



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

RE: 4496337 - BOUSQUET RES.

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

**Site Information:**

Customer Info: AMIRA BUILDERS Project Name: Bousquet Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: PID 16-7S-17-10006-234, N/A  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

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

This package includes 32 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.

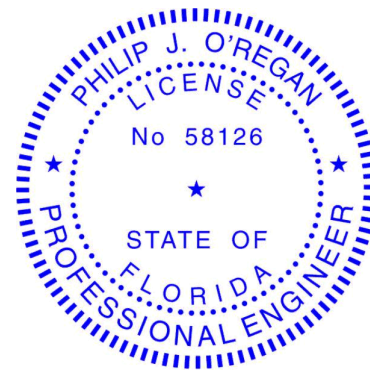
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T36559395	PB01	3/4/25	15	T36559409	T07	3/4/25
2	T36559396	PB01G	3/4/25	16	T36559410	T08	3/4/25
3	T36559397	PB02	3/4/25	17	T36559411	T08G	3/4/25
4	T36559398	PB02G	3/4/25	18	T36559412	T09	3/4/25
5	T36559399	T01	3/4/25	19	T36559413	V01	3/4/25
6	T36559400	T01G	3/4/25	20	T36559414	V02	3/4/25
7	T36559401	T02	3/4/25	21	T36559415	V03	3/4/25
8	T36559402	T02G	3/4/25	22	T36559416	V04	3/4/25
9	T36559403	T03	3/4/25	23	T36559417	V05	3/4/25
10	T36559404	T04	3/4/25	24	T36559418	V06	3/4/25
11	T36559405	T04G	3/4/25	25	T36559419	V07	3/4/25
12	T36559406	T05	3/4/25	26	T36559420	V08	3/4/25
13	T36559407	T05G	3/4/25	27	T36559421	V09	3/4/25
14	T36559408	T06	3/4/25	28	T36559422	V10	3/4/25

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:

March 4, 2025

ORegan, Philip

1 of 2



RE: 4496337 - BOUSQUET RES.

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

**Site Information:**

Customer Info: AMIRA BUILDERS   Project Name: Bousquet Res.   Model: Custom  
Lot/Block: N/A   Subdivision: N/A  
Address: PID 16-7S-17-10006-234, N/A  
City: Columbia Cty   State: FL

No.	Seal#	Truss Name	Date
29	T36559423	V11	3/4/25
30	T36559424	V12	3/4/25
31	T36559425	V13	3/4/25
32	T36559426	V14	3/4/25

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559395
4496337	PB01	Piggyback	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:40 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-L3fd05MmPebTaf05fcBbii?qR0DwhPTXug0xP3zeccP

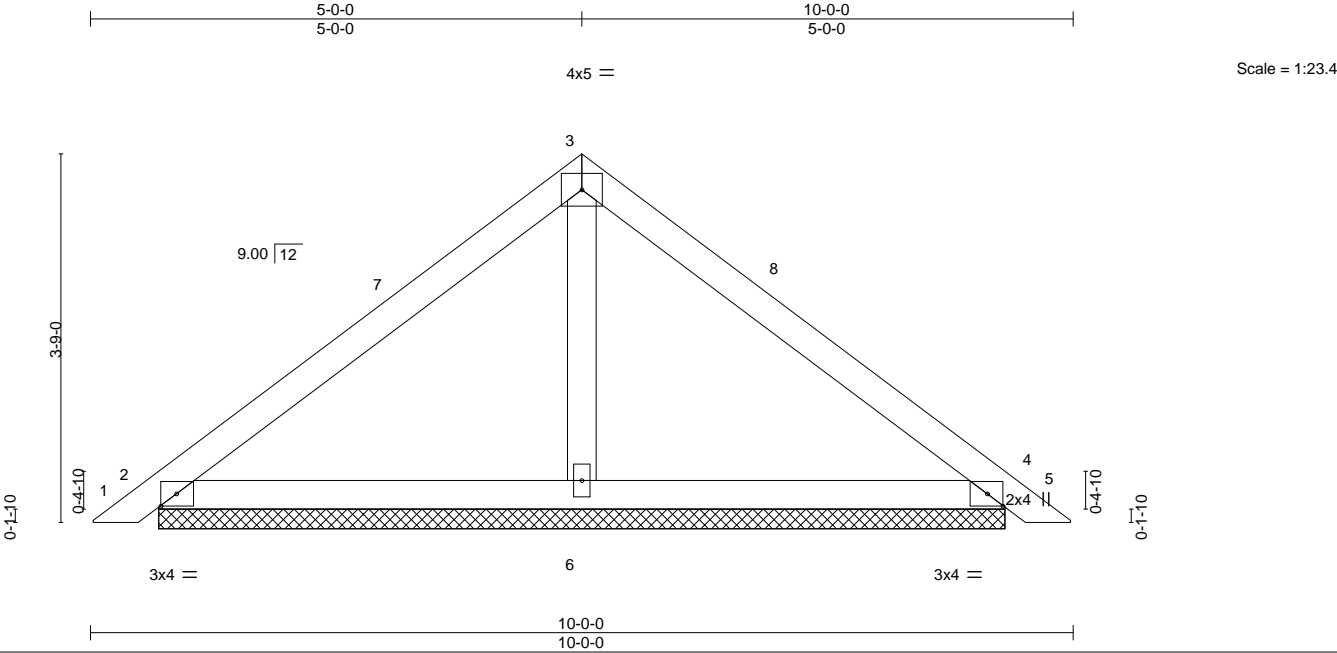


Plate Offsets (X,Y)--		[2:0-1-15,0-1-8], [4:0-1-15,0-1-8]							
LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25	TC 0.32	Vert(LL) 0.01	5	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.25	BC 0.19	Vert(CT) 0.01	5	n/r	120		
BCLL 0.0 **		Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014	Matrix-S					Weight: 36 lb	FT = 20%

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

REACTIONS.	(size)	2=8-7-5, 4=8-7-5, 6=8-7-5
	Max Horz	2=113(LC 10)
	Max Uplift	2=87(LC 12), 4=102(LC 13), 6=88(LC 12)
	Max Grav	2=203(LC 1), 4=203(LC 1), 6=336(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 5-0-0, Zone2 5-0-0 to 9-3-11, Zone1 9-3-11 to 9-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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 except (jt=lb) 4=102.
  - 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.

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

March 4,2025



Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559397
4496337	PB02	Piggyback	15	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:41 2025 Page 1  
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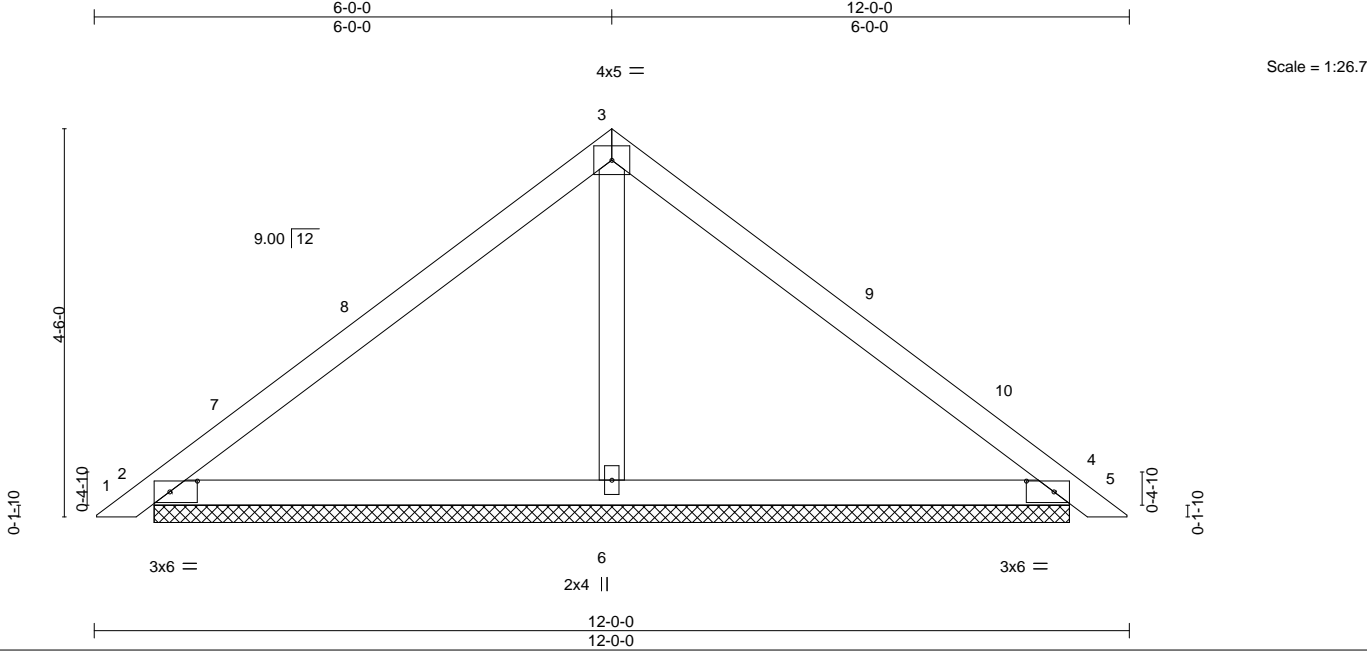


Plate Offsets (X,Y)--		[2:0-3-13,0-1-8], [4:0-3-13,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25		TC	0.42	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.28	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 **	Rep Stress Incr YES		WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 44 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=10-7-5, 4=10-7-5, 6=10-7-5  
Max Horz 2=137(LC 10)  
Max Uplift 2=103(LC 12), 4=121(LC 13), 6=109(LC 12)  
Max Grav 2=243(LC 1), 4=243(LC 1), 6=415(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 11-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-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=103, 4=121, 6=109.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025

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

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

**MiTek®**  
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559398
4496337	PB02G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:41 2025 Page 1  
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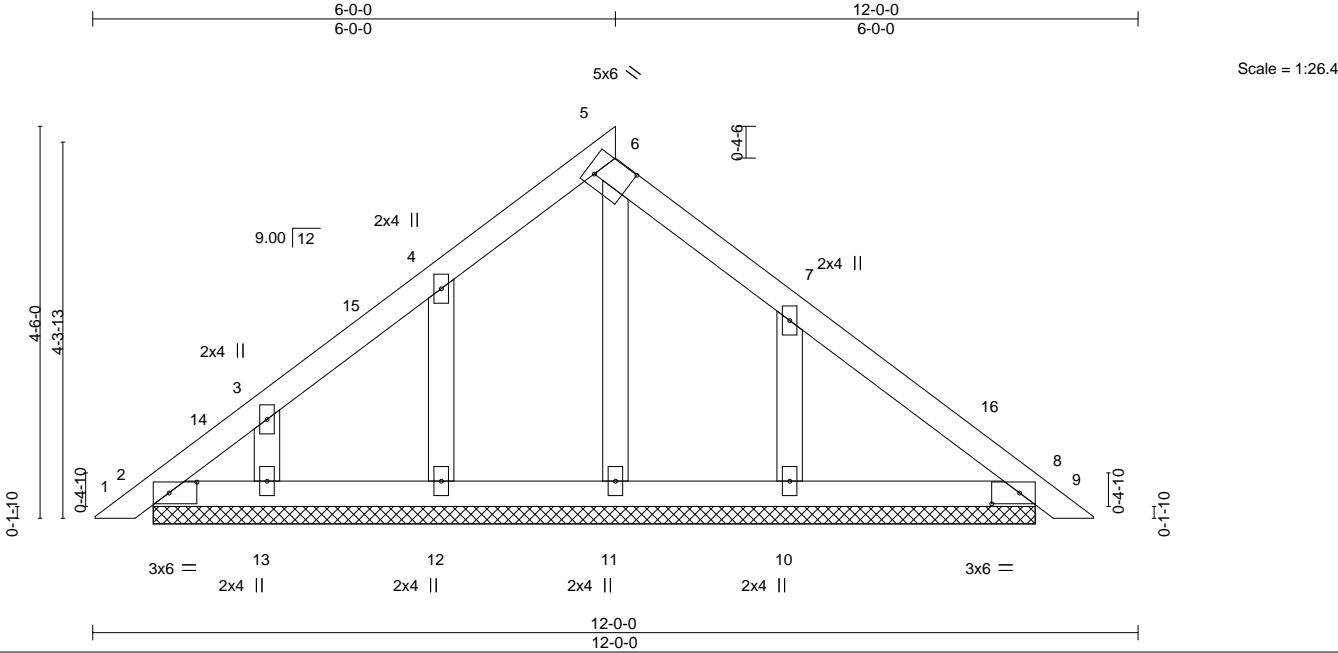


Plate Offsets (X,Y)-- [2:0-3-13,0-1-8], [5:0-4-13,0-3-6], [8:0-3-13,0-1-8]					
<b>LOADING</b> (psf)		<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES GRIP</b>
TCLL	20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20 244/190
TCDL	10.0	Plate Grip DOL 1.25	BC 0.08	Vert(LL) 0.00 9 n/r 120	
BCLL	0.0 *	Lumber DOL 1.25	WB 0.09	Vert(CT) 0.00 9 n/r 120	
BCDL	10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a	
		Code FBC2023/TPI2014			Weight: 49 lb FT = 20%

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

**REACTIONS.** All bearings 10-1-8.  
(lb) - Max Horz 2=-131(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 12=-122(LC 12), 13=-120(LC 12), 10=-198(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11, 12, 13 except 10=270(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 7-10=-223/301

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-3-1 to 3-3-1, Zone1 3-3-1 to 5-9-1, Zone2 5-9-1 to 10-0-0, Zone1 10-0-0 to 11-3-1 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, 8 except (jt=lb) 12=122, 13=120, 10=198.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
  - 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:

