2x4 SP No.3	

REACTIONS.	(size) 15=Mechanical, 11=0-3-8, 8=0-5-8
	Max Horz 15=234(LC 13)
	Max Uplift 15=103(LC 12), 11=658(LC 13), 8=223(LC 13)
	Max Grav 15=415(LC 27), 11=2947(LC 2), 8=835(LC 28)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-291/222, 2-3=-41/601, 3-4=-4/597, 4-5=-771/413, 5-7=-754/253, 7-8=-1239/340, 1-15=-345/120
BOT CHORD	12-14=-163/291, 11-12=-488/387, 10-11=-262/279, 9-10=-228/1042, 8-9=-228/1042
WEBS	2-14=0/405, 2-12=-733/287, 3-11=-690/230, 4-11=-1285/457, 4-10=-544/1519, 5-10=-444/297, 7-10=-496/234

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-2-4, Zone1 4-2-4 to 14-10-14, Zone3 14-10-14 to 19-10-14, Zone2 19-10-14 to 25-7-7, Zone1 25-7-7 to 40-4-14 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) 15=103, 11=658, 8=223.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
--------------	----------

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

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

January 2,2026

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680929
5164921	T02	Piggyback Base	3	1	Job Reference (optional)	

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:29 2025 Page 2
ID:0vVibySHsNMuVErjRG?ggxy3Wth-4VLupmMWe9GG5NnS9QjBmAi5Um7B6XcviHYKety3TZu

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-8=-60, 11-15=-20, 10-11=-80(F=-60), 10-16=-20

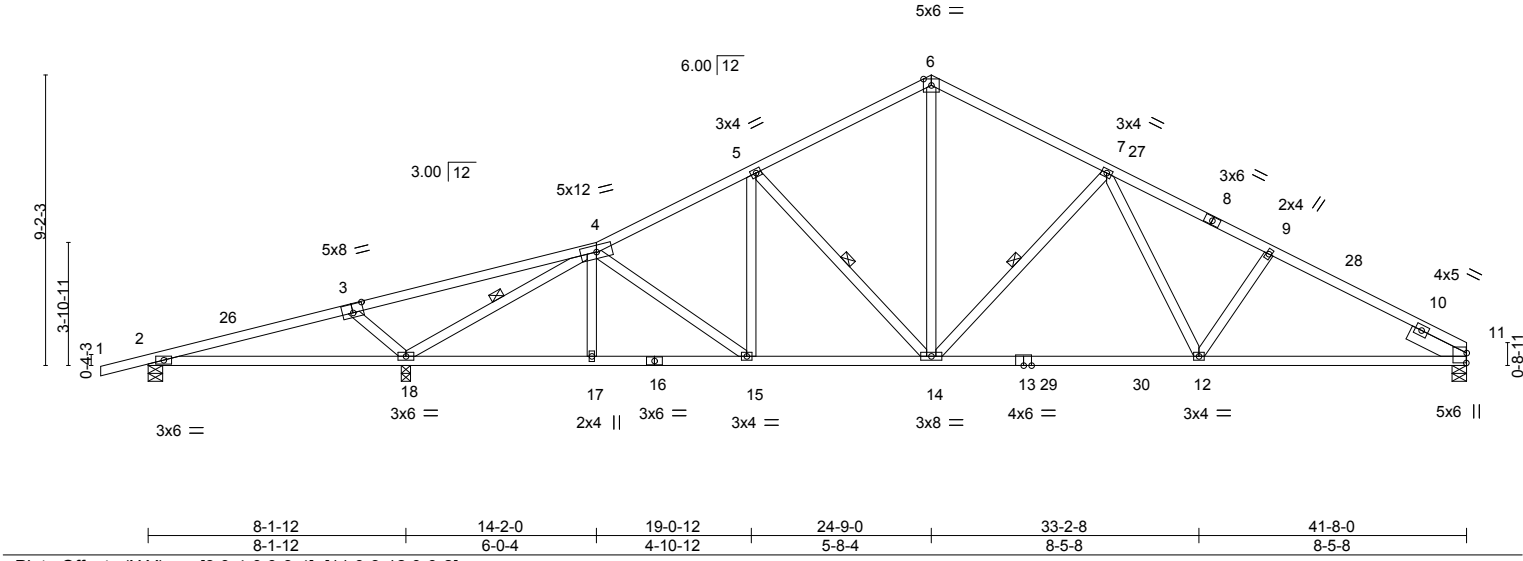
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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.sbccomponents.com)

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680930
5164921	T03	Roof Special	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:30 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-YhvG06N9PSO7jXMfi7FQINrGLATqr_t2xxltAJy3TZt
1-6-0 6-6-0 14-2-0 19-0-12 24-9-0 30-3-8 35-5-0 41-8-0
1-6-0 6-6-0 7-8-0 4-10-12 5-8-4 5-6-8 5-1-8 6-3-0
Scale = 1:72.8



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 0.86	Vert(LL)	-0.26 12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.46 12-14	>869	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.09 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 224 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x6 SP No.2 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 5-14, 7-14

REACTIONS.

(size) 2=0-5-8, 18=0-3-8, 11=0-5-8
Max Horz 2=167(LC 12)
Max Uplift 2=-140(LC 8), 18=-500(LC 12), 11=-313(LC 13)
Max Grav 2=258(LC 25), 18=2047(LC 2), 11=1401(LC 2)

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

TOP CHORD 2-3=-103/457, 3-4=-246/784, 4-5=-1840/412, 5-6=-1529/399, 6-7=-1528/410,
7-9=-2195/524, 9-11=-2318/525
BOT CHORD 2-18=-392/153, 17-18=-369/1620, 15-17=-371/1614, 14-15=-322/1602, 12-14=-256/1708,
11-12=-391/2011
WEBS 3-18=-583/294, 4-18=-2729/638, 5-14=-468/226, 6-14=-227/1047, 7-14=-610/287,
7-12=-111/509

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-0, Zone1 2-8-0 to 24-9-0, Zone2 24-9-0 to 30-7-11, Zone1 30-7-11 to 41-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2=140, 18=500, 11=313.

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

January 2,2026

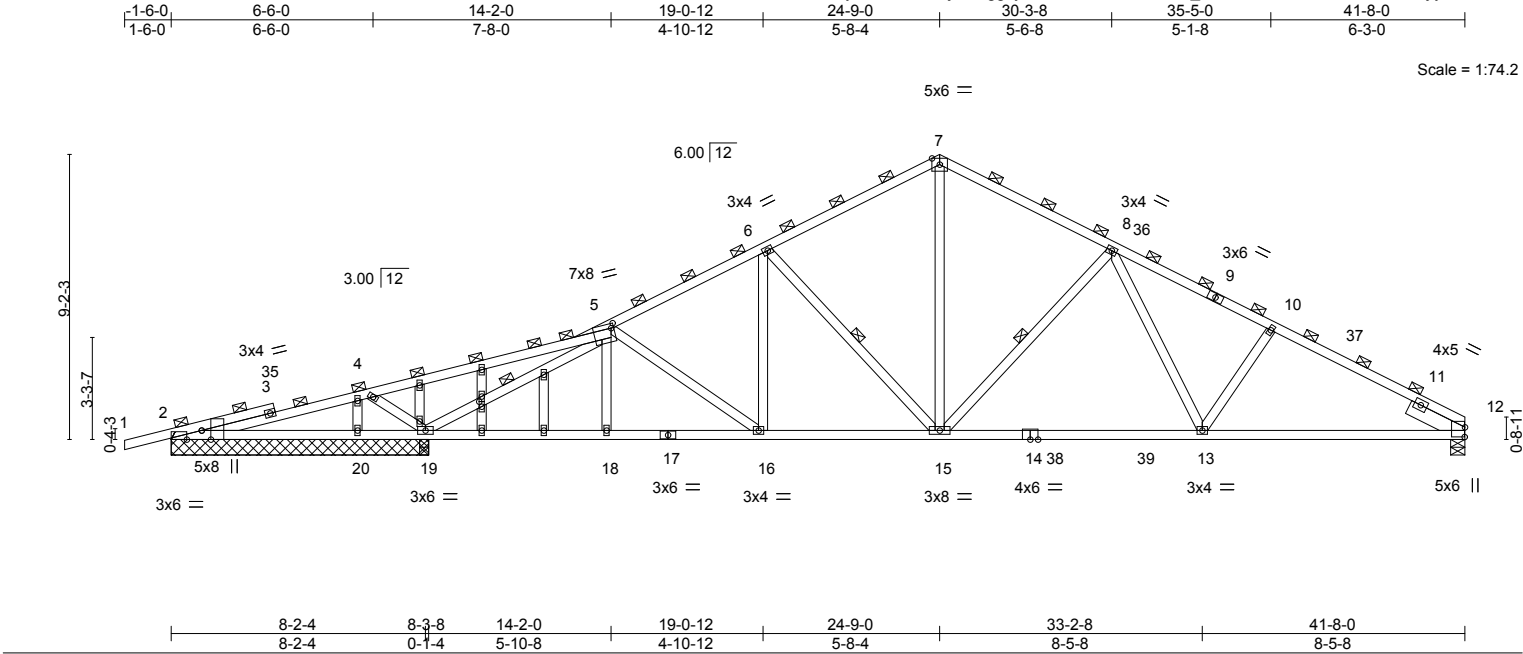
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680931
5164921	T03G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:31 2025 Page 1
ID:0vVlbySHsNMuVeRjRG?ggxy3Wth-0uTeESOnAmW_KhxrGmfrbNSsZo2aRfCAb1Rjly3TZs



