



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

RE: 4434202 - YUNCK RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Randy Yunck Project Name: Yunek Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
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: 37.0 psf Floor Load: N/A psf

This package includes 25 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	T36527062	PB01	2/27/25	15	T36527076	V04	2/27/25
2	T36527063	PB01G	2/27/25	16	T36527077	V05	2/27/25
3	T36527064	T01	2/27/25	17	T36527078	V06	2/27/25
4	T36527065	T01G	2/27/25	18	T36527079	V07	2/27/25
5	T36527066	T02	2/27/25	19	T36527080	V08	2/27/25
6	T36527067	T02G	2/27/25	20	T36527081	V09	2/27/25
7	T36527068	T03	2/27/25	21	T36527082	V10	2/27/25
8	T36527069	T04	2/27/25	22	T36527083	V11	2/27/25
9	T36527070	T05	2/27/25	23	T36527084	V12	2/27/25
10	T36527071	T06	2/27/25	24	T36527085	V13	2/27/25
11	T36527072	T06G	2/27/25	25	T36527086	V14	2/27/25
12	T36527073	V01	2/27/25				
13	T36527074	V02	2/27/25				
14	T36527075	V03	2/27/25				

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

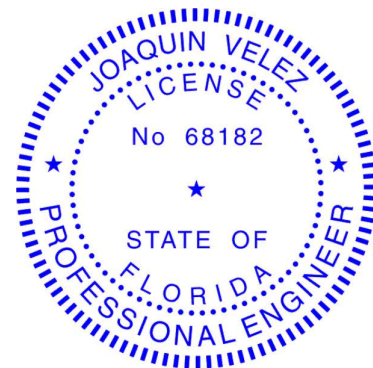
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin

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

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



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

February 27, 2025

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527062
4434202	PB01	Piggyback	16	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:24 2025 Page 1
ID:7WKR8toudn35dxwKwBAfQtytHta-AJPzkVI54Dxo2sgWEolQ5ziAJiWY9Xxb0mKXmzh?IH