March 4,2025

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

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559399
4496337	T01	Common	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:42 2025 Page 1  
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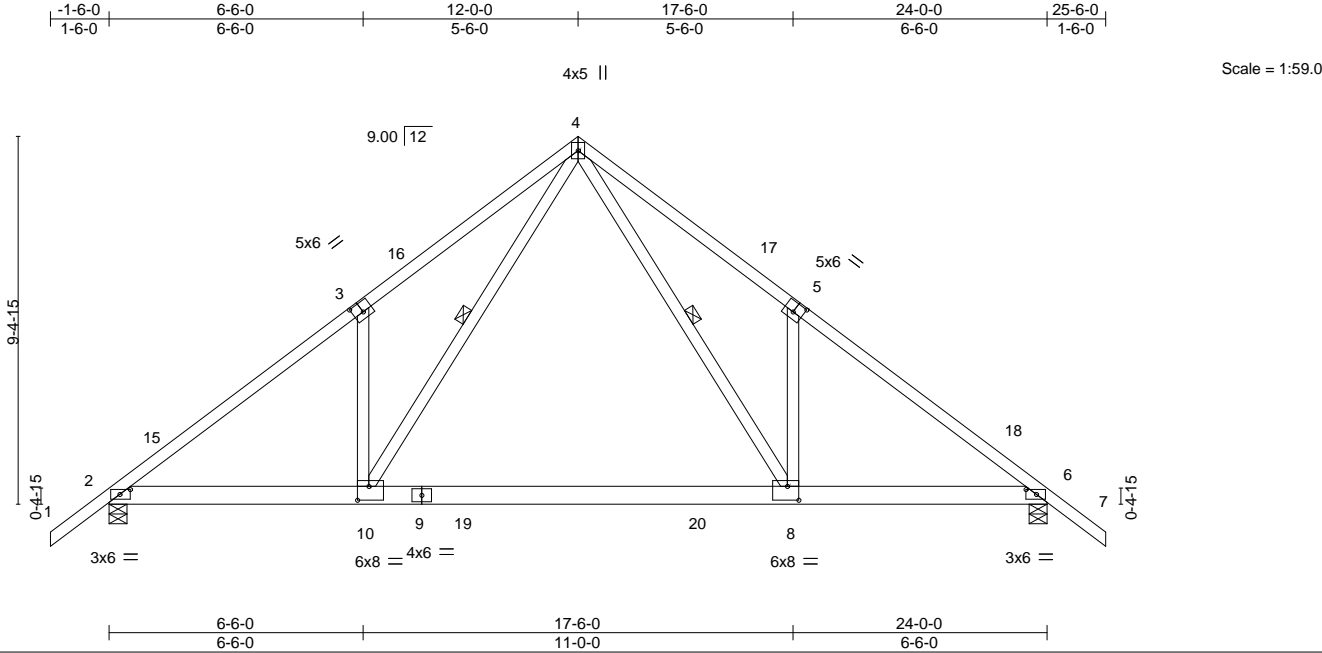


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-3-3,0-1-8], [8:0-3-8,0-4-4], [10:0-3-8,0-4-4]						
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL	20.0	Plate Grip DOL	1.25	TC 0.56	in (loc) l/defl L/d	<b>GRIP</b>
TCDL	10.0	Lumber DOL	1.25	BC 0.47	Vert(LL) -0.23 8-10 >999 240	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.48	Vert(CT) -0.44 8-10 >647 180	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS	Horz(CT) 0.02 6 n/a n/a	
						Weight: 151 lb FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt                      4-8, 4-10

**REACTIONS.** (size) 2=0-5-8, 6=0-5-8  
Max Horz 2=-323(LC 10)  
Max Uplift 2=-523(LC 12), 6=-523(LC 13)  
Max Grav 2=1547(LC 19), 6=1547(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2235/701, 3-4=-2305/971, 4-5=-2305/972, 5-6=-2235/701  
BOT CHORD 2-10=-588/1915, 8-10=-229/1126, 6-8=-440/1752  
WEBS 4-8=-673/1499, 5-8=-420/424, 4-10=-673/1499, 3-10=-420/424

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=523, 6=523.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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Date:

March 4,2025

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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559400
4496337	T01G	Common Supported Gable	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:43 2025 Page 1  
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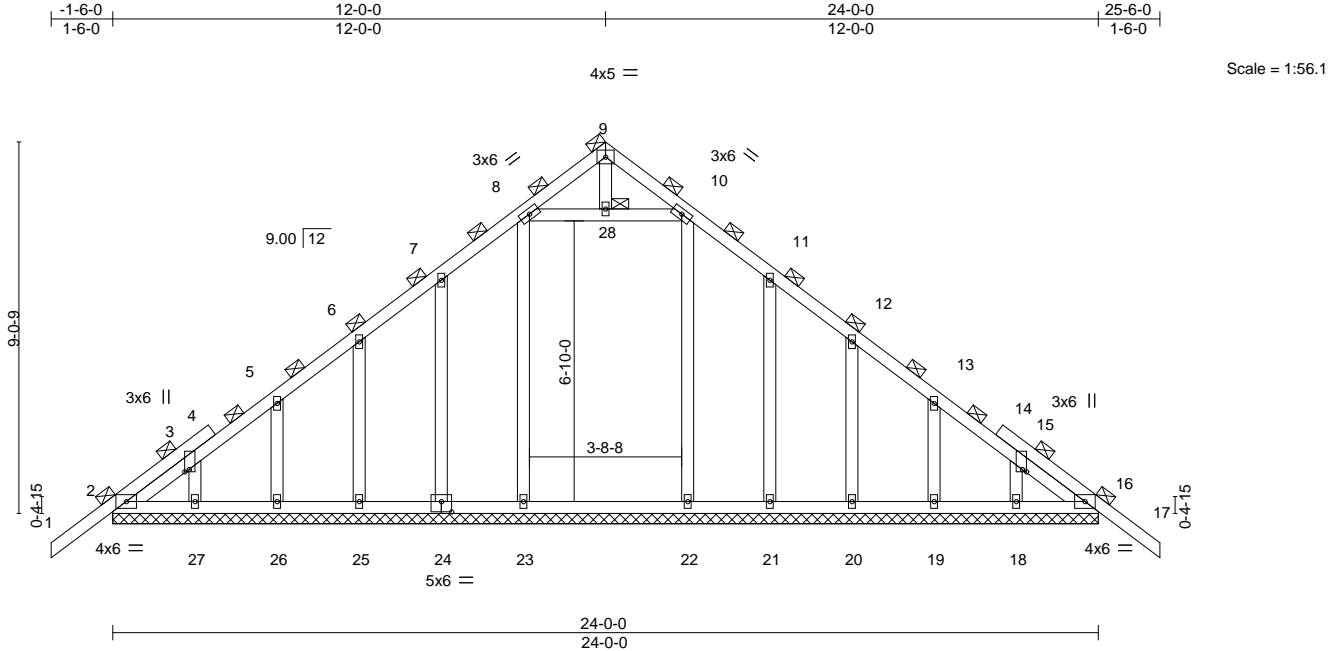


Plate Offsets (X,Y)--		[3:0-0-11,0-1-4], [15:0-0-11,0-1-4], [24:0-3-0,0-3-0]	
<b>LOADING</b> (psf)		<b>SPACING-</b>	<b>CSI.</b>
TCLL	20.0	2-0-0	TC 0.18
TCDL	10.0	Plate Grip DOL 1.25	BC 0.14
BCLL	0.0 *	Lumber DOL 1.25	WB 0.20
BCDL	10.0	Rep Stress Incr YES	Matrix-S
		Code FBC2023/TPI2014	
		<b>DEFL.</b>	<b>PLATES</b>
		in (loc)	MT20
		l/defl	244/190
		L/d	
		Vert(LL)	
		Vert(CT)	
		Horz(CT)	
			Weight: 161 lb
			FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>
TOP CHORD	2x4 SP No.2	TOP CHORD
BOT CHORD	2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.).
WEBS	2x4 SP No.3	BOT CHORD
OTHERS	2x4 SP No.3	Rigid ceiling directly applied or 10-0-0 oc bracing.
		JOINTS
		1 Brace at Jt(s): 9, 28

**REACTIONS.** All bearings 24-0-0.

(lb) - Max Horz 2=-311(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 16, 23, 27, 18 except 2=-101(LC 8), 24=-125(LC 12), 25=-130(LC 12), 26=-117(LC 12), 21=-123(LC 13), 20=-130(LC 13), 19=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 21, 20, 19, 18 except 23=366(LC 19), 22=308(LC 20)

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

TOP CHORD 7-8=-163/273, 10-11=-163/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 23, 27, 18 except (jt=lb) 2=101, 24=125, 25=130, 26=117, 21=123, 20=130, 19=122.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 16.
  - 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:

March 4,2025

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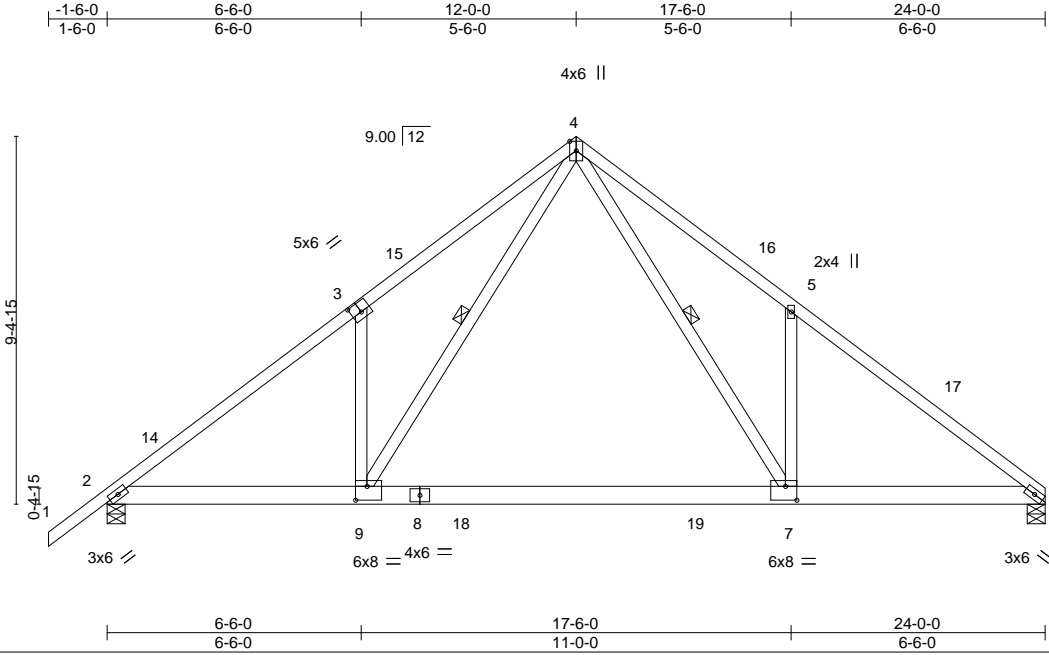
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314.434.1200 / MiTek-US.com



Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559401
4496337	T02	Common	5	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:43 2025 Page 1  
ID:4WBbPVOW1yKcQUKaeAh??0zejYa-leLle6OfiZz2R7kgKklJKdHwEBNufQzaeEb0NzeccM



Scale = 1:59.0

Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [7:0-3-8,0-4-4], [9:0-3-8,0-4-4]									
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 0.56		Vert(LL)	-0.22 7-9	>999	240	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.46		Vert(CT)	-0.44 7-9	>650	180		
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.49		Horz(CT)	0.02 6	n/a	n/a		
BCDL 10.0		Code	FBC2023/TPI2014	Matrix-MS						Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 4-7, 4-9

**REACTIONS.** (size) 6=0-5-8, 2=0-5-8  
Max Horz 2=311(LC 11)  
Max Uplift 6=469(LC 13), 2=524(LC 12)  
Max Grav 6=1457(LC 20), 2=1549(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2237/704, 3-4=-2307/973, 4-5=-2327/995, 5-6=-2249/734  
BOT CHORD 2-9=-613/1899, 7-9=-254/1110, 6-7=-468/1738  
WEBS 4-7=-697/1524, 5-7=-427/431, 4-9=-672/1498, 3-9=-420/425

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone;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) 6=469, 2=524.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

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Date:

March 4,2025

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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:44 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zeJYa-Dqy8sSPHTt5v3HJsuSFXsYAYdde0dBv7pI\_9ZqzeccL  
-1-6-0 12-0-0 24-0-0 25-6-0  
1-6-0 12-0-0 12-0-0 1-6-0



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 9-23

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

TOP CHORD	2-3=273/213, 8-9=165/267, 9-10=165/267
BOT CHORD	2-28=113/253, 27-28=116/254, 26-27=116/254, 25-26=116/254, 24-25=116/254, 23-24=116/254, 22-23=116/254, 21-22=116/254, 20-21=116/254, 19-20=116/254, 18-19=116/254, 16-18=114/252