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 0.81	Vert(LL)	-0.26 13-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.47 13-15	>864	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.09 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (2-8-8 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-19, 6-15, 8-15
OTHERS 2x4 SP No.3	
SLIDER Right 2x6 SP No.2 1-11-8	

REACTIONS. All bearings 8-3-8 except (jt=length) 12=0-5-8.
(lb) - Max Horz 2=167(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-145(LC 8), 19=-501(LC 12), 12=-313(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 20, 2 except 19=1954(LC 2), 19=1847(LC 1), 12=1402(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-88/535, 4-5=-279/913, 5-6=-1879/416, 6-7=-1533/400, 7-8=-1532/411,
8-10=-2198/524, 10-12=-2321/525
BOT CHORD 2-20=-467/132, 19-20=-467/132, 18-19=-397/1683, 16-18=-392/1704, 15-16=-329/1609,
13-15=-257/1711, 12-13=-391/2014
WEBS 4-19=-599/311, 5-19=-2927/685, 6-15=-473/233, 7-15=-229/1054, 8-15=-610/287,
8-13=-111/509

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-0, Zone1 2-8-0 to 24-9-0, Zone2 24-9-0 to 30-7-11, Zone1 30-7-11 to 41-8-0 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) 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 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, with BCDL = 10.0psf.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 145 lb uplift at joint 2, 501 lb uplift at joint 19, 313 lb uplift at joint 12 and 145 lb uplift at joint 2.
 - 10) 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2,2026

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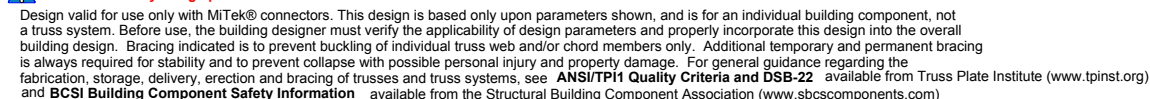
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8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:31 2025 Page 1

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:



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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T04G	Common Supported Gable	1	1	T39680933
Job Reference (optional)					

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:32 2025 Page 1

ID:0vVlbySHsNMuVErjRG?ggxy3Wth-U410RoOPx4eryrW1qYHuOown0zLjJ2WLPFn_FBy3TZr

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1-6-0

16-11-0

16-11-0

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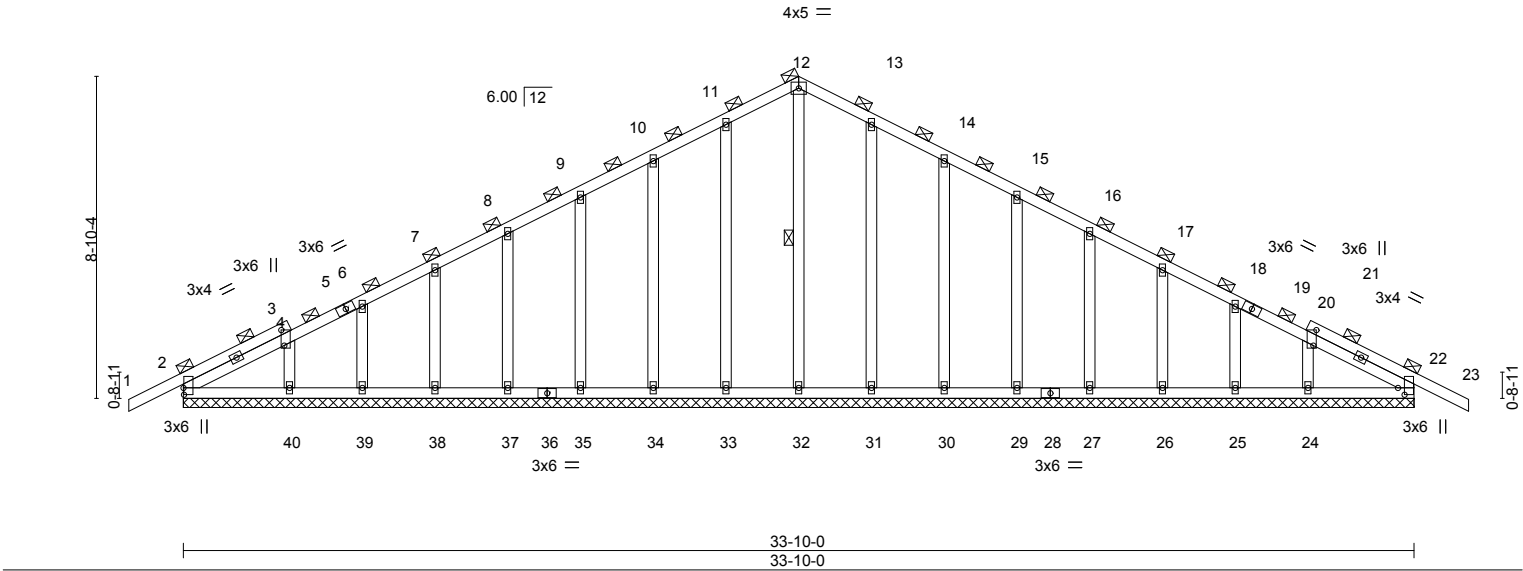


Plate Offsets (X,Y)--		[2:0-2-4,0-0-3], [3:0-5-2,0-1-0], [21:0-5-2,0-1-0], [22:0-2-4,0-2-3]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.14		Vert(LL)	-0.00	23	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.05		Vert(CT)	-0.01	23	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.14		Horz(CT)	0.01	22	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-S							Weight: 223 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 12-32

REACTIONS. All bearings 33-10-0.
(lb) - Max Horz 2=148(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 35, 37, 38, 39, 40, 31, 30, 29, 27, 26, 25, 24, 22
Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 37, 38, 39, 40, 31, 30, 29, 27, 26, 25, 24, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 11-12=-103/256, 12-13=-103/256

- 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 B; 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, 33, 34, 35, 37, 38, 39, 40, 31, 30, 29, 27, 26, 25, 24, 22.
 - 11) 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2,2026

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

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

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1-6-0	7-0-0	13-0-0	20-6-0	25-8-5	30-10-11	32-8-0	40-2-0	47-8-0
1-6-0	7-0-0	6-0-0	7-6-0	5-2-5	5-2-5	1-9-5	7-6-0	7-6-0

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.	
BOT CHORD	Rigid ceiling directly applied or 4-10-5 oc bracing.	
WEBS	1 Row at midpt	5-22, 6-20, 7-18, 8-18
	2 Rows at 1/3 pts	8-17

(size) 2=0-3-8, 22=0-5-8, 13=0-5-8
 Max Horz 2=203(LC 11)
 Max Uplift 2=-649(LC 28), 22=-617(LC 12), 13=-326(LC 13)
 Max Grav 2=103(LC 13), 22=3440(LC 2), 13=1306(LC 2)

TOP CHORD 2-3=-271/1705, 3-5=-320/2150, 5-6=-581/264, 6-7=-772/334, 7-8=-772/334,
8-9=-2310/639, 9-11=-2580/590, 11-12=-2586/633, 12-13=-1218/358

BOT CHORD 2-23=-1487/332, 22-23=-1487/332, 20-22=-988/261, 18-20=-96/428, 17-18=-122/975,
14-15=-562/2406

WEBS 3-23=-181/305, 3-22=-611/317, 5-22=-2868/539, 5-20=-251/1843, 6-20=-882/214,
6-18=-252/879, 7-18=-356/181, 8-18=-484/156, 8-17=-2429/350, 15-17=-354/2874,
8-15=-650/3826, 11-14=-455/206, 12-14=-467/2152

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCFL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-3-3, Zone1 3-3-3 to 20-6-0, Zone2 20-6-0 to 27-2-14, Zone1 27-2-14 to 30-10-11, Zone2 30-10-11 to 37-7-9, Zone1 37-7-9 to 47-5-4 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) Bearing at joint(s) 13 considers purlin to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=649, 22=617, 13=326.
- 9) 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2, 2026