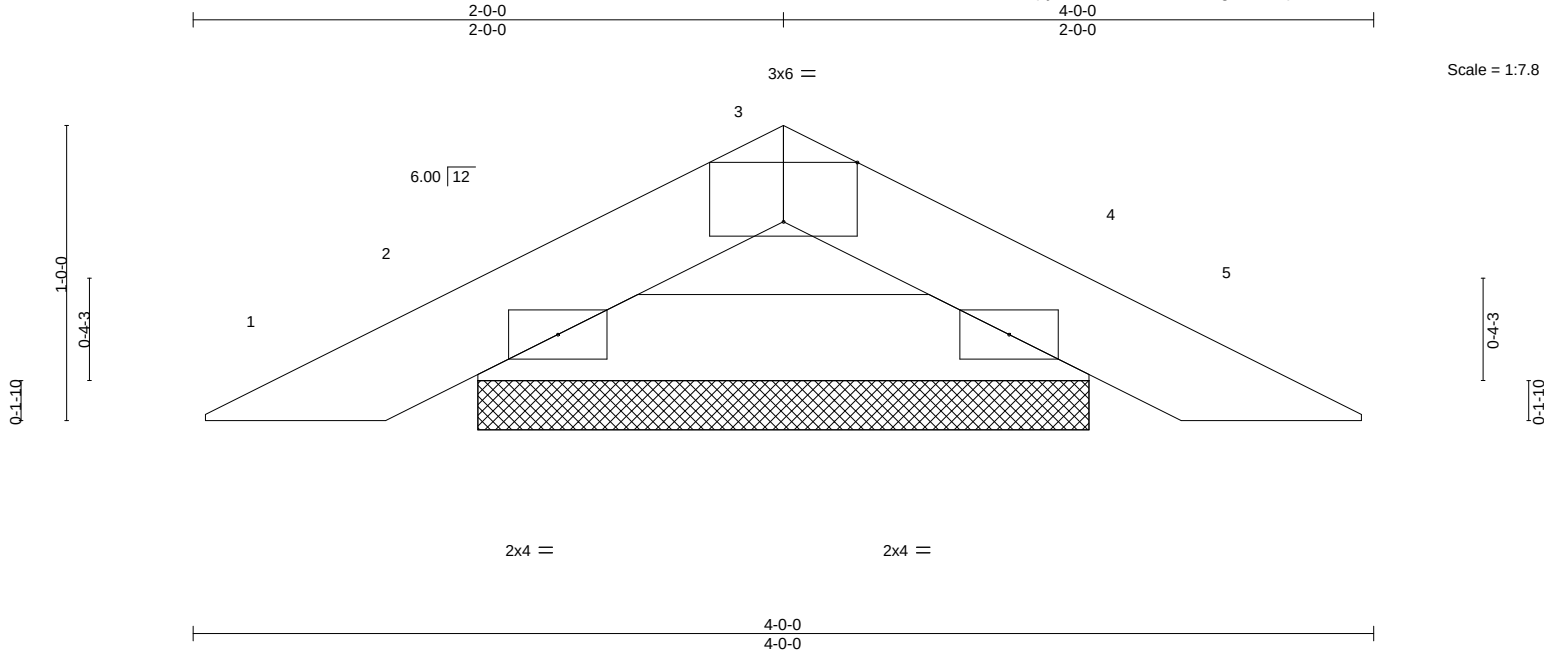


Plate Offsets (X,Y)--		[3:0-3-0,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06
TCDL 7.0	Lumber DOL	1.25	BC 0.05
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 4 n/r 120
			Vert(CT) -0.00 4 n/r 120
			Horz(CT) 0.00 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 10 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-0-14, 4=2-0-14
Max Horz 2=-18(LC 17)
Max Uplift 2=-53(LC 12), 4=-53(LC 13)
Max Grav 2=110(LC 1), 4=110(LC 1)

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

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

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

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

Date:
February 27,2025

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®

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

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527063
4434202	PB01G	PIGGYBACK	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
 Lake City, FL - 32055,
 8.830 s Feb 18 2025 MiTek Industries, Inc.

Thu Feb 27 07:31:25 2025
 Page 1
 ID:7WKr8toudn35dxwKwBAfQtytHta-eVzMxrJjrW3fg0FioMJ_zlVTjj2UHcn4pgWt4Czh?lG

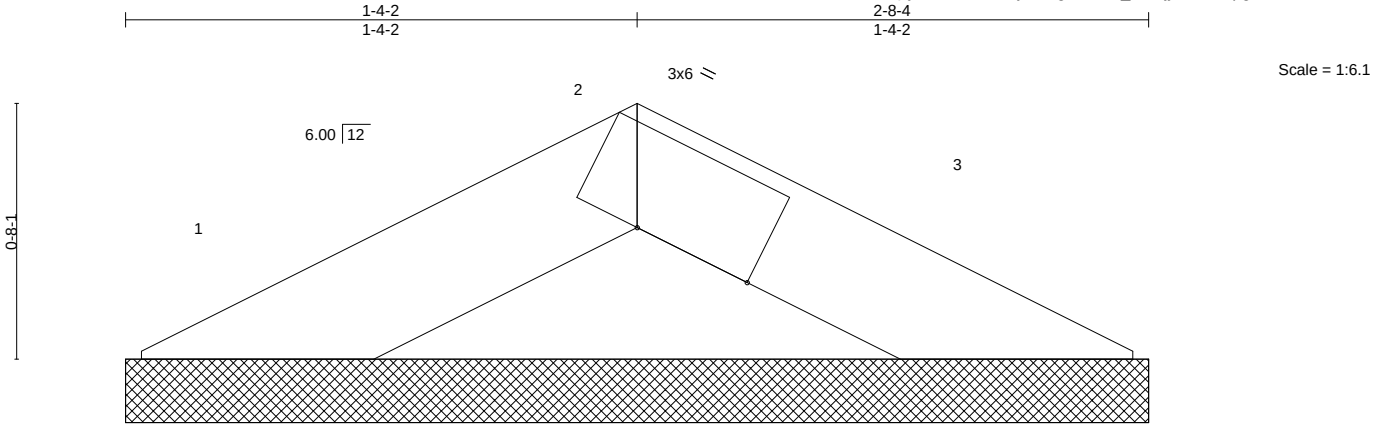


Plate Offsets (X,Y)--		[2:0-3-14,Edge]									
LOADING	(psf)	SPACING-		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL		1.25	TC	0.08	Vert(LL)	n/a	-	n/a	999
TCDL	7.0	Lumber DOL		1.25	BC	0.00	Vert(CT)	n/a	-	n/a	999
BCLL	0.0 *	Rep Stress Incr		YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-P						
										Weight: 4 lb	
										FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-4 oc purlins.
REACTIONS.		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
(size)	1=2-8-4, 3=2-8-4		
Max Horz	1=11(LC 12)		
Max Uplift	1=-35(LC 12), 3=-35(LC 13)		
Max Grav	1=54(LC 1), 3=54(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 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.