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March 4.2025

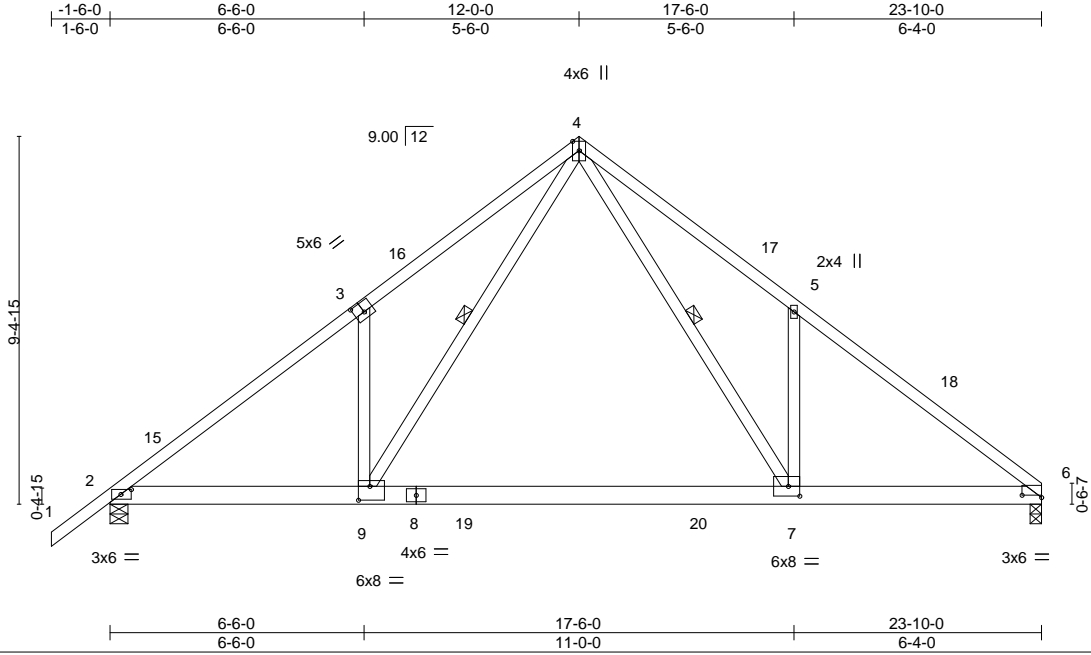
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559403
4496337	T03	Common	15	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:45 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-h1TW3oQvEADmhRu3R9nmOljdV1tmMZ0G1yjj5Gzecck



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.23 7-9 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.45 7-9 >641 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.02 6 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 147 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-5-11 oc purlins.
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 4-7, 4-9

**REACTIONS.** (size) 6=0-3-8, 2=0-5-8  
Max Horz 2=310(LC 9)  
Max Uplift 6=466(LC 13), 2=521(LC 12)  
Max Grav 6=1451(LC 20), 2=1539(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2223/703, 3-4=-2293/969, 4-5=-2268/975, 5-6=-2197/722  
BOT CHORD 2-9=-613/1887, 7-9=-254/1095, 6-7=-458/1693  
WEBS 4-7=-678/1465, 5-7=-417/426, 4-9=-674/1504, 3-9=-420/425

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-10-0 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) 6=466, 2=521.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 7-10=-20

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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025

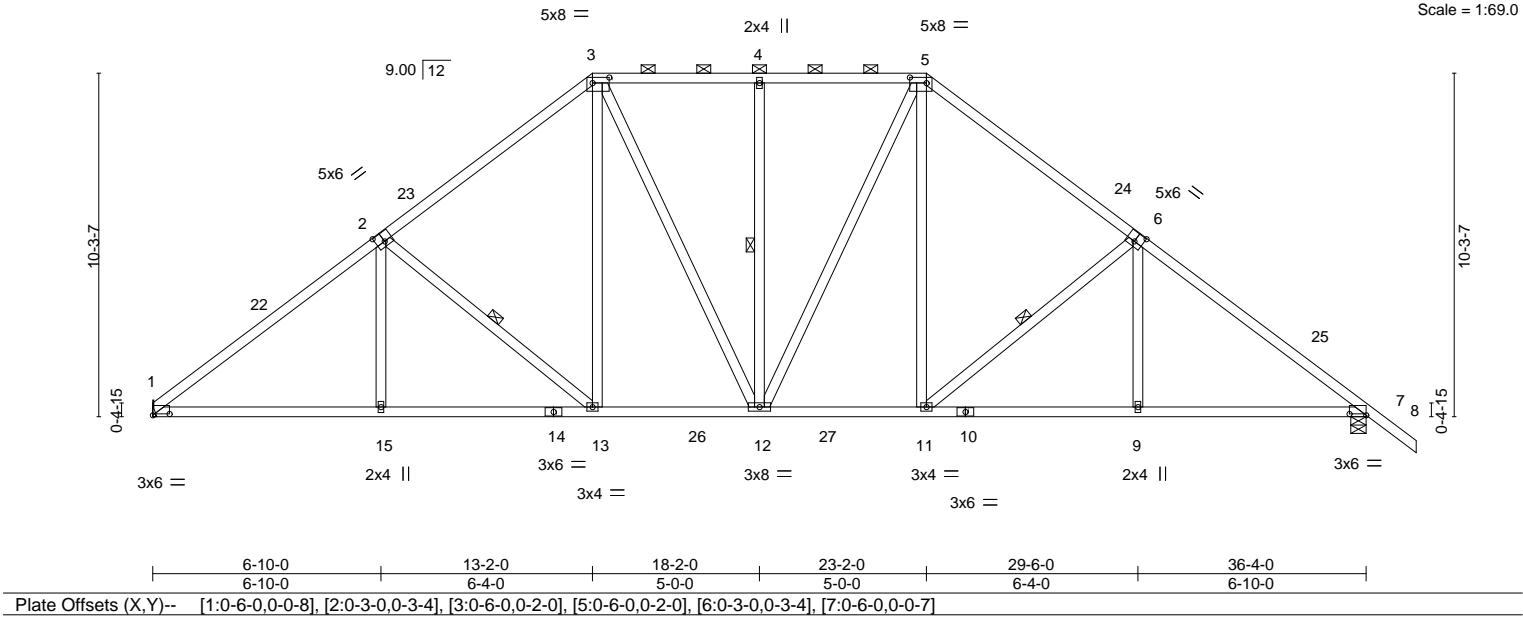
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559404
4496337	T04	Piggyback Base	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:45 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-h1TW3oQvEADmhRu3R9nmOljd11qRMX5G1yjj5GzeccK  
6-10-0 13-2-0 18-2-0 23-2-0 29-6-0 36-4-0 37-10-0  
6-10-0 6-4-0 5-0-0 5-0-0 6-4-0 6-10-0 1-6-0



LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.57	Vert(LL) 0.11	15-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.68	Vert(CT) -0.20	9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.60	Horz(CT) 0.09	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 235 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-8-1 max.): 3-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-10-0 oc bracing.
	WEBS 1 Row at midpt 2-13, 6-11, 4-12

**REACTIONS.** (size) 1=Mechanical, 7=0-5-8  
Max Horz 1=340(LC 10)  
Max Uplift 1=515(LC 12), 7=569(LC 13)  
Max Grav 1=1586(LC 2), 7=1664(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2295/730, 2-3=-1817/668, 3-4=-1484/611, 4-5=-1484/611, 5-6=-1815/664, 6-7=-2285/719  
BOT CHORD 1-15=-639/1891, 13-15=-639/1890, 12-13=-360/1384, 11-12=-237/1370, 9-11=-391/1757, 7-9=-391/1758  
WEBS 2-15=0/286, 2-13=-663/412, 3-13=-215/638, 3-12=-256/343, 5-12=-257/345, 5-11=-210/632, 6-11=-650/401, 6-9=0/283, 4-12=-331/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-7-10, Zone1 3-7-10 to 13-2-0, Zone2 13-2-0 to 18-2-0, Zone1 18-2-0 to 23-2-0, Zone2 23-2-0 to 28-3-11, Zone1 28-3-11 to 37-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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) 1=515, 7=569.
  - 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559405
4496337	T04G	GABLE	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:46 2025 Page 1

ID:4WBbPV0W1yKcQUKaeAh??0zejYa-9D1uH8RX?ULdlTF?tl?xzFuGRKT55XQGcTGdizeccJ

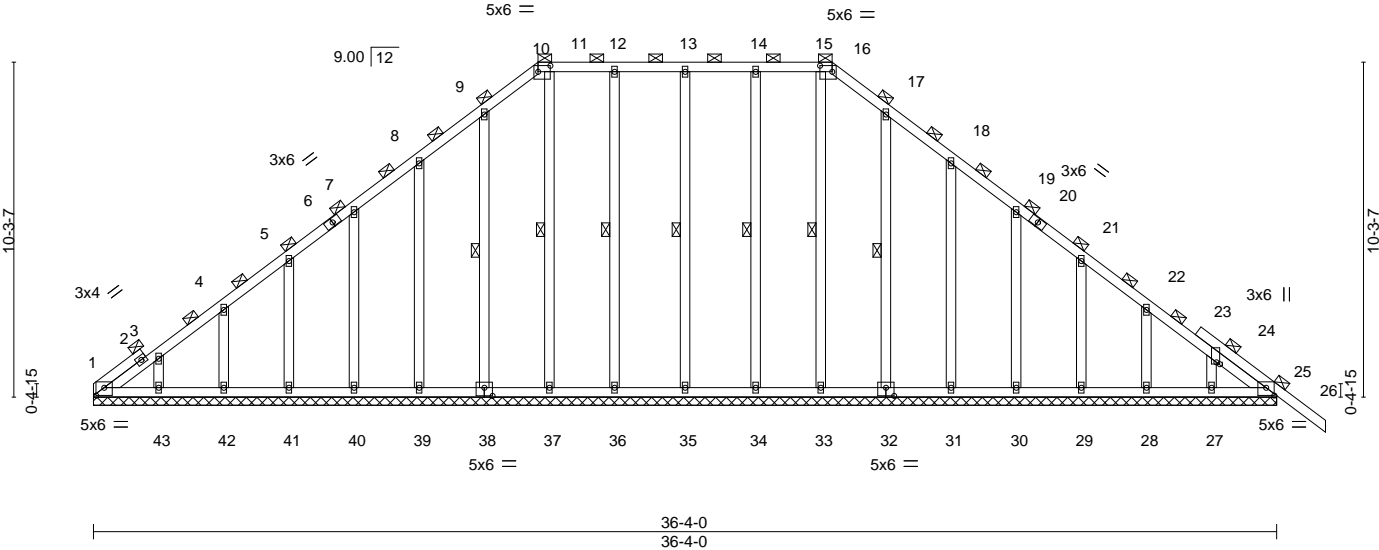
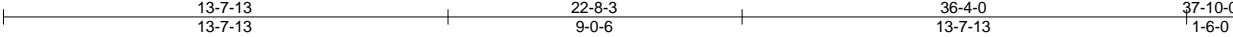


Plate Offsets (X,Y)--	[1:0-3-0,0-2-14], [10:0-4-8,0-2-4], [16:0-4-8,0-2-4], [24:0-0-11,0-1-4], [25:0-3-0,0-2-14], [32:0-3-0,0-3-0], [38:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	Vert(LL)	-0.01	26	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(CT)	-0.01	26	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.02	25	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						Weight: 284 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 13-35, 17-32, 15-33, 14-34, 9-38, 11-37, 12-36

REACTIONS.	All bearings 36-4-0. (lb) - Max Horz 1=-340(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 1, 35, 27, 32, 33, 34, 43, 37, 36, 25 except 28=-117(LC 13), 29=-129(LC 13), 30=-124(LC 13), 31=-138(LC 13), 42=-130(LC 12), 41=-126(LC 12), 40=-125(LC 12), 39=-135(LC 12), 38=-105(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 35, 27, 28, 29, 30, 31, 32, 33, 34, 43, 42, 41, 40, 39, 38, 37, 36, 25
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-333/265, 3-4=-269/247, 8-9=-153/269, 9-10=-192/314, 10-11=-165/285, 11-12=-165/285, 12-13=-165/285, 13-14=-165/285, 14-15=-165/285, 15-16=-165/285, 16-17=-192/314 BOT CHORD 1-43=-127/278, 42-43=-127/278, 41-42=-127/278, 40-41=-127/278, 39-40=-127/278, 38-39=-127/278, 37-38=-127/278, 36-37=-127/278, 35-36=-127/278, 34-35=-127/278, 33-34=-127/278, 32-33=-127/278, 31-32=-127/278, 30-31=-127/278, 29-30=-127/278, 28-29=-127/278, 27-28=-127/278, 25-27=-124/275
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NOTES-	1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 5) Provide adequate drainage to prevent water ponding. 6) All plates are 2x4 MT20 unless otherwise indicated. 7) Gable requires continuous bottom chord bearing. 8) 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) 1, 35, 27, 32, 33, 34, 43, 37, 36, 25 except (jt=lb) 28=117, 29=129, 30=124, 31=138, 42=130, 41=126, 40=125, 39=135, 38=105. 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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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:

March 4,2025

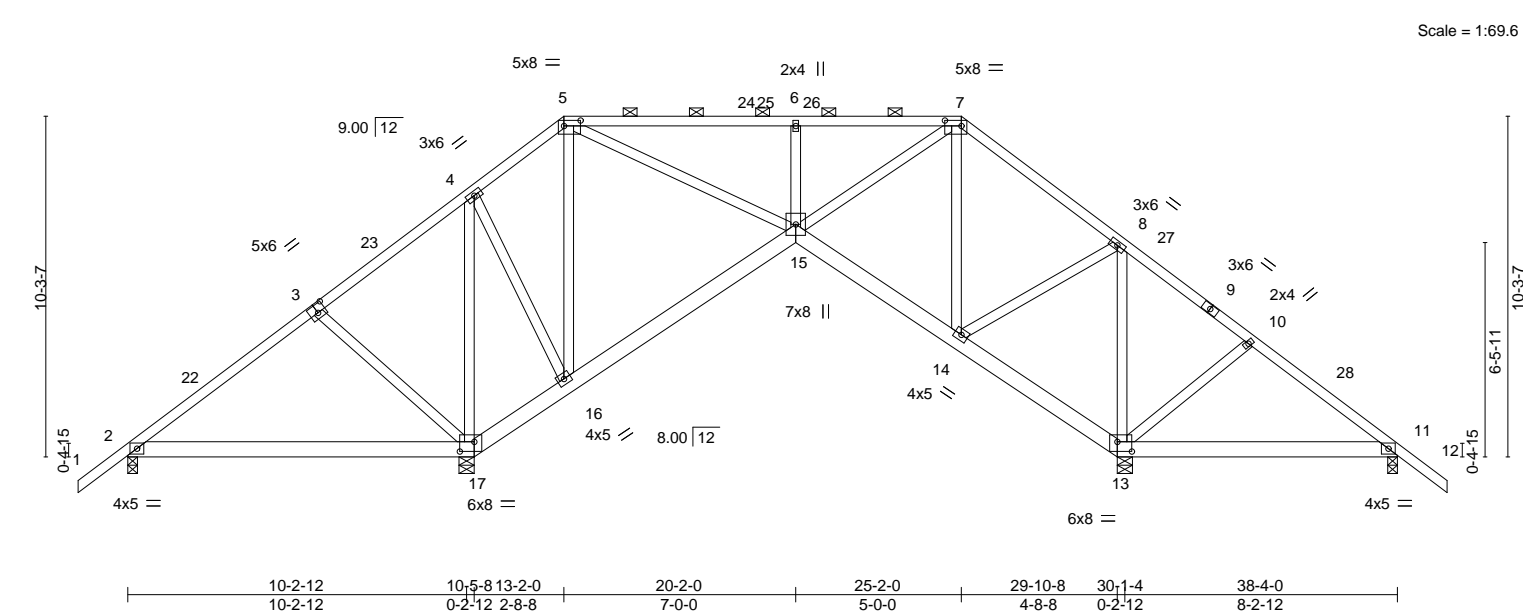
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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

**MiTek®**  
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559406
4496337	T05	Piggyback Base	9	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:47 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-dPaGUUR9moTUwk2RZapEUAoz3rZpqM6ZVGCp99zeccl



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.16 17-19 >784	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.23 17-19 >553				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.06 13 n/a				
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS							
								Weight: 270 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except
BOT CHORD	2x6 SP No.2		2'-0" oc purlins (6'-0" max.): 5'-7'.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6'-0" oc bracing.

**REACTIONS.** All bearings 0-3-8 except (jt=length) 17=0-5-8, 13=0-5-8.  
(lb) - Max Horz 2=-352(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=-169(LC 13), 17=-632(LC 9), 13=-422(LC 8), 11=-232(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=266(LC 25), 17=1452(LC 1), 13=1441(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-230/343, 3-4=-243/517, 4-5=-107/264, 5-6=-390/194, 6-7=-390/194, 7-8=-183/253, 8-10=-213/586, 10-11=-241/442  
BOT CHORD 2-17=-221/260, 16-17=-449/330, 15-16=-227/402, 14-15=-132/323, 13-14=-552/219, 11-13=-318/187  
WEBS 3-17=-312/298, 4-17=-849/320, 4-16=-179/548, 5-16=-584/298, 5-15=-228/532, 6-15=-427/299, 7-15=-287/503, 7-14=-475/232, 8-14=-176/523, 8-13=-871/186

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-4-0, Zone1 2-4-0 to 13-2-0, Zone2 13-2-0 to 18-7-1, Zone1 18-7-1 to 25-2-0, Zone2 25-2-0 to 30-7-1, Zone1 30-7-1 to 39-10-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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 169 lb uplift at joint 2, 632 lb uplift at joint 17, 422 lb uplift at joint 13 and 232 lb uplift at joint 11.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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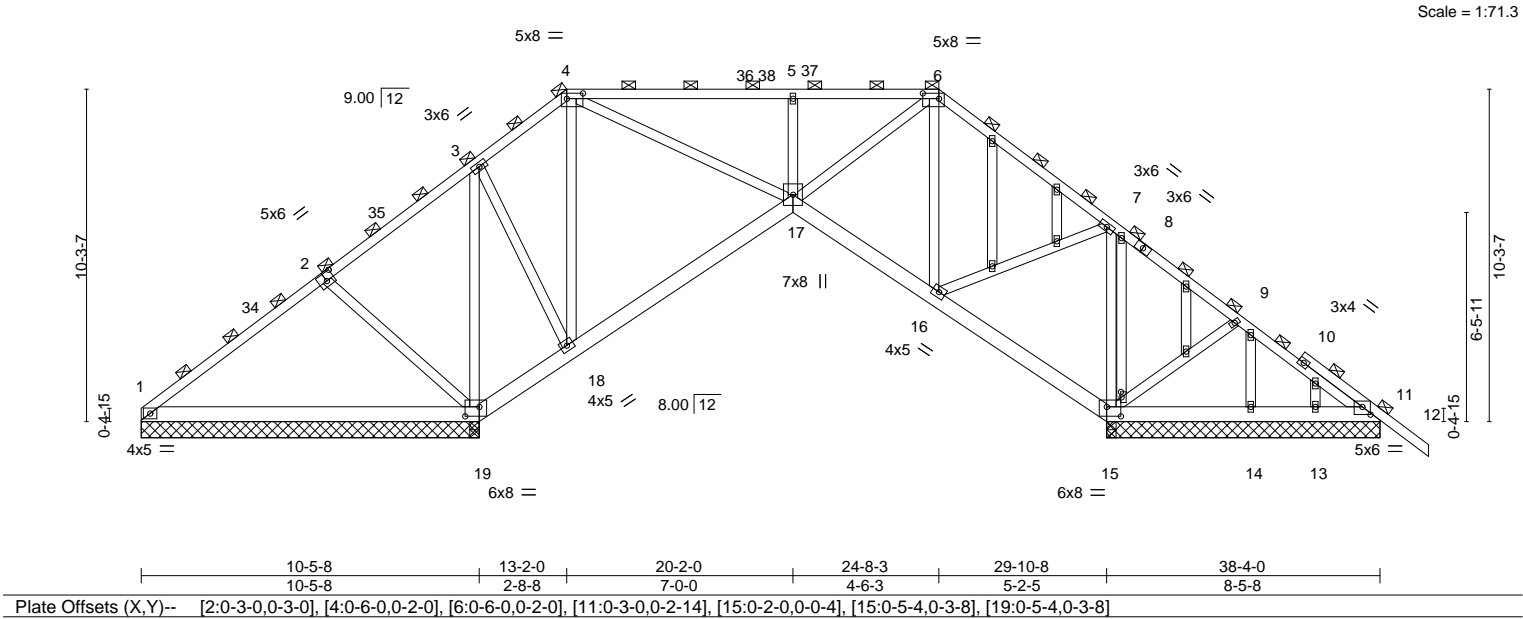
Philip J. O'Regan PE No.58126  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025



Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559407
4496337	T05G	GABLE Gable I Gable COMMON	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:48 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-6c8eiqSnX5bLYudd7IKT0OL8sFvyZpNijwyMibzccH  
5-9-0 10-5-8 13-2-0 20-2-0 24-8-3 29-10-8 33-10-0 38-4-0 39-10-0  
5-9-0 4-8-8 2-8-8 7-0-0 4-6-3 5-2-5 3-11-8 4-6-0 1-6-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.11 19-30 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.23 19-30 >544 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.06 15 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 294 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS	2x4 SP No.3		10-0-0 oc bracing: 16-17.
OTHERS	2x4 SP No.3		

**REACTIONS.** All bearings 8-5-8 except (jt=length) 1=10-5-8, 19=10-5-8, 19=10-5-8.  
(lb) - Max Horz 1=340(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 13, 14 except 1=146(LC 13), 19=552(LC 12), 15=409(LC 13), 11=189(LC 17)  
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 13, 14, 11 except 19=1461(LC 1), 19=1461(LC 1), 15=1382(LC 1), 15=1382(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=233/339, 2-3=239/514, 3-4=80/260, 4-5=401/208, 5-6=401/208, 7-9=219/612, 9-11=247/456  
BOT CHORD 1-19=216/275, 18-19=448/332, 17-18=239/403, 16-17=106/337, 15-16=564/218, 14-15=350/203, 13-14=350/203, 11-13=350/203  
WEBS 2-19=336/303, 3-19=848/362, 3-18=205/549, 4-18=589/280, 4-17=224/540, 5-17=414/293, 6-17=293/484, 6-16=440/214, 7-16=185/548, 7-15=893/219

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -0-0-0 to 3-10-0, Zone1 3-10-0 to 13-2-0, Zone2 13-2-0 to 18-7-1, Zone1 18-7-1 to 24-8-3, Zone2 24-8-3 to 30-0-4, Zone1 30-0-4 to 39-10-0 zone; porch 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 14 except (jt=lb) 1=146, 19=552, 15=409, 11=189, 11=189.
  - 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:

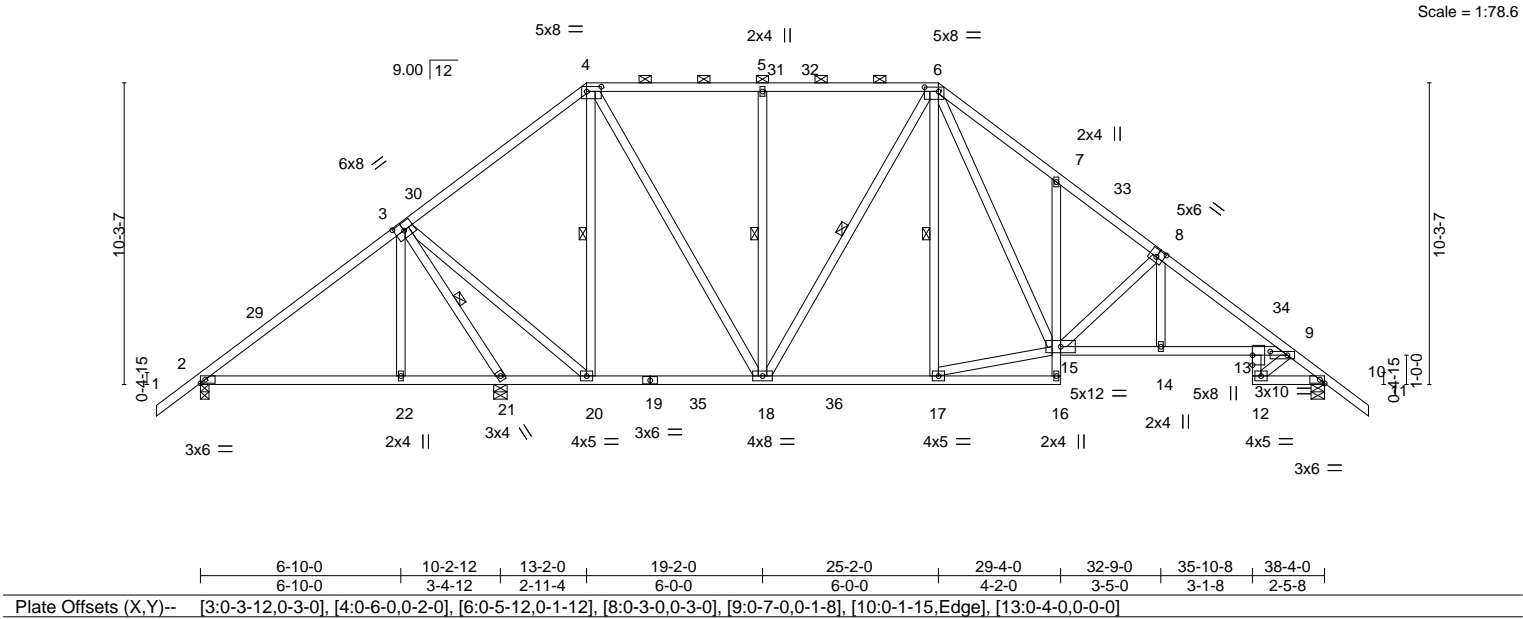
March 4,2025



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

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559409
4496337	T07	Piggyback Base	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:49 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-aoi0vATPIpJC92Cqg?riZbtGte7ulGOsyahwE1zeccG



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	Vert(LL) -0.20	13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.91	Vert(CT) -0.37	13-14	>911	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.17	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS					Weight: 280 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins, except
BOT CHORD 2x4 SP No.2 "Except"	2-0-0 oc purlins (6-0-0 max.): 4-6.
7-16: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-4-0 oc bracing.
9-15: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	WEBS 1 Row at midpt 3-21, 4-20, 5-18, 6-18, 6-17
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 10=0-5-8, 21=0-5-8  
Max Horz 2=352(LC 10)  
Max Uplift 2=202(LC 9), 10=479(LC 13), 21=573(LC 12)  
Max Grav 2=482(LC 25), 10=1273(LC 20), 21=1895(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-363/255, 3-4=-442/273, 4-5=-691/421, 5-6=-691/421, 6-7=-1546/783,  
7-8=-1562/612, 8-9=-2157/720, 9-10=-1662/597  
BOT CHORD 2-22=-347/281, 21-22=-346/280, 20-21=-1198/579, 18-20=-209/377, 17-18=-168/822,  
7-15=-240/251, 14-15=-400/1713, 13-14=-402/1725, 9-13=-305/1416, 12-13=-238/890,  
10-12=-366/1216  
WEBS 3-21=-2162/787, 3-20=-361/1728, 4-20=-908/264, 4-18=-354/965, 5-18=-415/294,  
6-18=-386/163, 15-17=-168/726, 6-15=-459/996, 8-15=-784/341, 8-14=-111/575,  
9-12=-1229/364

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-4-0, Zone1 2-4-0 to 13-2-0, Zone2 13-2-0 to 18-7-1, Zone1 18-7-1 to 25-2-0, Zone2 25-2-0 to 30-7-1, Zone1 30-7-1 to 39-10-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=202, 10=479, 21=573.
  - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