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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680935
5164921	T05G	GABLE	1	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:34 2025 Page 1
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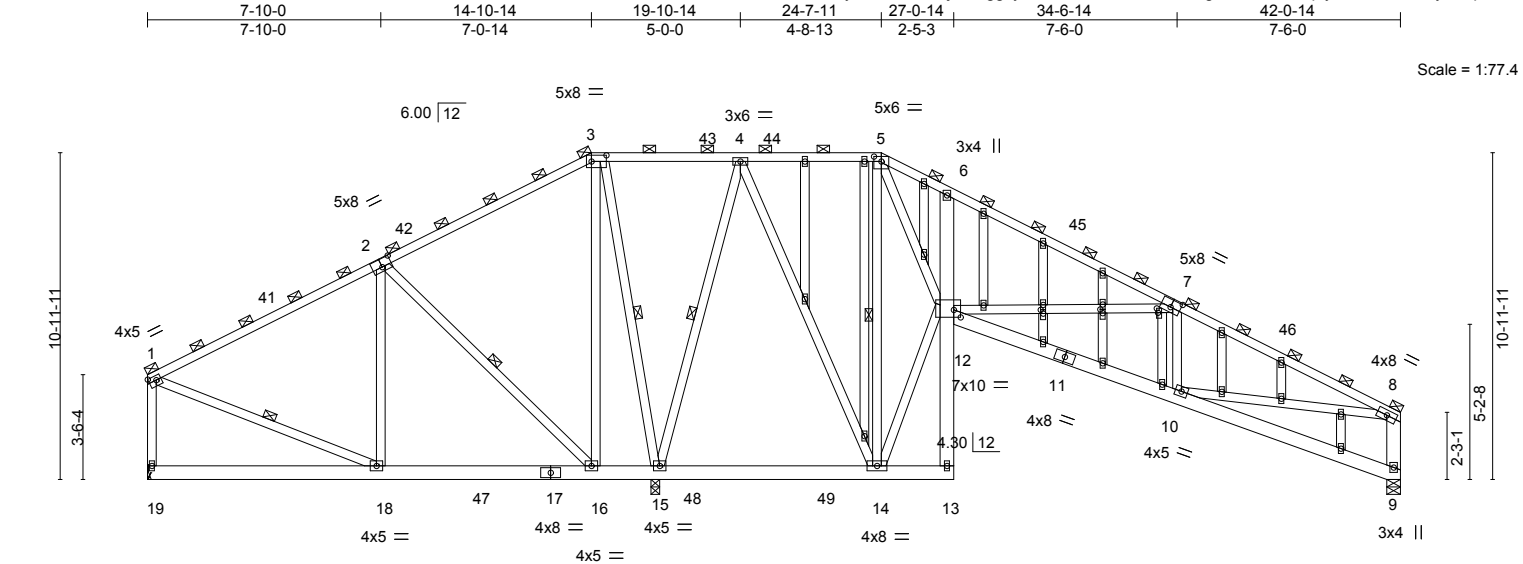


Plate Offsets (X,Y)--		[1:Edge,0-1-12], [2:0-4-0,0-3-4], [3:0-6-0,0-2-8], [5:0-3-0,0-2-0], [7:0-4-0,0-3-0], [7:0-1-12,0-0-8], [12:0-2-12,0-3-0], [29:0-1-8,0-1-0], [32:0-1-8,0-1-0]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	TC 0.83
		BC 0.34
		WB 0.88
		Matrix-MS
	DEFL.	in (loc) l/defl L/d
	Vert(LL)	-0.08 10-12 >999 240
	Vert(CT)	-0.16 10-12 >999 180
	Horz(CT)	0.09 9 n/a n/a
	PLATES	MT20
	GRIP	244/190
	Weight:	405 lb
	FT =	20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (4-4-9 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 2-16, 3-15, 4-15, 5-14, 1-18

REACTIONS.

(size) 19=Mechanical, 15=0-3-8, 9=0-5-8
Max Horz 19=-161(LC 8)
Max Uplift 19=-160(LC 26), 15=-480(LC 13), 9=-209(LC 13)
Max Grav 19=365(LC 25), 15=2792(LC 2), 9=686(LC 28)

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

TOP CHORD 1-2=-235/382, 2-3=-35/780, 3-4=-11/860, 6-7=-367/156, 7-8=-1213/377, 1-19=-299/222, 8-9=-610/244
BOT CHORD 16-18=-306/196, 15-16=-662/290, 14-15=-524/220, 6-12=-282/198, 10-12=-320/1117
WEBS 2-18=0/466, 2-16=-787/261, 3-16=-134/529, 3-15=-1134/256, 4-15=-1339/373, 4-14=-265/1100, 5-14=-638/45, 12-14=-253/287, 5-12=-58/644, 7-12=-783/358, 1-18=-352/92, 8-10=-227/917

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 4-4-4, Zone1 4-4-4 to 14-10-14, Zone2 14-10-14 to 20-10-4, Zone1 20-10-4 to 24-7-11, Zone2 24-7-11 to 30-7-1, Zone1 30-7-1 to 41-10-2 zone; end vertical 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.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=160, 15=480, 9=209.
- 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 O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2,2026

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

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	7-0-0	10-8-12	17-4-0	20-6-0	25-8-5	28-8-0	30-10-11,32-8-0	40-2-0	47-8-0
Plate Offsets (X,Y)--	7-0-0	3-8-12	6-7-4	3-2-0	5-2-5	2-11-11	2-2-11 1-9-5	7-6-0	7-6-0
	[7:0-6-0-0-2-8]	[9:0-5-4-0-2-0]	[15:0-2-4-0-4-8]	[16:0-5-4-0-4-4]	[20:0-5-8-0-2-8]				

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-11 max.): 7-9.
BOT CHORD	Rigid ceiling directly applied or 4-2-3 oc bracing. Except: 1 Row at midpt 6-24
WEBS	1 Row at midpt 5-26, 7-23, 8-22, 9-20, 9-22
JOINTS	1 Brace at Jt(s): 20

(size) 2=0-3-8, 26=0-5-8, 14=0-5-8
 Max Horz 2=203(LC 11)
 Max Uplift 2=-518(LC 28), 26=-658(LC 12), 14=-353(LC 13)
 Max Grav 2=22(LC 9), 26=3325(LC 2), 14=1357(LC 2)

TOP CHORD	2-3=-228/1521, 3-5=-339/1998, 5-6=-226/254, 6-7=-701/320, 7-8=-1059/397, 8-9=-1059/397, 9-10=-2694/783, 10-12=-2792/691, 12-13=-2704/696, 13-14=-1267/384
BOT CHORD	2-28=-1280/177, 26-28=-1280/177, 25-26=-817/134, 24-25=-1383/217, 6-24=-1382/228, 22-23=-91/580, 21-22=-186/1351, 20-21=-225/1675, 17-18=-298/39, 16-17=-325/51, 10-16=-306/222, 15-16=-623/2524
WEBS	3-28=-169/335, 3-26=-661/324, 5-26=-2823/541, 5-25=-233/1758, 6-23=-134/1078, 7-23=-684/127, 7-22=-231/944, 8-22=-361/182, 18-20=-26/461, 9-20=-1623/267, 16-20=-368/2709, 9-16=-720/3327, 12-15=-494/228, 13-15=-522/2256, 18-21=-431/50, 9-22=-576/150, 17-20=-66/458

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-F22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpI=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-3-3, Zone1 3-3-3 to 20-6-0, Zone2 20-6-0 to 27-2-14, Zone1 27-2-14 to 30-10-11, Zone2 30-10-11 to 37-7-9, Zone1 37-7-9 to 47-5-4 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 snow 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) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=518, 26=658, 14=353.
- 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:

January 2, 2026

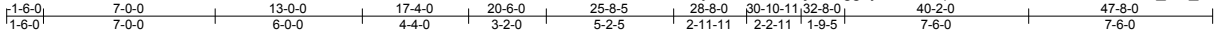


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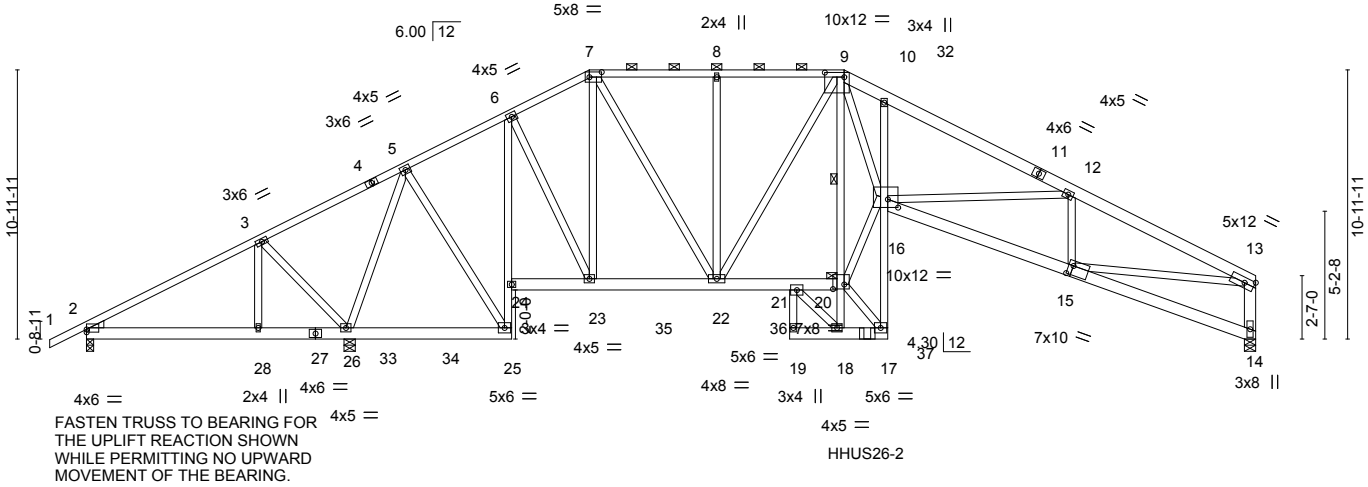
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T07	Piggyback Base Girder	2	2	T39680937

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:37 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-r2qvUVSYlcG73cO7d5t35sdWr_wA_6h4YWUlwPy3TZm



Scale = 1:93.9



	7-0-0	10-8-12	17-4-0	20-0-0	25-8-5	28-8-0	30-10-11	32-8-0	40-2-0	47-8-0
	7-0-0	3-8-12	6-7-4	3-2-0	5-2-5	2-11-11	2-2-11	1-9-5	7-6-0	
Plate Offsets (X,Y)--	[2:0-0-0,0-1-6], [7:0-6-0,0-2-8], [9:0-9-8,0-2-4], [15:0-2-4,0-4-8], [16:0-5-0,0-4-0], [20:0-5-8,0-2-4]									
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 0.65		Vert(LL) -0.22 16 >999 240			MT20 244/190		
TCDL 10.0	Lumber DOL 1.25		BC 0.61		Vert(CT) -0.44 15-16 >999 180					
BCLL 0.0 *	Rep Stress Incr NO		WB 0.98		Horz(CT) 0.35 14 n/a n/a					
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 815 lb FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 9-11,11-13: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.2 *Except* 6-25,19-21,10-17: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 9-16: 2x4 SP No.2, 13-14: 2x6 SP No.2	WEBS 1 Row at midpt 9-20
WEDGE Left: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 20
REACTIONS. (size) 2=0-3-8, 26=0-5-8, 14=0-5-8 Max Horz 2=200(LC 28) Max Uplift 2=-1017(LC 24), 26=-1222(LC 5), 14=-1282(LC 4) Max Grav 2=284(LC 5), 26=4572(LC 2), 14=3366(LC 35)	
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD 2-3=-744/2527, 3-5=-884/3035, 6-7=-989/396, 7-8=-1735/660, 8-9=-1735/660, 9-10=-5589/1952, 10-12=-5824/1970, 12-13=-6454/2376, 13-14=-3354/1324	
BOT CHORD 2-28=-2155/536, 26-28=-2155/536, 25-26=-1335/373, 24-25=-2159/601, 6-24=-2150/613, 22-23=-201/826, 21-22=-737/2562, 20-21=-879/3105, 17-18=-491/132, 16-17=-567/228, 10-16=-1030/486, 15-16=-2033/5806, 14-15=-152/396	
WEBS 3-26=-741/305, 5-26=-4089/1098, 5-25=-679/2654, 6-23=-481/1759, 7-23=-1290/429, 7-22=-599/1777, 8-22=-355/180, 9-22=-1613/547, 18-21=-705/180, 18-20=-212/943, 9-20=-3119/979, 16-20=-1472/5125, 9-16=-2406/7380, 12-16=-949/614, 12-15=-1445/626, 13-15=-1792/5107, 3-28=-165/399, 17-20=-215/774	

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

January 2,2026

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T07	Piggyback Base Girder	2	2	T39680937

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:37 2025 Page 2
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- NOTES-**
- 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) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1017, 26=1222, 14=1282.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 13) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 31-10-0 from the left end to connect truss(es) to front face of bottom chord.
 - 14) Fill all nail holes where hanger is in contact with lumber.

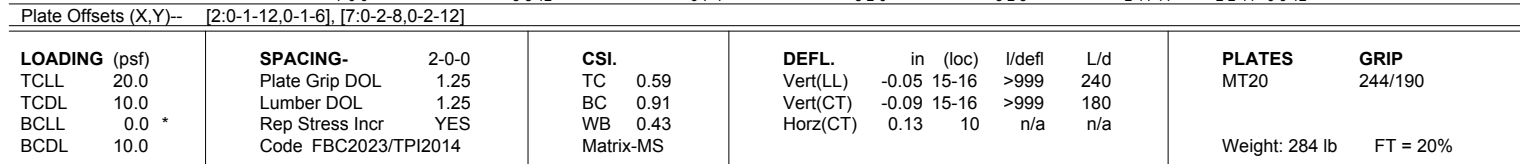
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-7=-60, 7-9=-60, 9-32=-60, 25-29=-20, 21-24=-20, 17-19=-20, 14-16=-20
 - Concentrated Loads (lb)
 - Vert: 37=-432(F)
 - Trapezoidal Loads (plf)
 - Vert: 32=-160-to-13=-280

 **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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ID:0vVlbySHsNmUvErjRG?ggxy3Wth-r2qvUVSYlcG73cO?d5t35sdXn_rb_FF4YWUlwPy3TZm
31-2-15
1-6-0 7-0-0 13-0-0 17-4-0 20-6-0 25-8-5 28-8-0 30-10-11 31-8-7
1-6-0 7-0-0 6-0-0 4-4-0 3-2-0 5-2-5 2-11-11 2-2-11 0.44 0.5.8



REACTIONS. (size) 2=0-3-8, 18=0-5-8, 10=Mechanical
 Max Horz 2=419(LC 12)
 Max Uplift 2=-30(LC 8), 18=-566(LC 12), 10=-200(LC 9)
 Max Grav 2=202(LC 1), 18=1929(LC 2), 10=848(LC 2)

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

TOP CHORD	2-3=-315/375, 3-5=-387/792, 5-6=-283/5, 6-7=-438/87, 7-8=-377/98, 8-9=-375/96, 10-12=-762/205, 9-12=-656/210
BOT CHORD	2-20=-280/0, 18-20=-280/0, 16-17=-513/123, 6-16=-534/156, 14-15=-88/357
WEBS	3-20=-175/265, 3-18=-572/329, 5-18=-1414/450, 5-17=-132/759, 6-15=-75/324, 9-14=-164/638, 8-14=-387/197

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -16-0 to 1-8-1, Zone1 1-8-1 to 20-6-0, Zone2 20-6-0 to 24-11-13 Zone1 24-11-13 to 31-5-11 zone; end vertical left 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) 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) 2 except (jt=lb) 18=566, 10=200.
- 9) 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