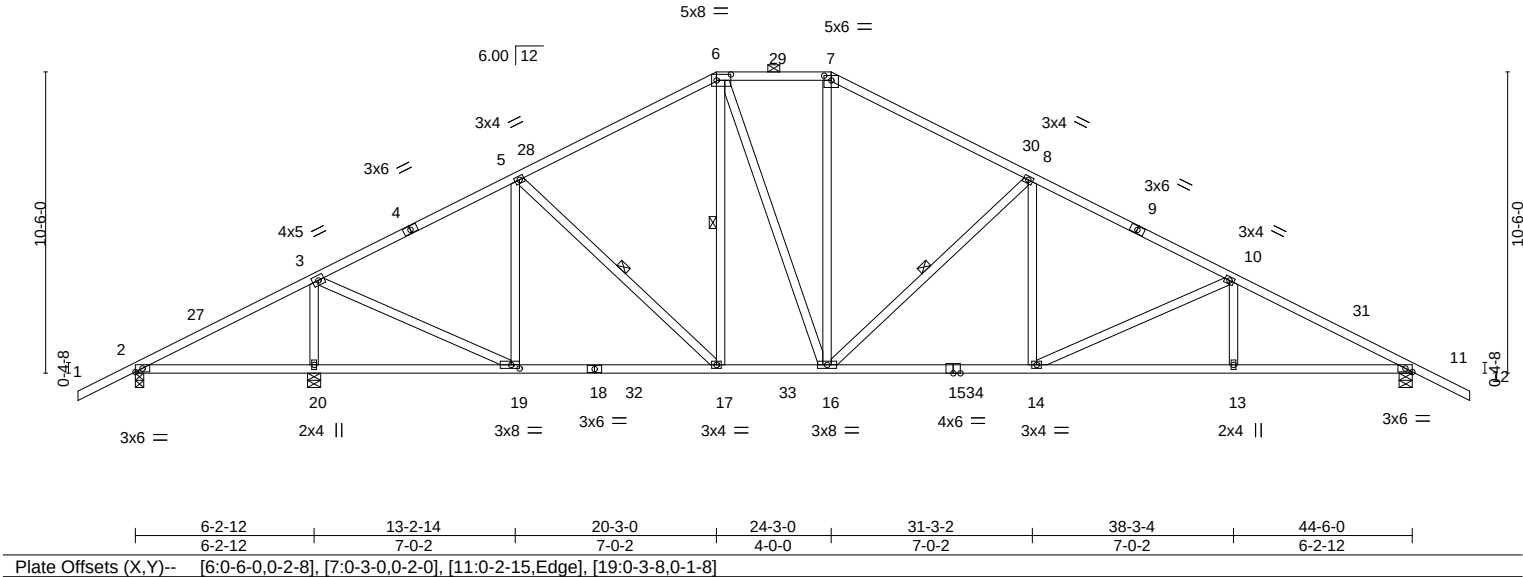
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Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 Date:

February 27,2025

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527064
4434202	T01	Piggyback Base	16	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:25 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-eVzMxrJjrW3fg0FioMJ_zlVMVjrnHRd4pgWt4Czh?IG
-2-0-0 6-2-12 13-2-14 20-3-0 24-3-0 31-3-2 38-3-4 44-6-0 46-6-0
2-0-0 6-2-12 7-0-2 7-0-2 4-0-0 7-0-2 7-0-2 6-2-12 2-0-0
Scale = 1:80.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.20 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.88	Vert(CT)	-0.35 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.08 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 269 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-11-0 max.): 6-7.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS 1 Row at midpt 5-17, 6-17, 8-16

REACTIONS.	(size) 2=0-3-8, 20=0-5-8, 11=0-5-8
	Max Horz 2=240(LC 16)
	Max Uplift 2=-135(LC 8), 20=-773(LC 12), 11=-641(LC 13)
	Max Grav 2=154(LC 25), 20=2202(LC 2), 11=1600(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-258/696, 3-5=-1376/542, 5-6=-1508/665, 6-7=-1394/690, 7-8=-1630/701, 8-10=-2304/871, 10-11=-2871/1050
BOT CHORD	2-20=-554/335, 19-20=-554/335, 17-19=-359/1170, 16-17=-254/1280, 14-16=-517/2004, 13-14=-808/2521, 11-13=-808/2521
WEBS	3-20=-1942/793, 3-19=-504/1876, 5-19=-543/262, 5-17=-47/260, 6-16=-228/410, 7-16=-153/474, 8-16=-844/494, 8-14=-101/542, 10-14=-572/353, 10-13=0/258

- 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 -2-0-0 to 2-5-6, Zone1 2-5-6 to 20-3-0, Zone3 20-3-0 to 24-3-0, Zone2 24-3-0 to 30-6-8, Zone1 30-6-8 to 46-6-0 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=135, 20=773, 11=641.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
February 27,2025

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527065
4434202	T01G	GABLE	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:26 2025 Page 1
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-2-0-0 20-10-14 23-7-2 44-6-0 46-6-0
2-0-0 20-10-14 2-8-4 20-10-14 2-0-0
Scale = 1:84.4