March 4,2025

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

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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559410
4496337	T08	Common	4	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:50 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-2\_GP6WU23jr3nCn0EjMx5pQV?2bP1wx?BERTmTzeccF

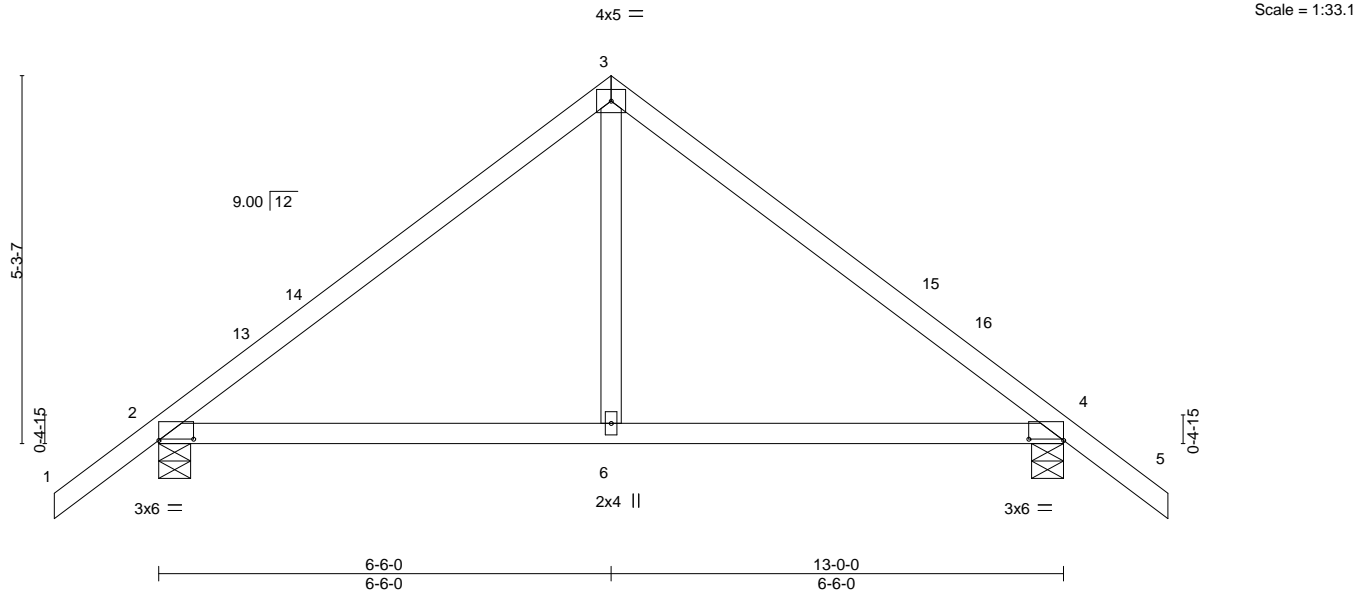


Plate Offsets (X,Y)--		[2:0-6-0,0-0-4], [4:0-6-0,0-0-4]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.51	Vert(LL)	0.08	6-9	>999	240		MT20		244/190			
TCDL	10.0	Lumber DOL		1.25		BC	0.44	Vert(CT)	-0.10	6-9	>999	180							
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.12	Horz(CT)	0.01	4	n/a	n/a							
BCDL	10.0	Code		FBC2023/TPI2014		Matrix-MS								Weight: 57 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.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=0-5-8, 4=0-5-8  
Max Horz 2=-191(LC 10)  
Max Uplift 2=-229(LC 12), 4=-229(LC 13)  
Max Grav 2=610(LC 1), 4=610(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-589/299, 3-4=-589/299  
BOT CHORD 2-6=-61/419, 4-6=-61/419  
WEBS 3-6=-33/307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-6-0, Zone2 6-6-0 to 10-8-15, Zone1 10-8-15 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=229, 4=229.

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  
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Date:

March 4,2025

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:50 2025 Page 1  
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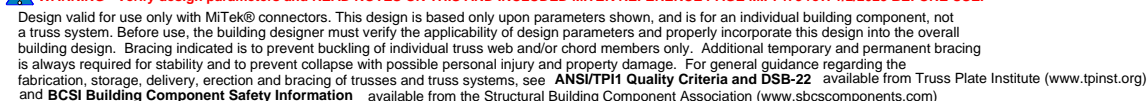
<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0" 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" tall by 2'-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, 10 except (jt=lb) 15=132, 16=111, 13=132, 12=114.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

March 4.2025



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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559412
4496337	T09	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:51 2025 Page 1

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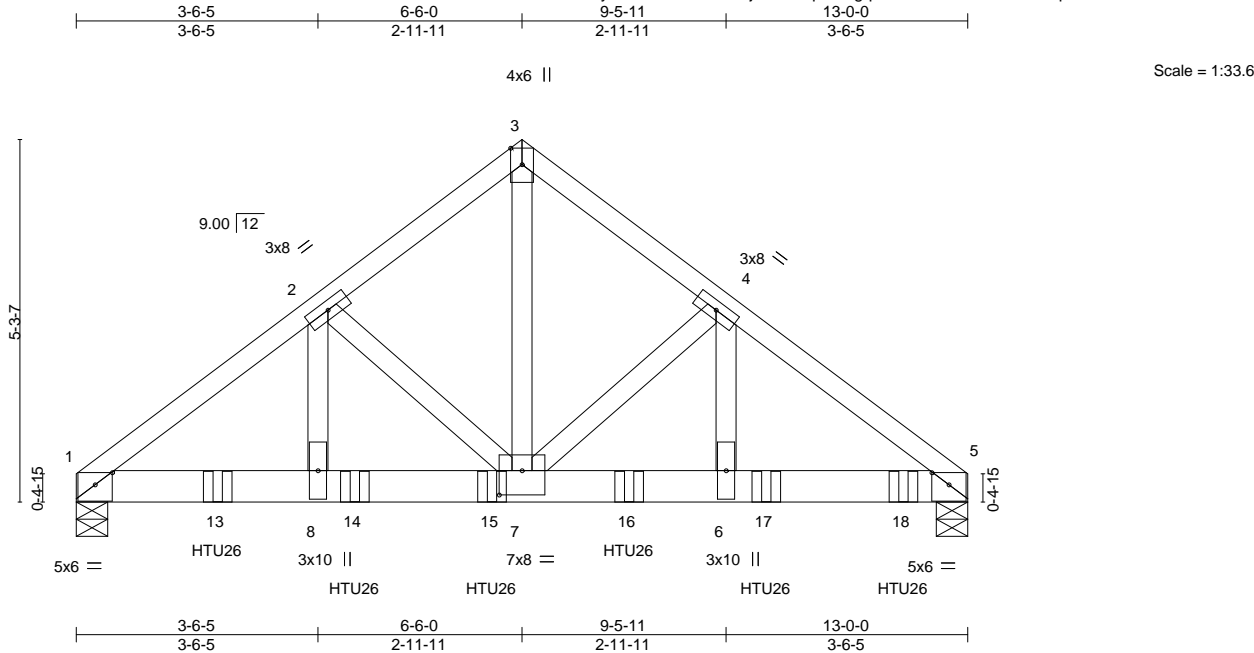


Plate Offsets (X,Y)--		[1:0-3-0,0-2-2], [5:0-3-0,0-2-2], [7:0-4-0,0-4-4]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.12	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TP12014		Matrix-MS						Weight: 159 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-3 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-7: 2x4 SP No.2	

REACTIONS.	(size) 1=0-5-8, 5=0-5-8
	Max Horz 1=-155(LC 6)
	Max Uplift 1=-1603(LC 8), 5=-1873(LC 9)
	Max Grav 1=4747(LC 2), 5=5561(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-6861/2312, 2-3=-4776/1671, 3-4=-4790/1673, 4-5=-6991/2355
BOT CHORD	1-8=-1882/5476, 7-8=-1882/5476, 6-7=-1839/5593, 5-6=-1839/5593
WEBS	3-7=-1892/5517, 4-7=-2398/928, 4-6=-892/2734, 2-7=-2241/874, 2-8=-841/2584

- 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 0-5-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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=1603, 5=1873.
  - Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-0-12 to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Date:

March 4,2025

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.
4496337	T09	Common Girder	1	2	T36559412

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:51 2025 Page 2  
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**LOAD CASE(S)** Standard  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-5=-60, 1-5=-20  
Concentrated Loads (lb)  
Vert: 13=-1431(B) 14=-1431(B) 15=-1431(B) 16=-1431(B) 17=-1431(B) 18=-1432(B)

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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559413
4496337	V01	GABLE	1	1	Job Reference (optional)	

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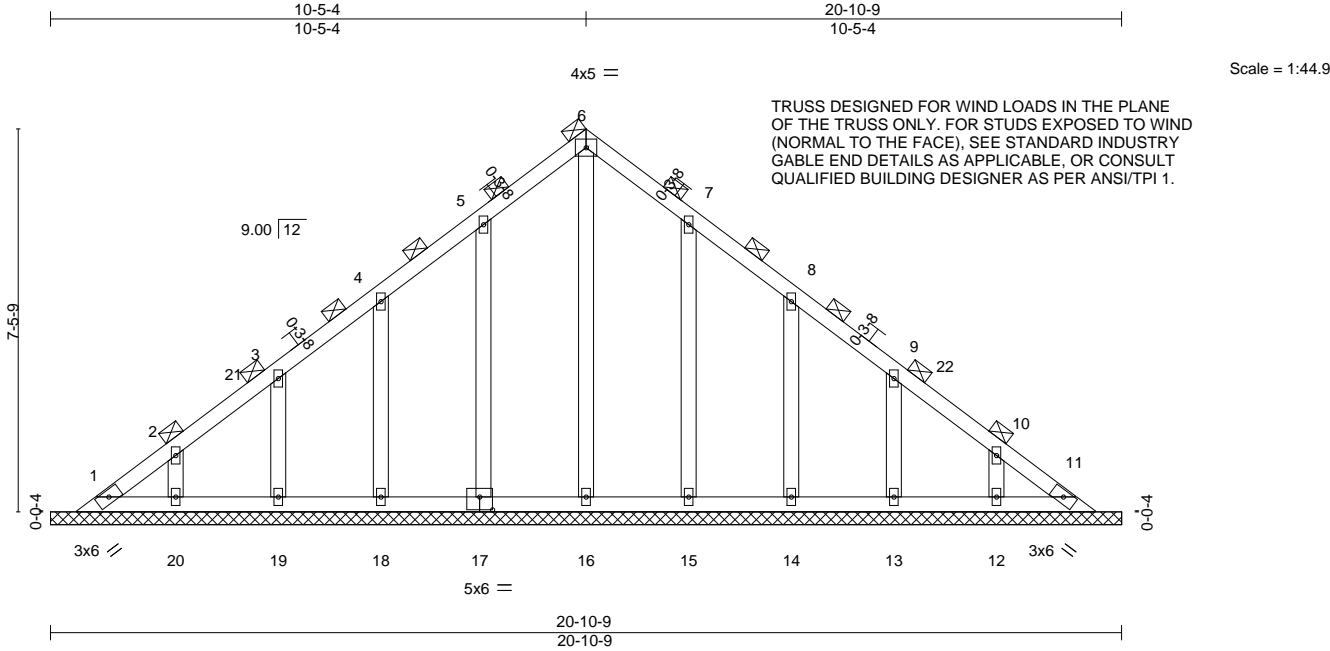


Plate Offsets (X,Y)-- [17:0-3-0,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S					Weight: 113 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	

**REACTIONS.** All bearings 20-10-9.  
(lb) - Max Horz 1=227(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=130(LC 12), 18=129(LC 12), 19=127(LC 12), 20=124(LC 12), 15=126(LC 13), 14=129(LC 13), 13=127(LC 13), 12=124(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 19, 20, 15, 14, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-11-1 to 3-11-1, Zone1 3-11-1 to 10-5-4, Zone2 10-5-4 to 14-5-4, Zone1 14-5-4 to 19-11-7 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11 except (jt=lb) 17=130, 18=129, 19=127, 20=124, 15=126, 14=129, 13=127, 12=124.
  - 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.