January 2, 2026



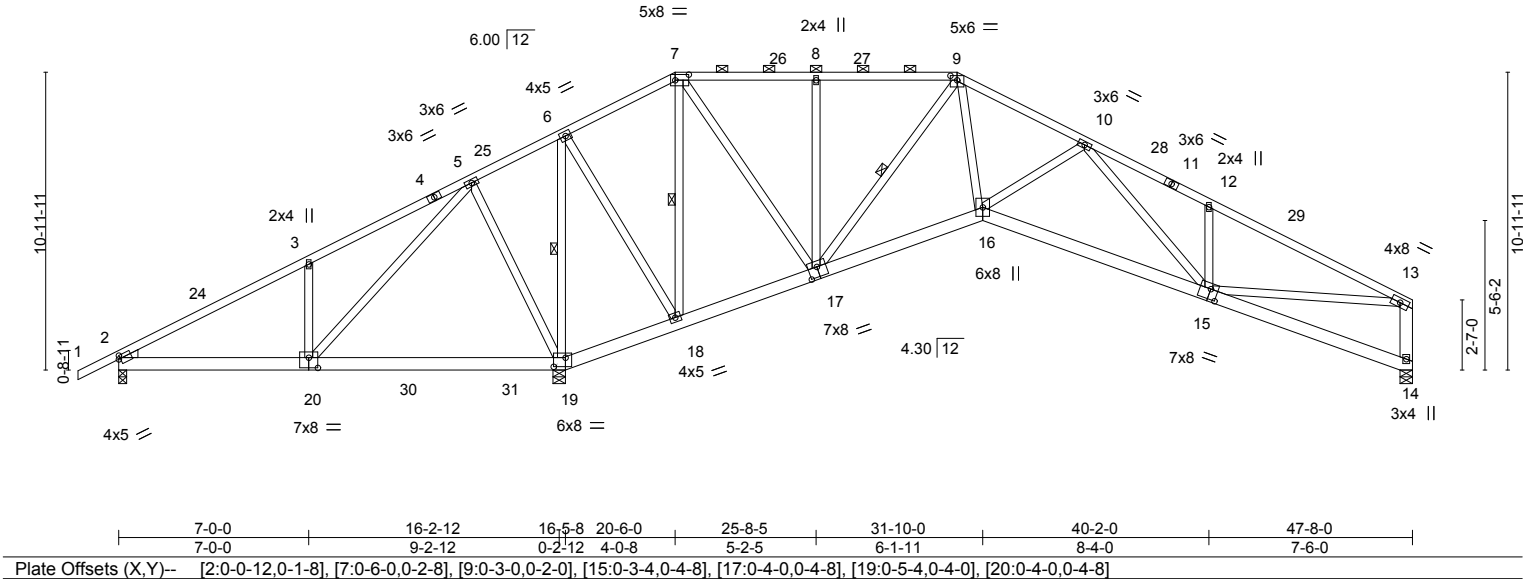
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680939
5164921	T09	Piggyback Base	3	1		

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ID:0vVlbySHsNMuVErjRG?ggxy3Wth-JEOHirTAWwP_gmzBApOld3Ae2OI9jd_EnAEITry3TZI
1-6-0 7-0-0 13-0-0 16-5-8 20-6-0 25-8-5 30-10-11 35-7-0 40-2-0 47-8-0
1-6-0 7-0-0 6-0-0 3-5-8 4-0-8 5-2-5 5-2-5 4-8-5 4-7-0 7-6-0
Scale = 1:84.9



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 0.81	Vert(LL)	-0.14 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.27 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.15 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 343 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-11-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 13-14: 2x6 SP No.2	WEBS 1 Row at midpt 6-19, 7-18, 9-17
WEDGE Left: 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 19=0-5-8, 14=0-5-8
	Max Horz 2=203(LC 11)
	Max Uplift 2=142(LC 26), 19=582(LC 12), 14=270(LC 13)
	Max Grav 2=340(LC 25), 19=2988(LC 2), 14=1007(LC 28)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-138/592, 3-5=-125/580, 5-6=-219/1309, 6-7=-42/511, 7-8=-320/177, 8-9=-315/175, 9-10=-1370/364, 10-12=-1841/620, 12-13=-1858/485, 13-14=-924/304
BOT CHORD	2-20=-498/213, 19-20=-908/295, 18-19=-1284/382, 17-18=-491/301, 16-17=-92/1029, 15-16=-305/1578
WEBS	3-20=-414/273, 5-20=-460/1003, 5-19=-585/282, 6-19=-1757/338, 6-18=-205/1434, 7-18=-1369/253, 7-17=-238/1176, 8-17=-359/182, 9-17=-1120/252, 9-16=-226/1304, 10-16=-365/252, 10-15=-173/308, 12-15=-394/264, 13-15=-325/1495

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-3-3, Zone1 3-3-3 to 20-6-0, Zone2 20-6-0 to 27-2-14, Zone1 27-2-14 to 30-10-11, Zone2 30-10-11 to 37-7-9, Zone1 37-7-9 to 47-5-4 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
 - 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.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 19=582, 14=270.
 - 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 2,2026

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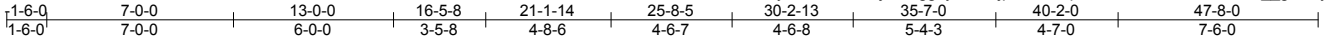
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680940
5164921	T09G	GABLE	1	1		

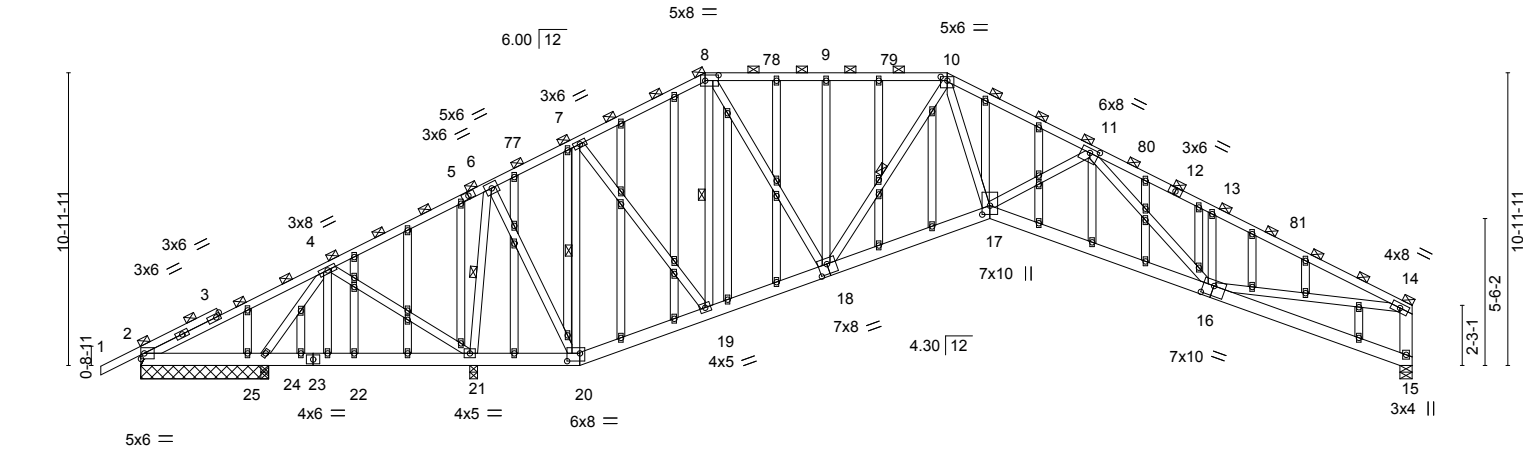
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:41 2025 Page 1

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Scale = 1:86.4



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LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD 2-0-0 oc purlins (3-3-5 max.), except end verticals.
12-14: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x6 SP No.2	WEBS 1 Row at midpt 6-21, 7-20, 8-19, 10-18
WEBS 2x4 SP No.3 *Except*	
14-15: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 4-9-8 except (jt=length) 21=0-3-8, 15=0-5-8, 24=0-3-8, 24=0-3-8.
(lb) - Max Horz 2=198(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 21=-587(LC 12), 15=-307(LC 13), 25=-200(LC 9), 24=-769(LC 26), 24=-704(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 2 except 21=2914(LC 1), 15=1158(LC 1), 25=466(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-175/535, 4-6=-279/1545, 6-7=0/424, 7-8=-501/229, 8-9=-898/284, 9-10=-894/282, 10-11=-2243/512, 11-13=-2451/750, 13-14=-2478/619, 14-15=-1125/343
BOT CHORD 2-25=-403/185, 24-25=-403/185, 22-24=-762/274, 21-22=-762/274, 20-21=-1114/384, 19-20=-427/254, 18-19=-100/413, 17-18=-194/1547, 16-17=-449/2328
WEBS 4-21=-731/203, 6-21=-2356/495, 6-20=-328/1754, 7-20=-1405/275, 7-19=-150/1083, 8-19=-980/175, 8-18=-223/1058, 9-18=-304/156, 10-18=-1040/245, 10-17=-301/1659, 11-17=-297/261, 13-16=-378/256, 14-16=-432/2007, 4-24=-154/711

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 3-3-3, Zone1 3-3-3 to 21-1-14, Zone2 21-1-14 to 27-10-12, Zone1 27-10-12 to 30-2-13, Zone2 30-2-13 to 36-11-11, Zone1 36-11-11 to 47-5-4 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) 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 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) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify compatibility of bearing surface.