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

March 4,2025

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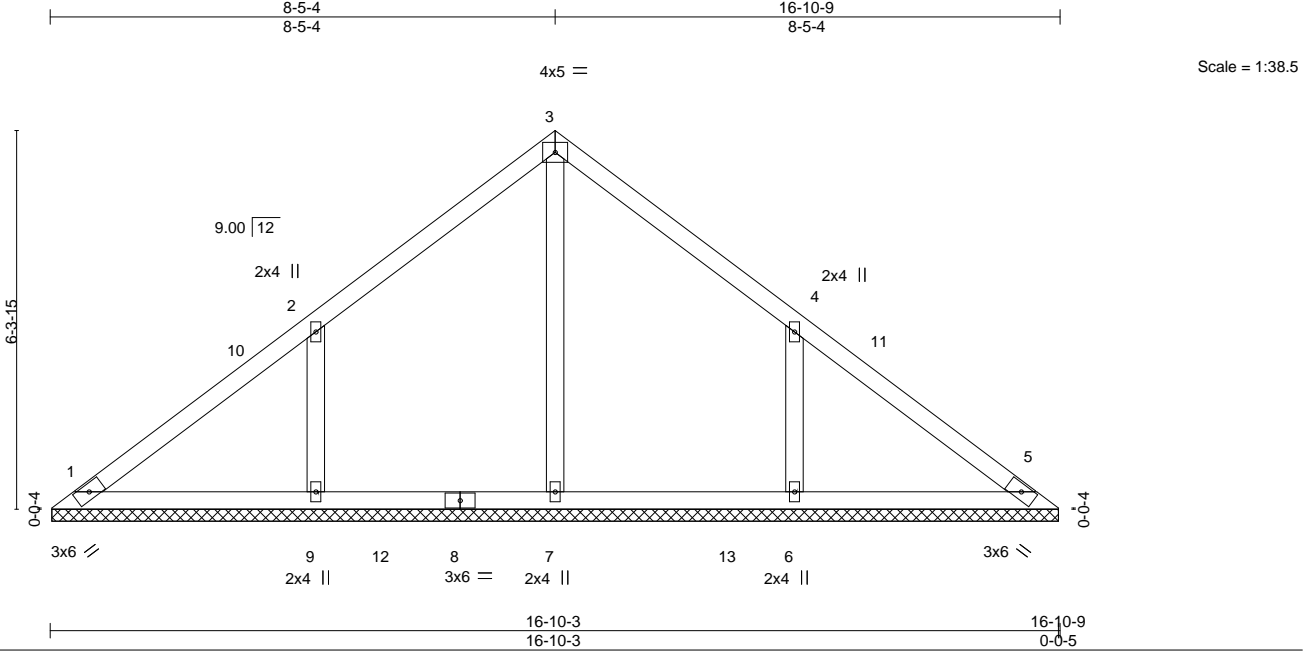


Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559414
4496337	V02	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:52 2025 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.22	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 72 lb	FT = 20%

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

**REACTIONS.** All bearings 16-9-14.  
(lb) - Max Horz 1=191(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=307(LC 12), 6=307(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=352(LC 22), 9=516(LC 19), 6=516(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-9=336/323, 4-6=336/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 8-5-4, Zone2 8-5-4 to 12-5-4, Zone1 12-5-4 to 16-5-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=307, 6=307.

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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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025

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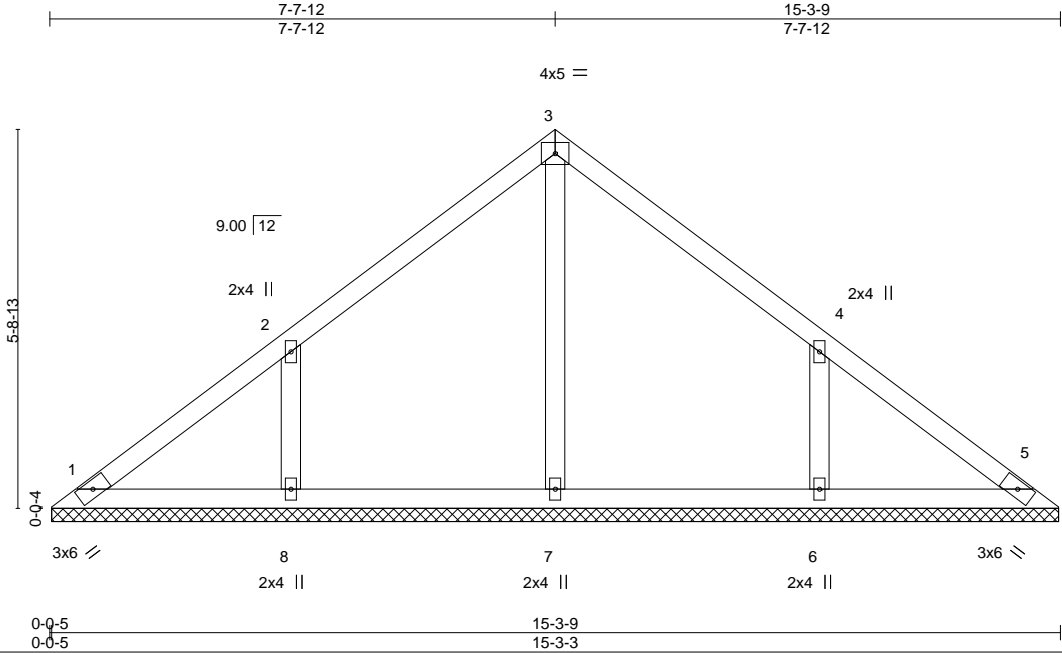
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559415
4496337	V03	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:53 2025 Page 1  
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 64 lb	FT = 20%

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

**REACTIONS.** All bearings 15-2-14.  
(lb) - Max Horz 1=-172(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-276(LC 12), 6=-275(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=388(LC 19), 6=388(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-303/311, 4-6=-303/311

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-7-12, Zone1 3-7-12 to 7-7-12, Zone2 7-7-12 to 11-7-12, Zone1 11-7-12 to 14-10-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=276, 6=275.

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:

March 4,2025

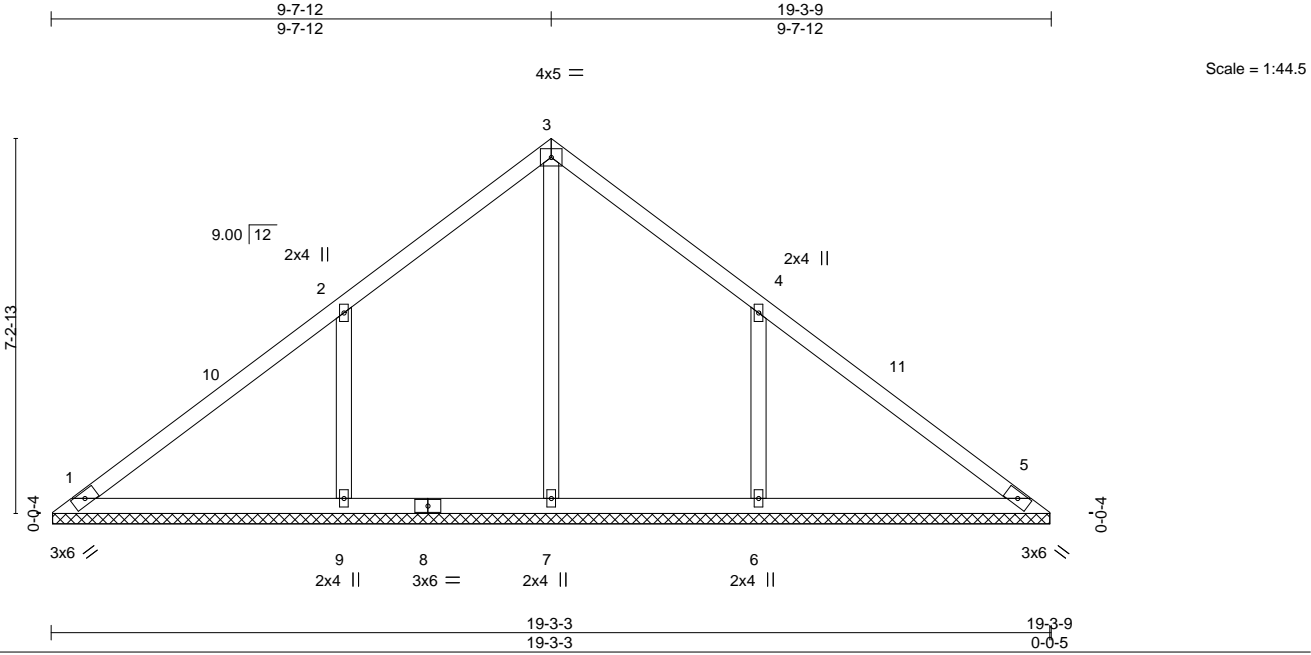
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559416
4496337	V04	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:53 2025 Page 1  
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559417
4496337	V05	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:54 2025 Page 1

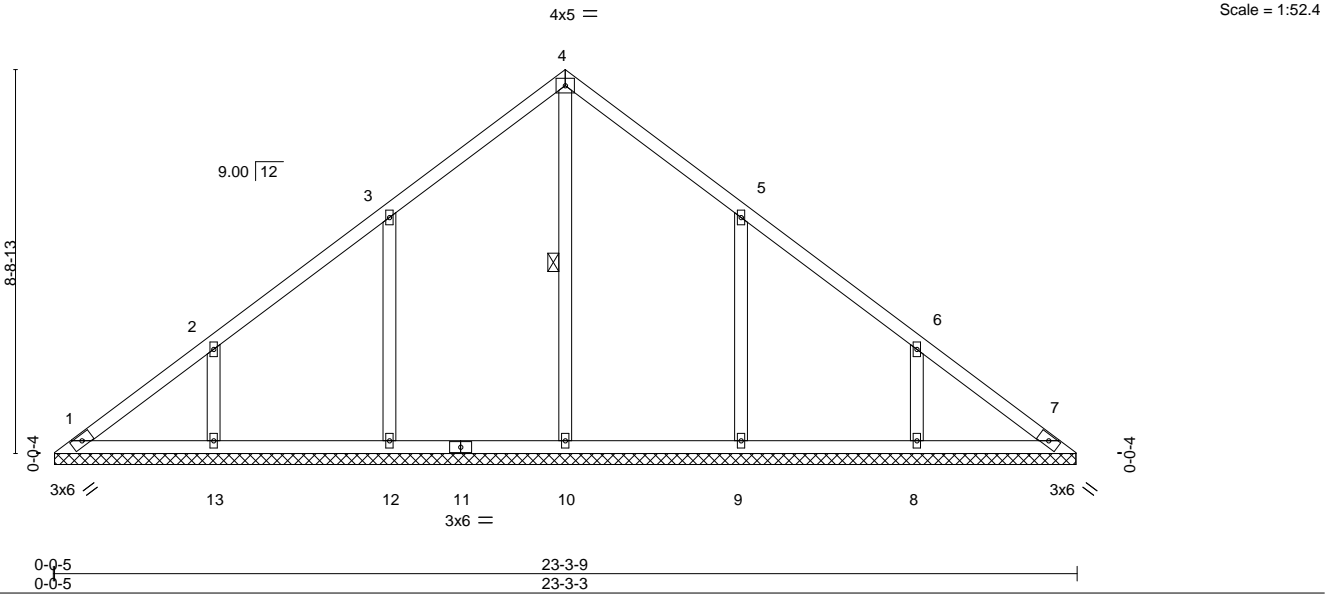
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23-3-9

11-7-12

11-7-12

11-7-12



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 110 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	WEBS 1 Row at midpt 4-10

**REACTIONS.** All bearings 23-2-14.

(lb) - Max Horz 1=-268(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-274(LC 12), 13=-249(LC 12), 9=-274(LC 13), 8=-249(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=410(LC 22), 12=476(LC 19), 13=415(LC 19), 9=476(LC 20), 8=415(LC 20)

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

WEBS 3-12=-308/300, 2-13=-274/265, 5-9=-308/299, 6-8=-274/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-7-12, Zone1 3-7-12 to 11-7-12, Zone2 11-7-12 to 15-7-12, Zone1 15-7-12 to 22-10-5 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=274, 13=249, 9=274, 8=249.

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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:

March 4,2025

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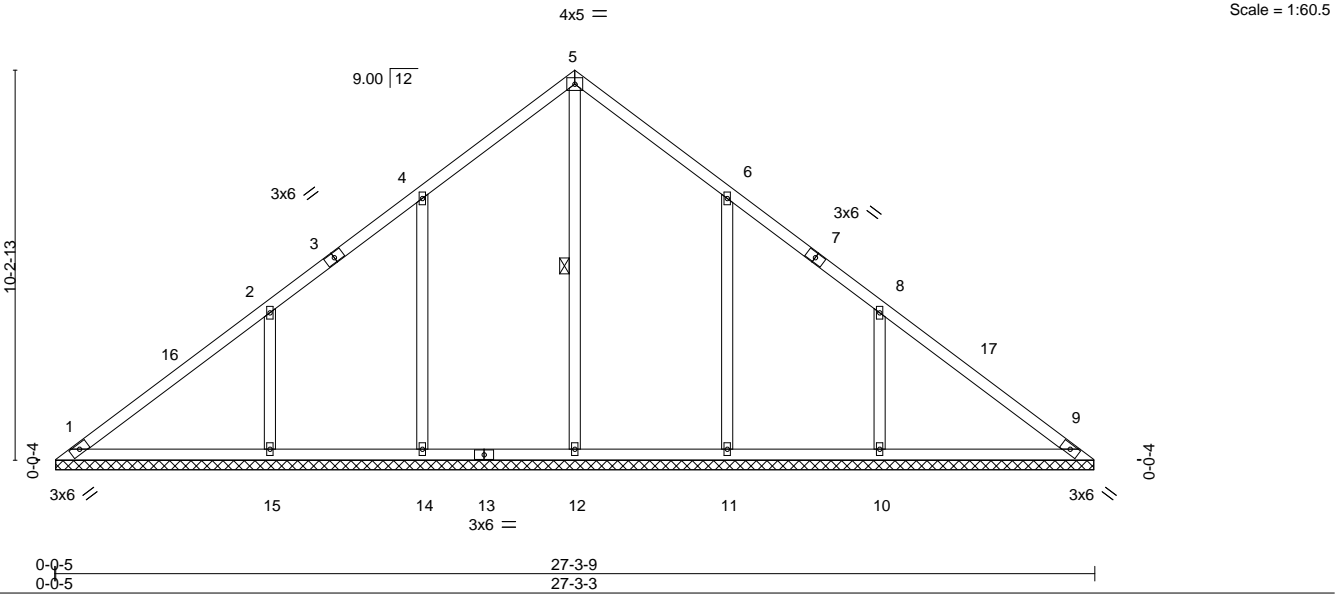
**MiTek®**  
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559418
4496337	V06	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:54 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-wmVvytXY6xMUGp4nTYRtGfbEyf?gzhb6sPhvFzeccB

13-7-12 13-7-12 27-3-9 13-7-12



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.23	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 135 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
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 5-12

**REACTIONS.** All bearings 27-2-14.  
(lb) - Max Horz 1=-316(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 14=-242(LC 12), 15=-344(LC 12), 11=-241(LC 13), 10=-344(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 9 except 1=274(LC 20), 12=438(LC 22), 14=458(LC 19), 15=604(LC 19), 11=458(LC 20), 10=605(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-268/241, 4-5=-195/278  
WEBS 4-14=-276/270, 2-15=-373/358, 6-11=-275/269, 8-10=-373/358

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 13-7-12, Zone2 13-7-12 to 17-7-12, Zone1 17-7-12 to 26-10-5 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 14=242, 15=344, 11=241, 10=344.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

March 4,2025

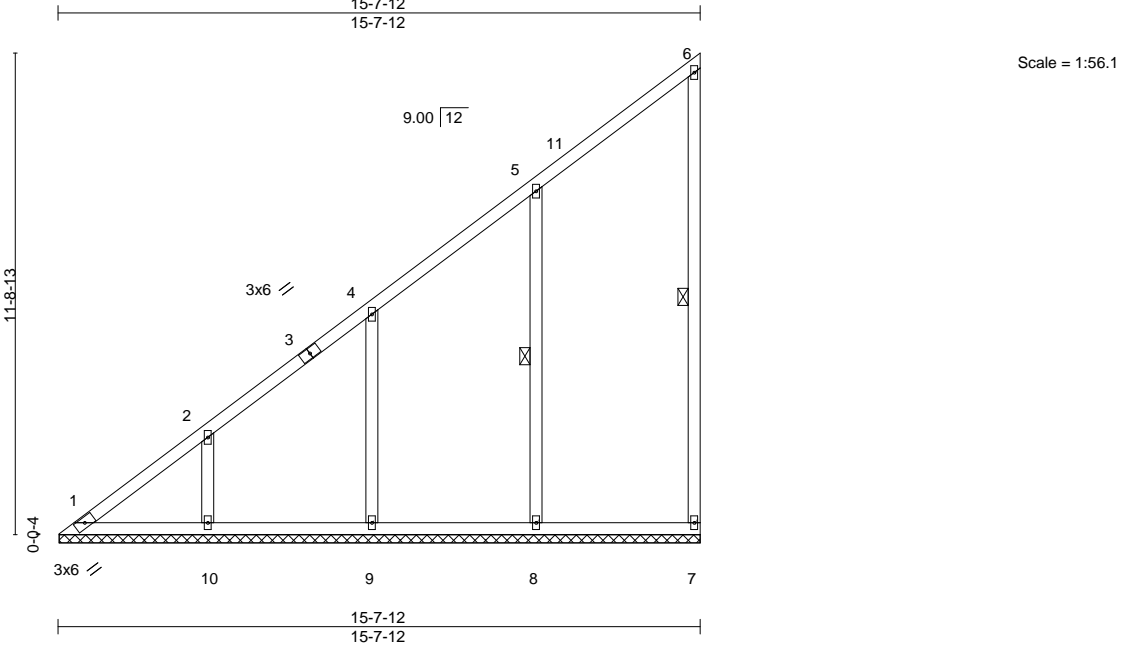
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559419
4496337	V07	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:55 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-Oy3IADXAiFULtzf\_1Gy6os7QX3LPi9ZkKV8ERhzeccA



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.16	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 91 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 5-8
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 15-7-7.  
(lb) - Max Horz 1=563(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 7=100(LC 12), 8=273(LC 12), 9=250(LC 12), 10=255(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 7 except 1=345(LC 12), 8=528(LC 19), 9=445(LC 19), 10=423(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-648/434, 2-4=-469/316, 4-5=-311/199  
WEBS 5-8=-307/306, 4-9=-280/274, 2-10=-282/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-7-12, Zone1 3-7-12 to 15-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 7=100, 8=273, 9=250, 10=255.

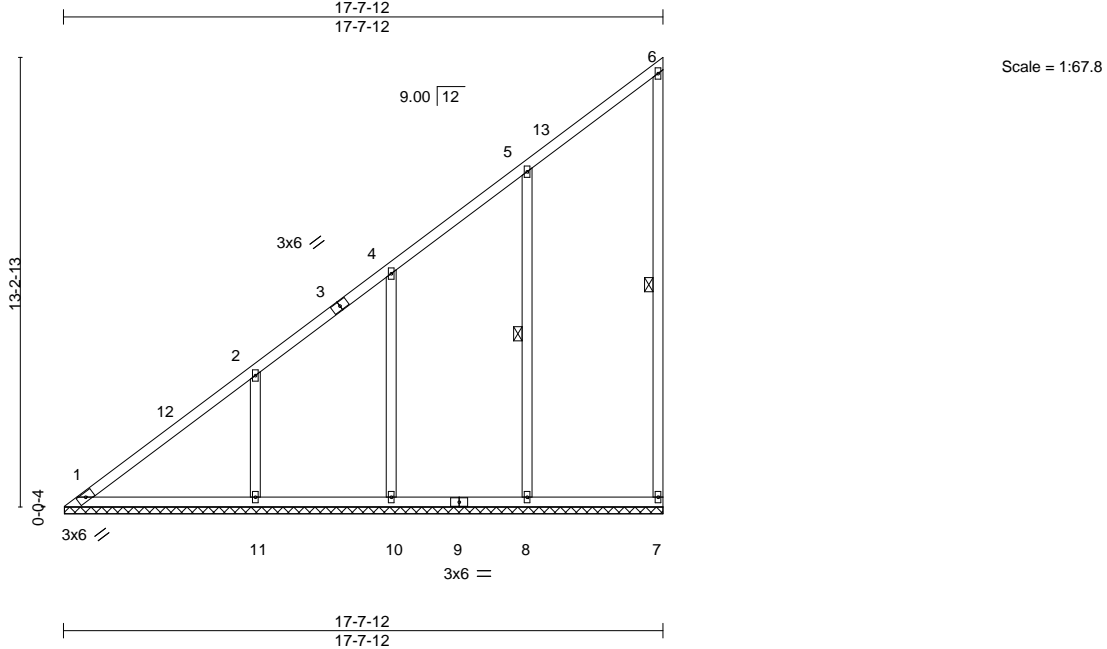
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Date:

March 4,2025

Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559420
4496337	V08	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:55 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-Oy3IADXAiFULtzf\_1Gy6os7ON3LxiUkkV8ERhzecCA



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.22	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 107 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-7, 5-8
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 17-7-7.
(lb) - Max Horz	1=637(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 7, 1 except 8=281(LC 12), 10=218(LC 12), 11=349(LC 12)
Max Grav	All reactions 250 lb or less at joint(s) 7 except 1=346(LC 21), 8=537(LC 19), 10=427(LC 19), 11=611(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-699/458, 2-4=-455/291, 4-5=-291/196
WEBS	5-8=-315/308, 2-11=-379/363

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 17-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 1 except (jt=lb) 8=281, 10=218, 11=349.

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March 4,2025



Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559421
4496337	V09	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:56 2025 Page 1  
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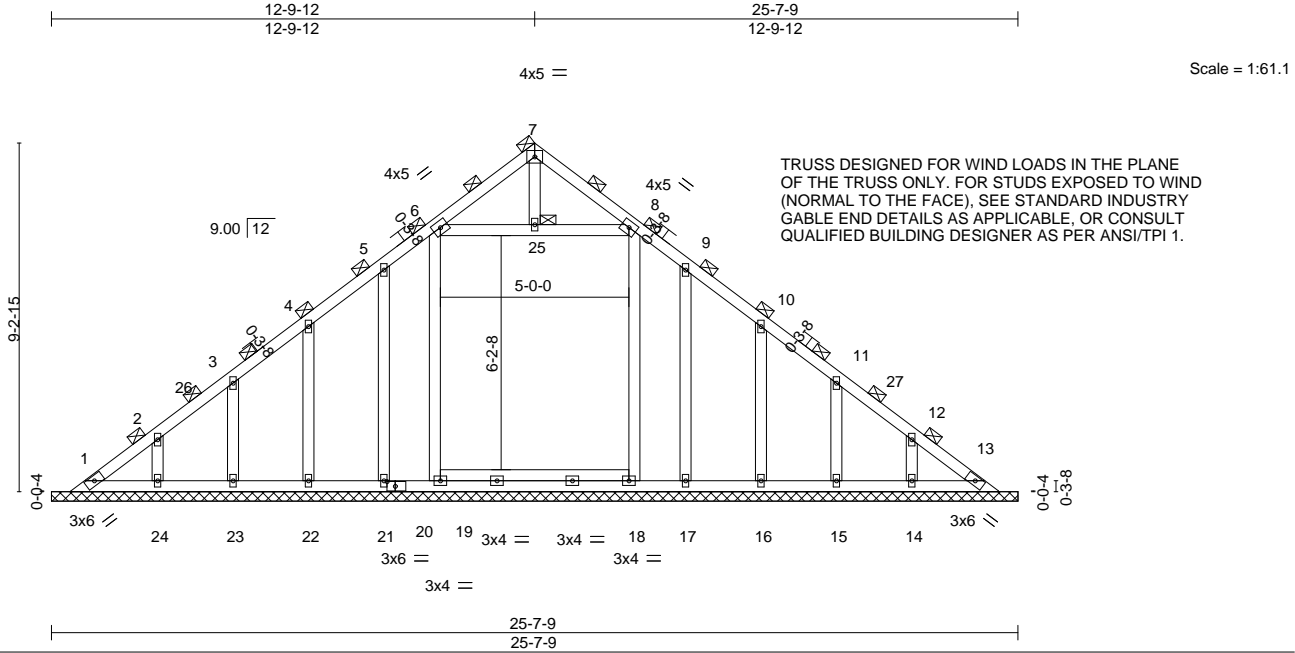


Plate Offsets (X,Y)--		[8:0-0-0,0-0-0], [20:0-2-10,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.09
TCDL 10.0	Lumber DOL	1.25	BC 0.17
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) n/a - n/a 999
			Vert(CT) n/a - n/a 999
			Horz(CT) 0.01 13 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 159 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.
WEBS 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 7, 25
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 25-7-9.  
(lb) - Max Horz 1=284(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 19, 21, 17 except 22=134(LC 12), 23=123(LC 12), 24=139(LC 12), 16=135(LC 13), 15=123(LC 13), 14=139(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 13, 21, 22, 23, 24, 17, 16, 15, 14 except 19=431(LC 19), 18=384(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=257/220, 5-6=152/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-11-1 to 3-11-1, Zone1 3-11-1 to 12-9-12, Zone2 12-9-12 to 16-9-12, Zone1 16-9-12 to 24-8-7 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 19, 21, 17 except (jt=lb) 22=134, 23=123, 24=139, 16=135, 15=123, 14=139.
  - 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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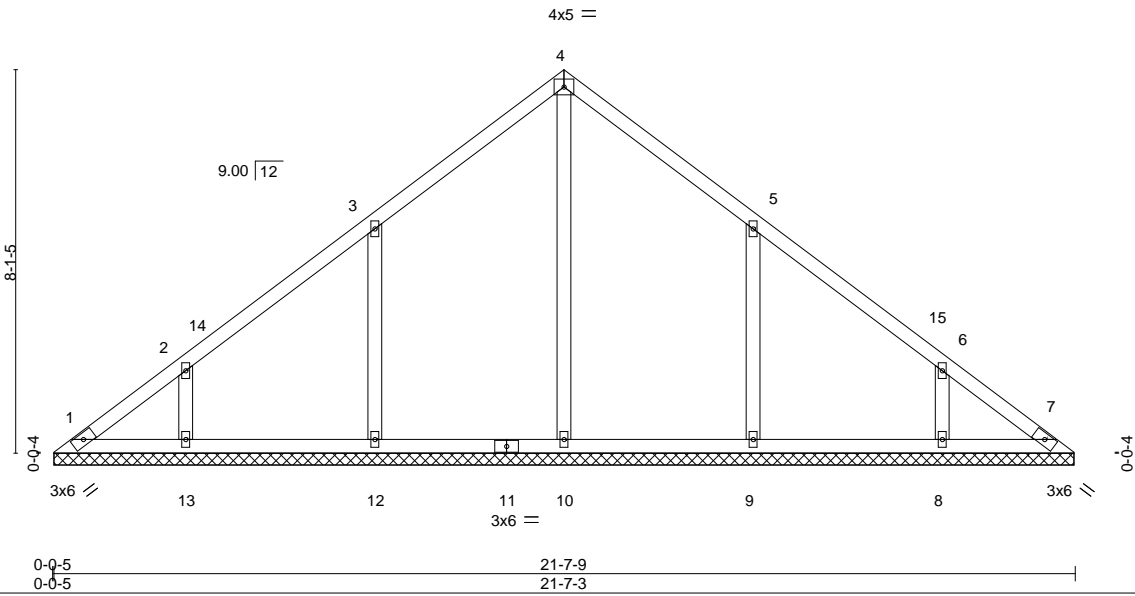
Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559422
4496337	V10	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:57 2025 Page 1

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10-9-12 10-9-12 21-7-9 21-7-9 10-9-12



Scale = 1:48.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 100 lb	FT = 20%

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

**REACTIONS.** All bearings 21-6-14.  
(lb) - Max Horz 1=-248(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-280(LC 12), 13=-220(LC 12), 9=-280(LC 13), 8=-220(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=397(LC 22), 12=487(LC 19), 13=366(LC 19), 9=486(LC 20), 8=367(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 3-12=-314/305, 5-9=-314/305

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 10-9-12, Zone2 10-9-12 to 14-9-12, Zone1 14-9-12 to 21-2-5 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) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=280, 13=220, 9=280, 8=220.