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

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Date:

January 2,2026

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680940
5164921	T09G	GABLE	1	1	Job Reference (optional)	

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 2 except (jt=lb) 21=587, 15=307, 25=200, 24=769.
 - 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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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T10	Piggyback Base Girder	4	2	T39680941

- NOTES-**
- 9) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=591, 19=1311, 14=1094.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 351 lb down and 140 lb up at 31-10-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-60, 7-9=-60, 9-25=-60, 19-22=-20, 16-19=-20, 14-16=-20

Concentrated Loads (lb)

Vert: 16=-351(F)

Trapezoidal Loads (plf)

Vert: 25=-160-to-13=-280

⚠ 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	MILLIKEN RES.	T39680943
5164921	T12	Half 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. Wed Dec 31 10:38:43 2025 Page 1
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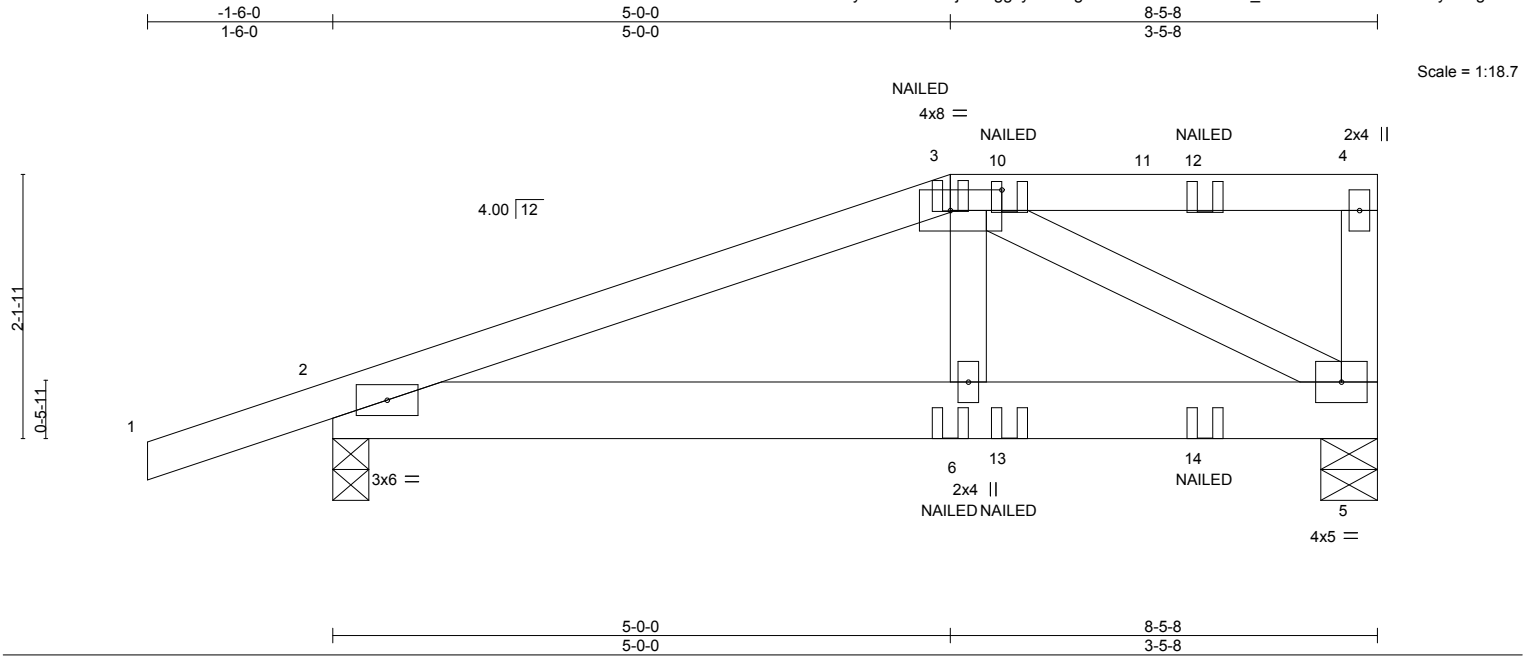


Plate Offsets (X,Y)--		[3:0-5-0,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25
TCDL 10.0	Lumber DOL	1.25	BC 0.22
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.21
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL. in (loc) l/defl L/d
			Vert(LL) 0.02 6-9 >999 240
			Vert(CT) -0.03 6-9 >999 180
			Horz(CT) 0.01 5 n/a n/a
			PLATES MT20
			GRIP 244/190
			Weight: 44 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 5=0-5-8
Max Horz 2=90(LC 4)
Max Uplift 2=-302(LC 4), 5=-324(LC 4)
Max Grav 2=531(LC 1), 5=559(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-759/396
BOT CHORD 2-6=-397/682, 5-6=-407/699
WEBS 3-6=-126/321, 3-5=-745/434

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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2=302, 5=324.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-68(B) 3=-60(B) 10=-66(B) 12=-66(B) 13=-38(B) 14=-38(B)

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

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

January 2,2026

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

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

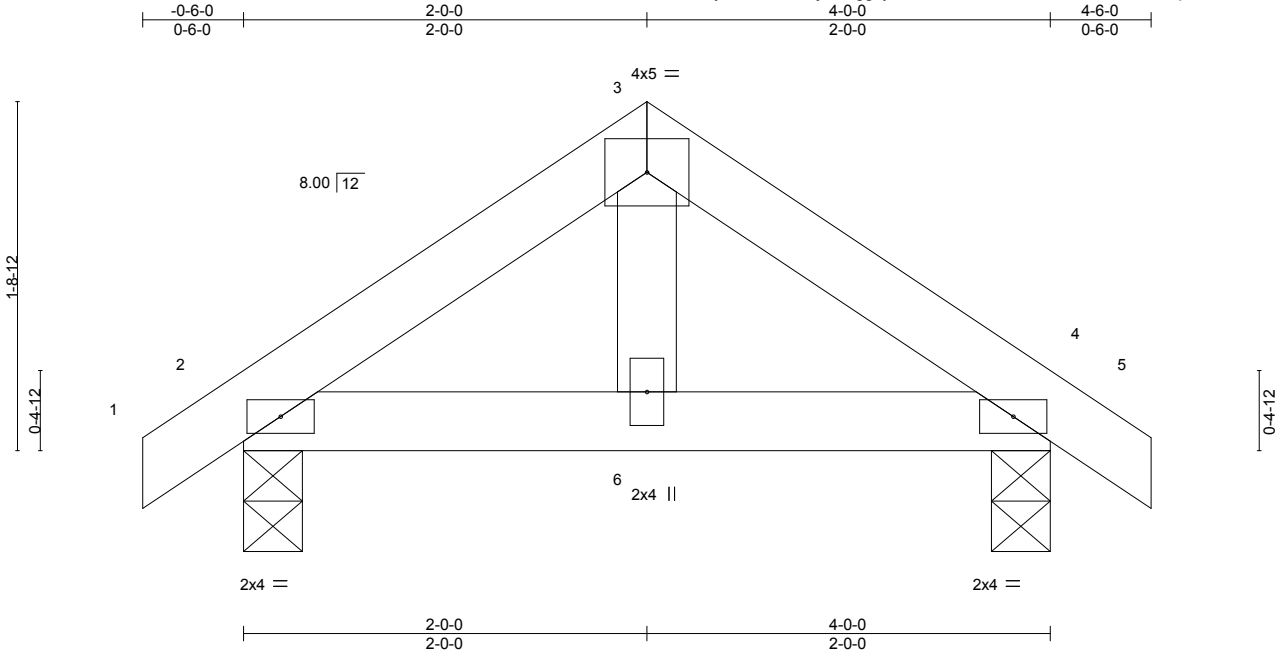
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680945
5164921	T14	KINGPOST	18	1	Job Reference (optional)	

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

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.00	6	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	6	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 17 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 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=41(LC 11)
Max Uplift 2=-49(LC 12), 4=-49(LC 13)
Max Grav 2=190(LC 1), 4=190(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 B; 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) 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) 2, 4.

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Date:

January 2,2026

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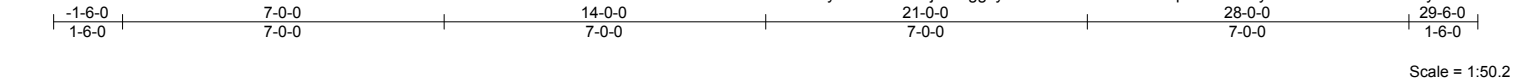
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680946
5164921	T15	Common	1	1	Job Reference (optional)	

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

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	-0.29 10-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.45 10-12	>743	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 141 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-2-11 oc bracing.

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=129(LC 16)
Max Uplift 2=-302(LC 12), 8=-302(LC 13)
Max Grav 2=1296(LC 2), 8=1296(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1933/430, 4-5=-1775/424, 5-6=-1776/424, 6-8=-1933/430
BOT CHORD 2-12=-408/1677, 10-12=-166/1160, 8-10=-279/1677
WEBS 5-10=-190/706, 6-10=-376/259, 5-12=-190/705, 4-12=-376/259

- 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 B; 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 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-6-0 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=302, 8=302.