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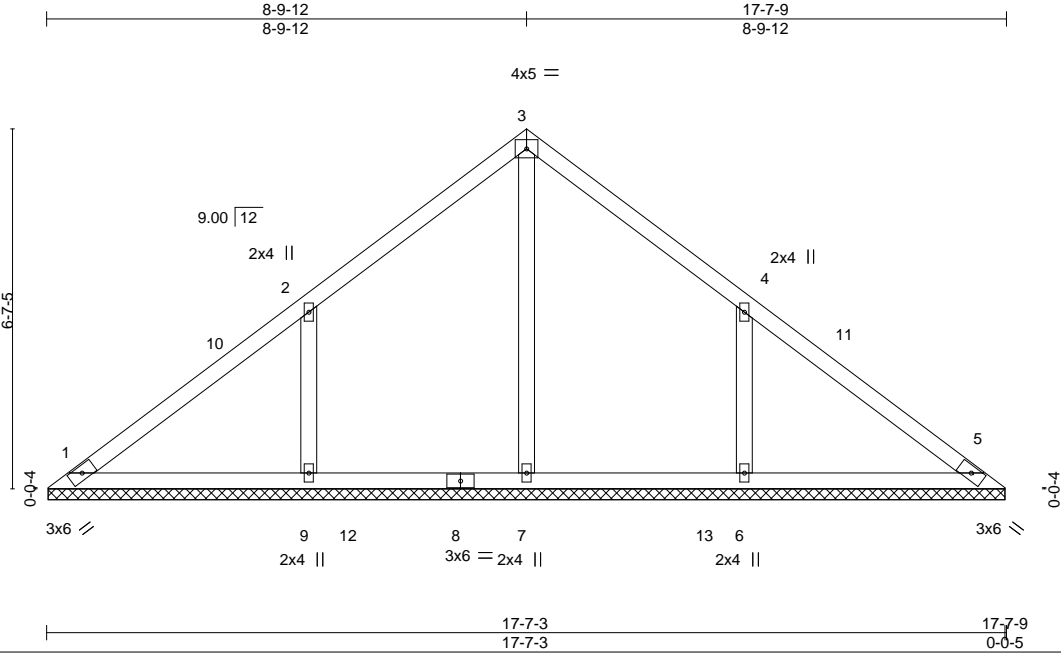
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559423
4496337	V11	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:57 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-LLB2avZRPsk37HpM8h\_auHdMt2BA4d1opdLWazec8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.24	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 75 lb	FT = 20%

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

**REACTIONS.** All bearings 17-6-14.  
(lb) - Max Horz 1=200(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=324(LC 12), 6=323(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=351(LC 22), 9=550(LC 19), 6=549(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-9=-354/339, 4-6=-354/339

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 8-9-12, Zone2 8-9-12 to 12-9-12, Zone1 12-9-12 to 17-2-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=324, 6=323.

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:

March 4,2025

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

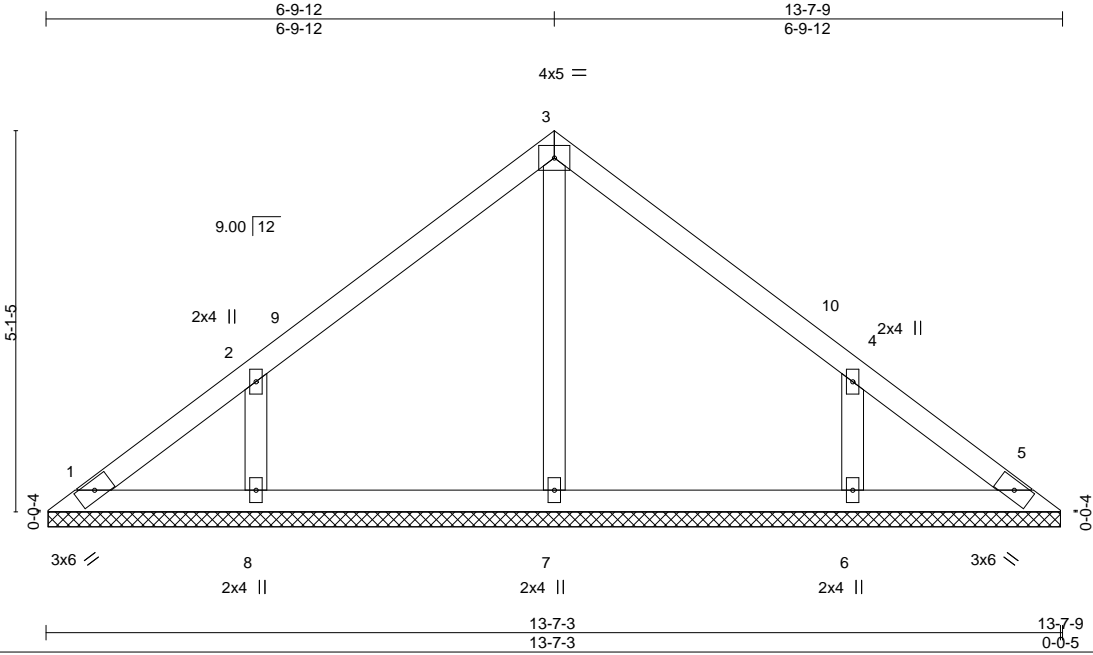
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559424
4496337	V12	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:58 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-pXIqoFa3AAswkQOYiOVpQVluwHPGvXHB1TNu20zecc7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 55 lb	FT = 20%

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

**REACTIONS.** All bearings 13-6-14.  
(lb) - Max Horz 1=-152(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-251(LC 12), 6=-251(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=254(LC 1), 8=350(LC 19), 6=350(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-8=-279/316, 4-6=-279/316

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 6-9-12, Zone2 6-9-12 to 10-9-12, Zone1 10-9-12 to 13-2-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (jt=lb) 8=251, 6=251.

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Date:

March 4,2025

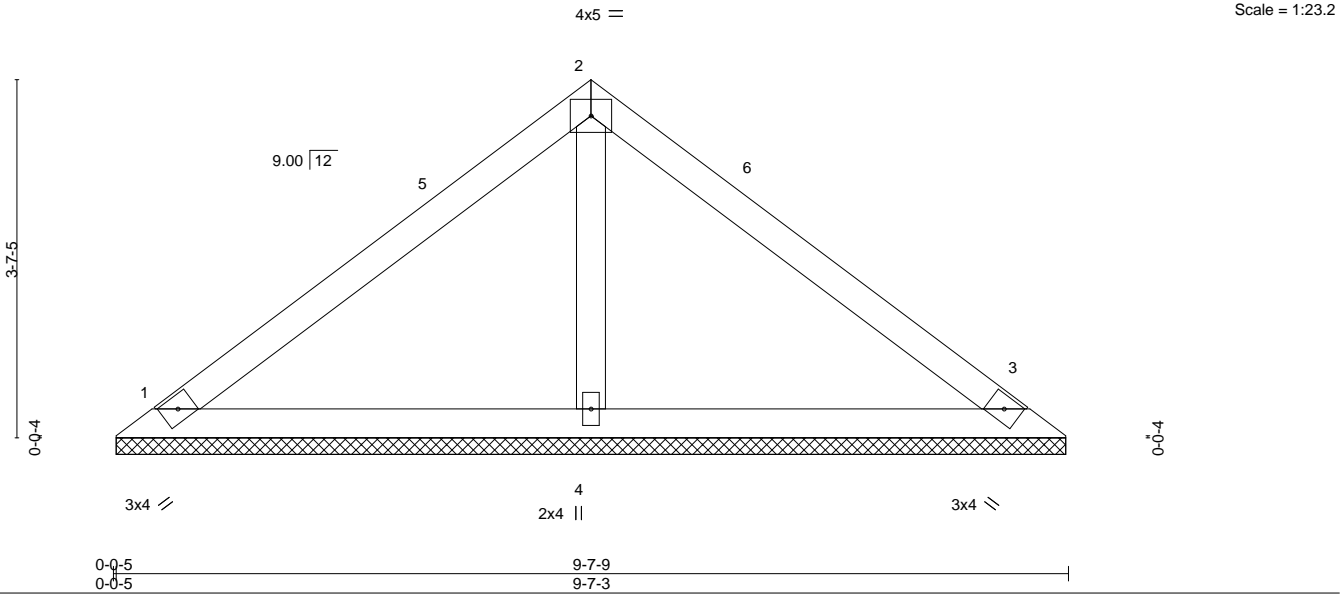
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559425
4496337	V13	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:58 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-pXIQoFa3AAswkQOYiOVpQVluAHN7vYrB1TNu20zecc7  
4-9-12 4-9-12 9-7-9 4-9-12



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.37	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S					Weight: 35 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) 1=9-6-14, 3=9-6-14, 4=9-6-14  
Max Horz 1=-105(LC 8)  
Max Uplift 1=-73(LC 12), 3=-87(LC 13), 4=-89(LC 12)  
Max Grav 1=179(LC 1), 3=179(LC 1), 4=342(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-4 to 3-5-4, Zone1 3-5-4 to 4-9-12, Zone3 4-9-12 to 9-2-5 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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March 4,2025

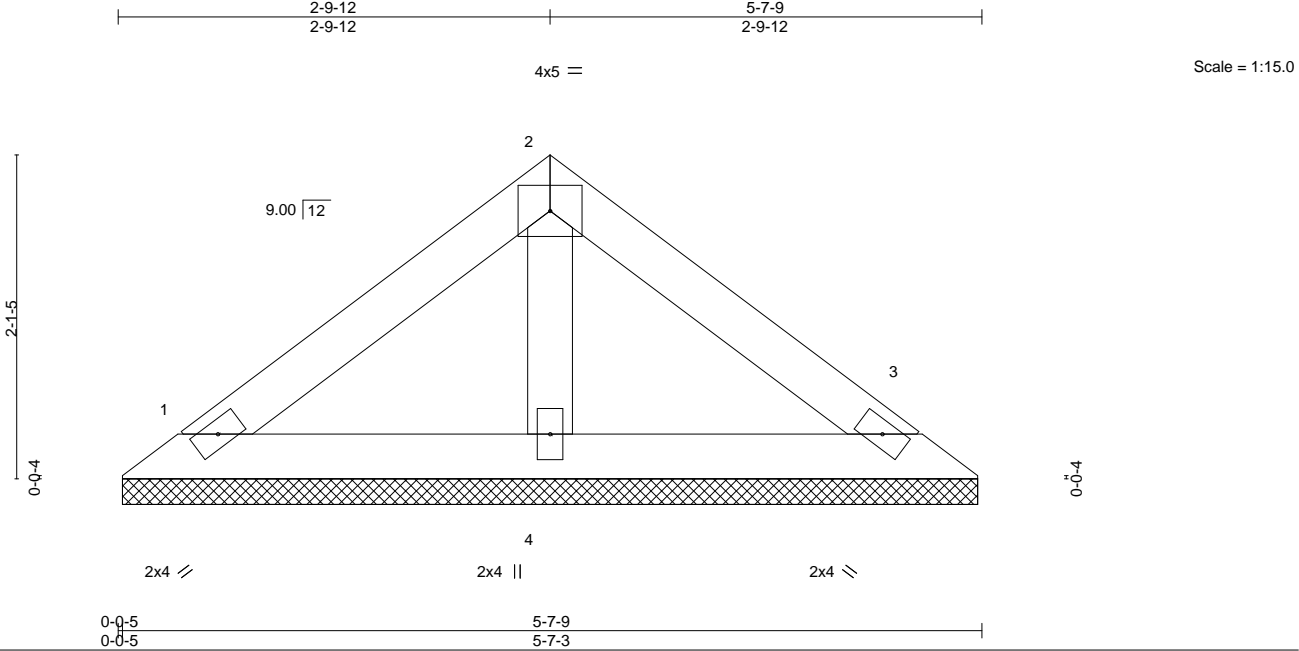
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Job	Truss	Truss Type	Qty	Ply	BOUSQUET RES.	T36559426
4496337	V14	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Mon Mar 3 13:45:59 2025 Page 1  
ID:4WBbPV0W1yKcQUKaeAh??0zejYa-HjJo?abhxU\_nMazlG612zil5aglUe?LKF76SaSzec6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 19 lb	FT = 20%
	Code FBC2023/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-9 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) 1=5-6-14, 3=5-6-14, 4=5-6-14  
Max Horz 1=57(LC 9)  
Max Uplift 1=48(LC 12), 3=56(LC 13), 4=32(LC 12)  
Max Grav 1=106(LC 1), 3=106(LC 1), 4=168(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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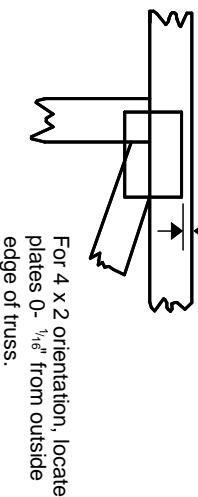
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Date:

March 4,2025



## Symbols

### PLATE LOCATION AND ORIENTATION



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

### PLATE SIZE

**4 X 4**

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

### LATERAL BRACING LOCATION



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

### BEARING

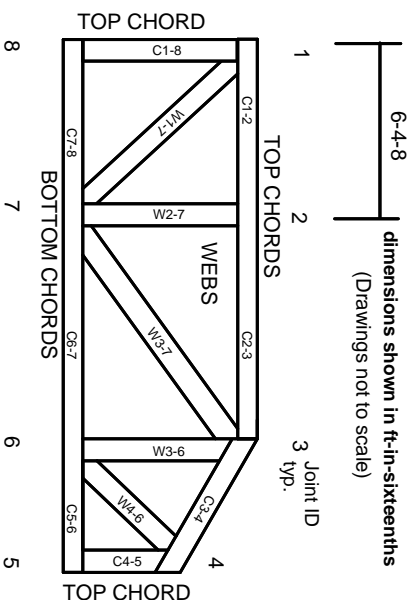


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

### Industry Standards:

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

## Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:

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

## Design General Notes

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

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

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# MITek®

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.