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

January 2,2026

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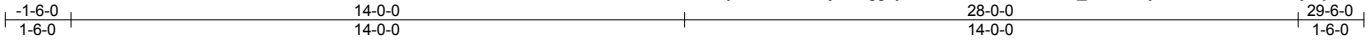
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680947
5164921	T15G	Common Supported Gable	1	1	Job Reference (optional)	

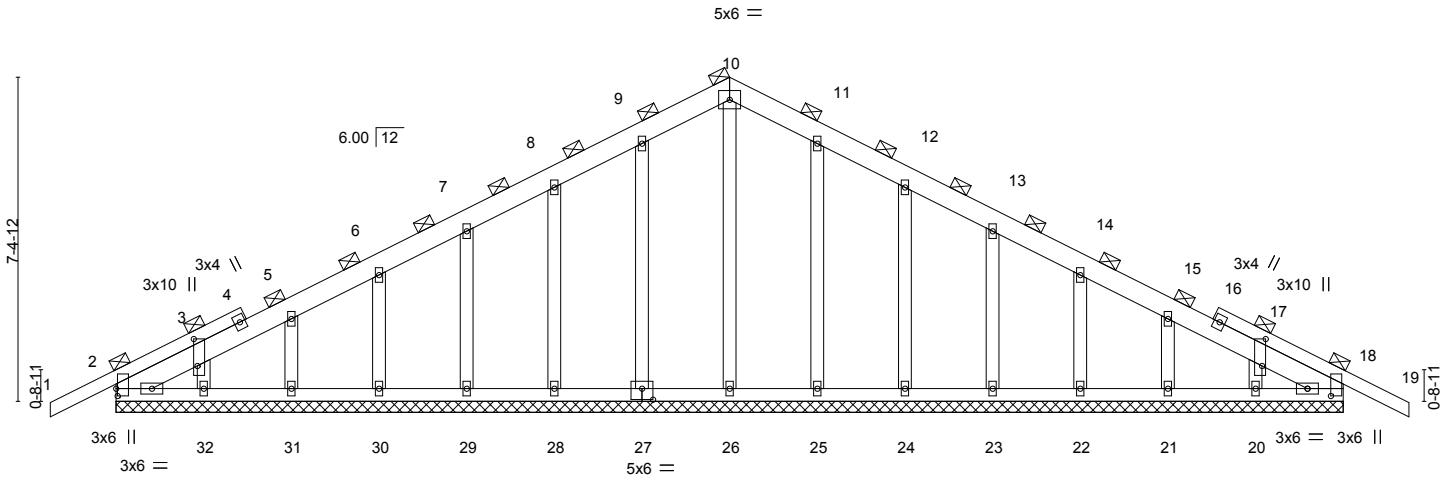
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8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:46 2025 Page 1

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Scale = 1:52.6



										28-0-0										28-0-0									
Plate Offsets (X,Y)--										[2:0-2-0,0-0-6], [3:0-7-6,0-1-0], [17:0-7-6,0-1-0], [18:0-2-0,0-6-6], [27:0-3-0,0-3-0]																			
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	0.14	Vert(LL)	-0.00	19	n/r		120		MT20		244/190												
TCDL	10.0	Lumber DOL		1.25		BC	0.03	Vert(CT)	-0.01	19	n/r		120																
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.12	Horz(CT)	0.00	18	n/a		n/a																
BCDL	10.0	Code		FBC2023/TPI2014		Matrix-S										Weight: 196 lb		FT = 20%											

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-4,16-19: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

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

REACTIONS.

All bearings 28-0-0.
(lb) - Max Horz 2=122(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 26, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20

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 B; 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
- Truss designed for roof loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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, 18, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, 20.
- 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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 2,2026

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.	T39680948
5164921	T16	Common	2	1		

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

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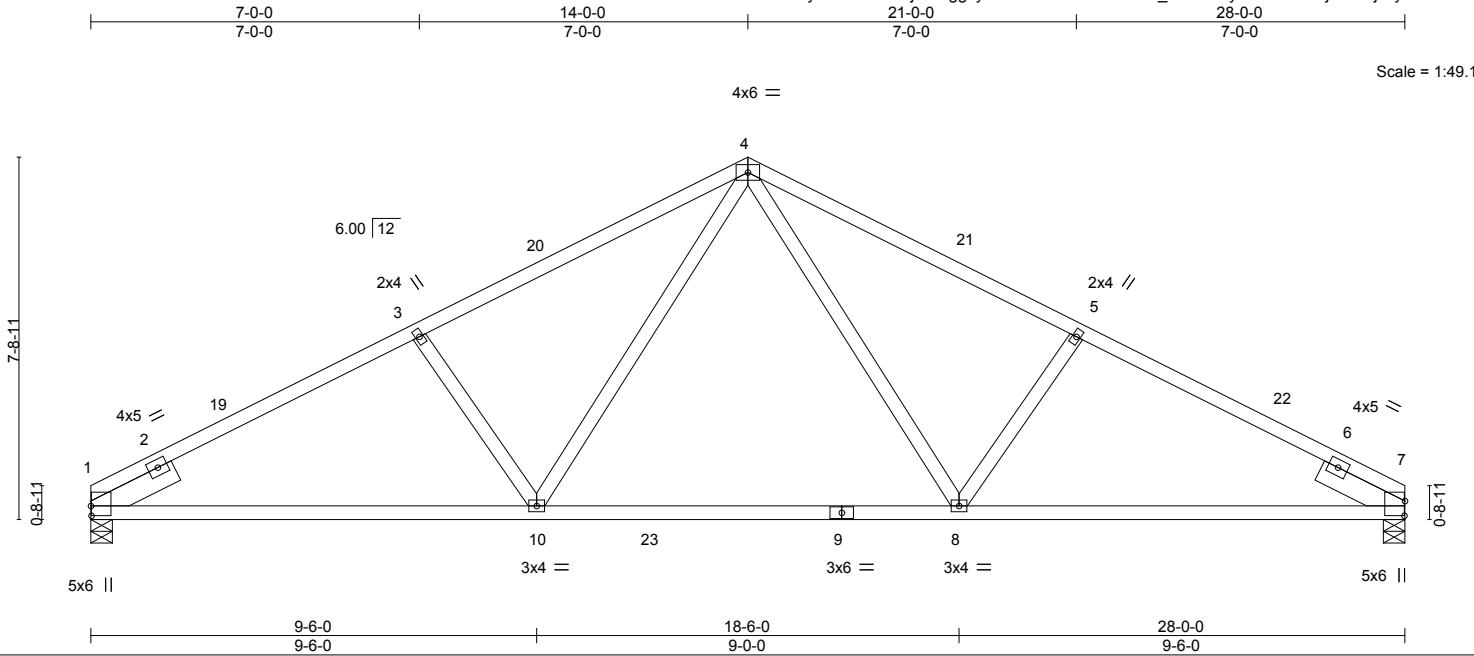


Plate Offsets (X,Y)--		[1:0-2-8,0-0-2], [7:0-3-12,0-0-2]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.72	Vert(LL)	-0.28	8-10	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL 1.25		BC	0.88	Vert(CT)	-0.44	8-10	>767	180				
BCLL	0.0 *	Rep Stress Incr YES		WB	0.28	Horz(CT)	0.06	7	n/a	n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 136 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-11-14 oc bracing.

REACTIONS. (size) 1=0-5-8, 7=0-5-8
Max Horz 1=-117(LC 17)
Max Uplift 1=-264(LC 12), 7=-264(LC 13)
Max Grav 1=1221(LC 2), 7=1221(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1948/436, 3-4=-1791/430, 4-5=-1790/430, 5-7=-1948/436
BOT CHORD 1-10=-427/1693, 8-10=-180/1168, 7-8=-310/1692
WEBS 4-8=-195/715, 5-8=-384/262, 4-10=-195/716, 3-10=-384/262

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 28-0-0 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
 - 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) 1=264, 7=264.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T17	Common Girder	1	2	T39680949

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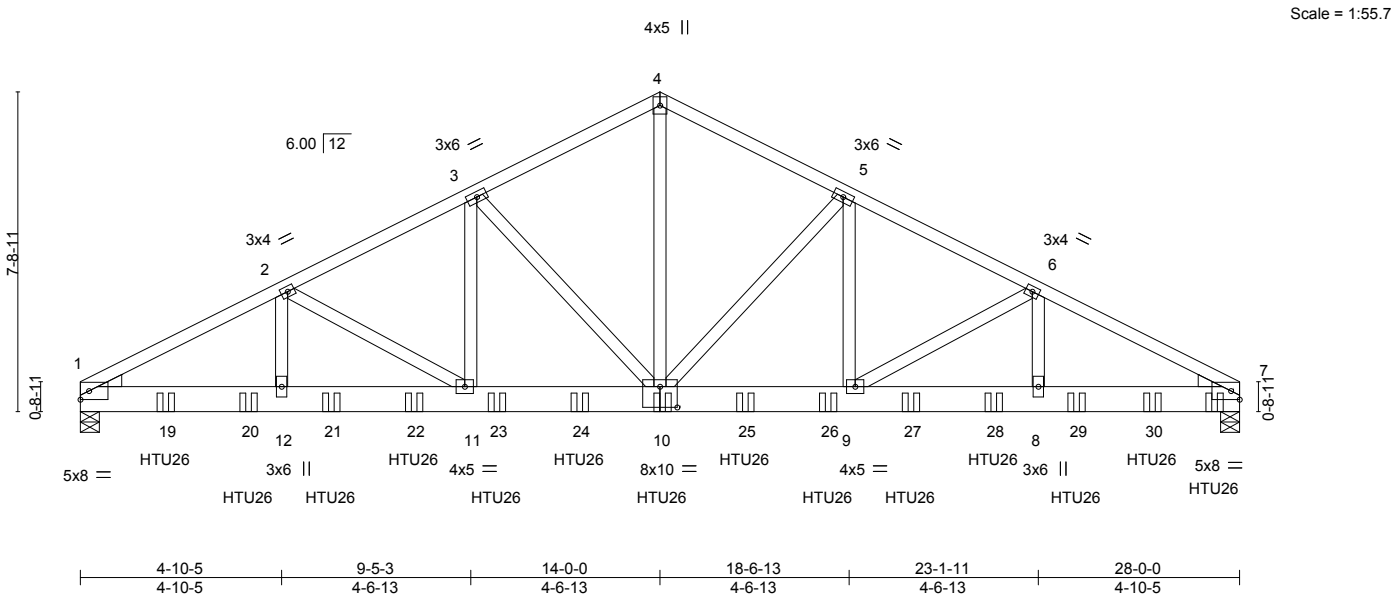


Plate Offsets (X,Y)--										[10:0-5-0,0-6-0]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.29	Vert(LL)	-0.13	9-10	>999	240	MT20	244/190					
TCDL	10.0	Lumber DOL 1.25				BC	0.21	Vert(CT)	-0.21	9-10	>999	180							
BCLL	0.0 *	Rep Stress Incr NO				WB	0.67	Horz(CT)	0.04	7	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 397 lb		FT = 20%					

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 1=0-5-8, 7=0-5-8
Max Horz 1=-117(LC 37)
Max Uplift 1=-1230(LC 8), 7=-1391(LC 9)
Max Grav 1=3639(LC 1), 7=3999(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-6291/2124, 2-3=-5521/1876, 3-4=-4281/1492, 4-5=-4281/1492, 5-6=-5534/1880, 6-7=-6372/2156
BOT CHORD 1-12=-1955/5562, 11-12=-1955/5562, 10-11=-1652/4889, 9-10=-1555/4900, 8-9=-1867/5635, 7-8=-1867/5635
WEBS 4-10=-1225/3509, 5-10=-1681/675, 5-9=-528/1506, 6-9=-882/381, 6-8=-222/620, 3-10=-1665/669, 3-11=-522/1488, 2-11=-809/352, 2-12=-194/557

- 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: 2x8 - 2 rows staggered at 0-9-0 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 B; 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) 1=1230, 7=1391.
 - 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 25-10-12 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 at 27-4-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
 - Continued on page 2 where hanger is in contact with lumber.

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

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

January 2,2026

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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	T17	Common Girder	1	2	T39680949

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:48 2025 Page 2
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-09?3oGbRA_fZtlk6mvZe1AaUfQm_39Di4kfpGy3TZb

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, 13-16=-20
- Concentrated Loads (lb)
- Vert: 10=-388(F) 18=-349(F) 19=-388(F) 20=-388(F) 21=-388(F) 22=-388(F) 23=-388(F) 24=-388(F) 25=-388(F) 26=-388(F) 27=-388(F) 28=-390(F) 29=-390(F) 30=-390(F)

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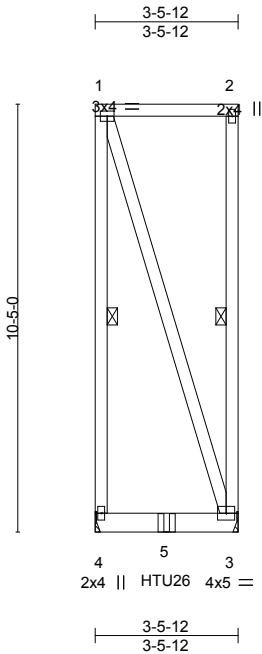
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	TG01	FLAT GIRDER	1	2	T39680950

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:48 2025 Page 1

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Scale = 1:56.1

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 0.10	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.02	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 114 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 1-4, 2-3

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Uplift 4=-142(LC 4), 3=-142(LC 4)
Max Grav 4=526(LC 2), 3=526(LC 2)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=142, 3=142.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 1-8-14 from the left end 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-649(B)

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

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 2,2026

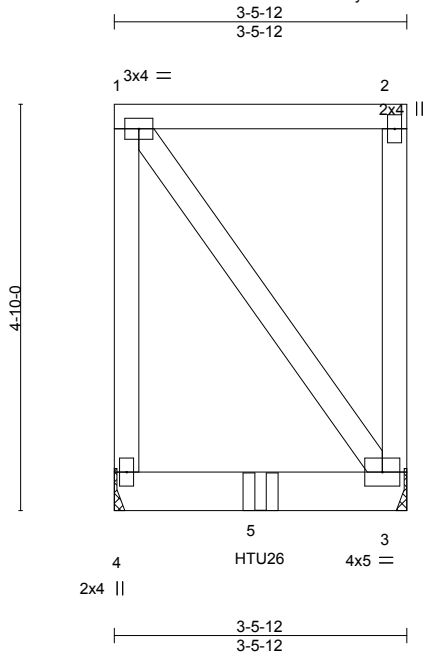
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Job	Truss	Truss Type	Qty	Ply	MILLIKEN RES.
5164921	TG02	FLAT GIRDER	2	2	T39680951

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Wed Dec 31 10:38:49 2025 Page 1
ID:0vVlbySHsNMuVErjRG?ggxy3Wth-ULZS0cc3xInQVSJIKd4ta07iRq69omvrJOOOLiy3TZa



Scale = 1:27.4

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 0.10	Vert(LL)	-0.01	3-4	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.01	3-4	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						
								Weight: 66 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 3=Mechanical
Max Uplift 4=120(LC 4), 3=120(LC 4)
Max Grav 4=371(LC 1), 3=371(LC 1)

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

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=120, 3=120.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 1-8-14 from the left end 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-487(B)

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January 2,2026

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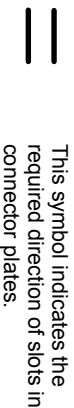
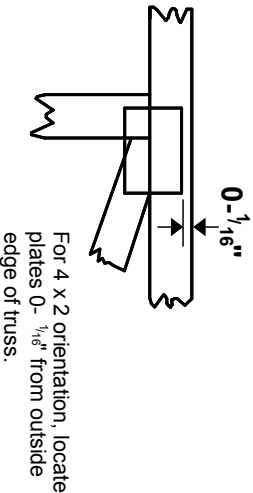
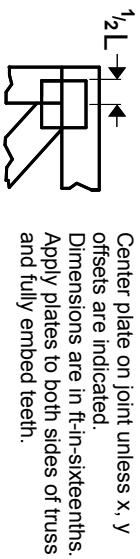
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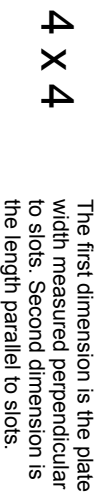
Symbols

PLATE LOCATION AND ORIENTATION

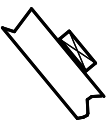


* Plate location details available in MITek software or upon request.

PLATE SIZE

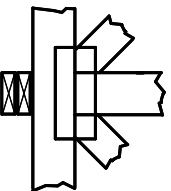


LATERAL BRACING LOCATION



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

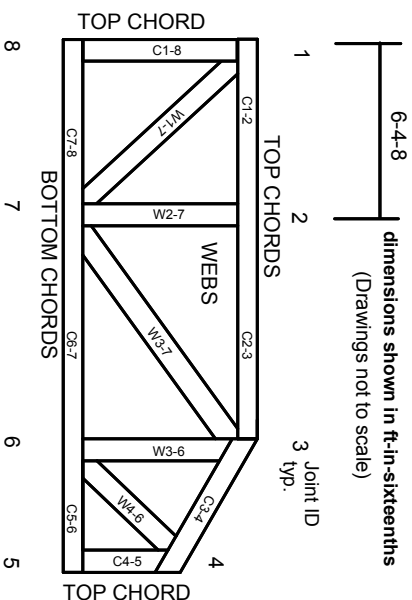
BEARING



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

Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:
ESR-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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