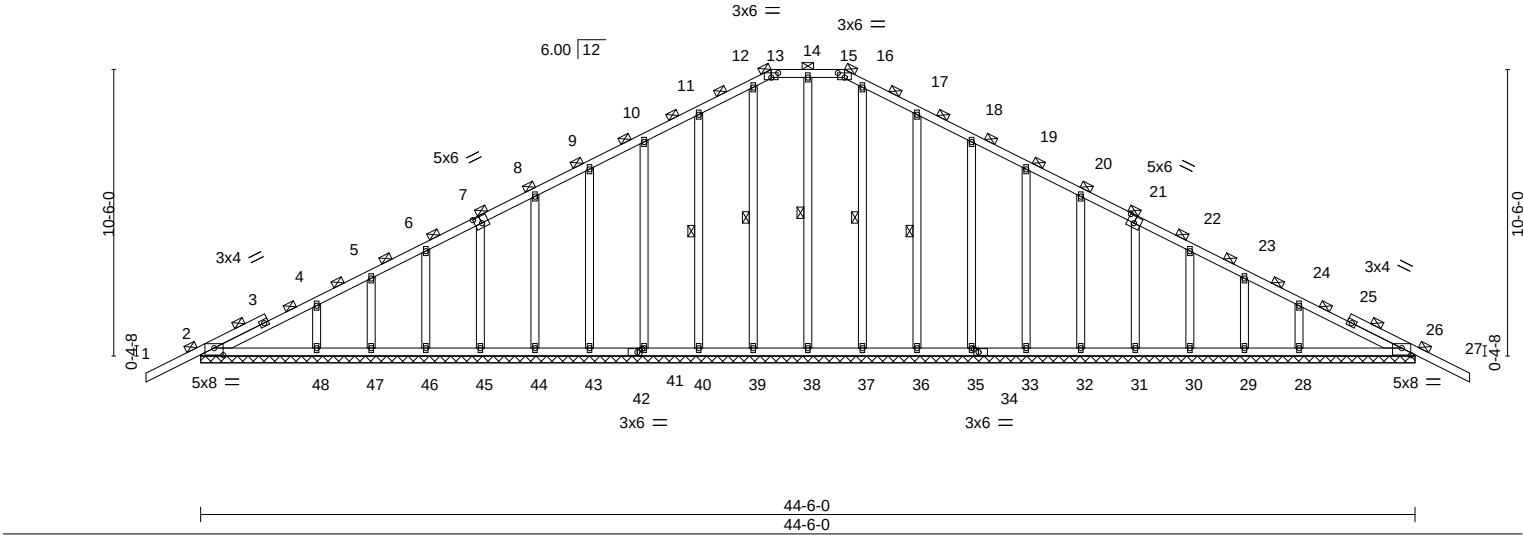


Plate Offsets (X,Y)-- [2:0-4-0,0-3-1], [7:0-3-0,0-3-0], [13:0-3-0,0-2-0], [15:0-3-0,0-2-0], [21:0-3-0,0-3-0], [26:0-4-0,0-3-1], [34:0-2-0,0-1-8], [42:0-2-0,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.32	Vert(LL)	-0.01	27	n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.12	Vert(CT)	-0.02	27	n/r	120	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.13	Horz(CT)	0.02	26	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 318 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 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 14-38, 12-39, 11-40, 16-37, 17-36

REACTIONS. All bearings 44-6-0.
(lb) - Max Horz 2=-240(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 38, 39, 41, 43, 44, 45, 46, 47, 35, 33, 32, 31, 30, 29, 26
except 40=-110(LC 12), 48=-124(LC 12), 36=-115(LC 13), 28=-133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 38, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 35, 33, 32, 31,
30, 29 except 2=275(LC 25), 48=258(LC 25), 28=258(LC 26), 26=275(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-275/119, 9-10=-86/295, 10-11=-107/364, 11-12=-131/445, 12-13=-132/439,
13-14=-126/440, 14-15=-126/440, 15-16=-132/439, 16-17=-131/445, 17-18=-107/364,
18-19=-86/295
BOT CHORD 2-48=-81/281, 47-48=-81/281, 46-47=-81/281, 45-46=-81/281, 44-45=-81/281,
43-44=-81/281, 41-43=-81/281, 40-41=-81/281, 39-40=-81/281, 38-39=-81/281,
37-38=-81/281, 36-37=-81/281, 35-36=-81/281, 33-35=-81/281, 32-33=-81/281,
31-32=-81/281, 30-31=-81/281, 29-30=-81/281, 28-29=-81/281, 26-28=-81/281

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=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) 2, 38, 39, 41, 43, 44, 45, 46, 47, 35, 33, 32, 31, 30, 29, 26 except (jt=lb) 40=110, 48=124, 36=115, 28=133.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

February 27,2025

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

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

MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:27 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-bu56MXK_N8JNvJO5vnLS2jbheWZhlKcNH_?_85zh?IE

5-3-0 10-6-0 15-5-8 20-5-0 25-8-0 30-11-0

5-3-0 5-3-0 4-11-8 4-11-8 5-3-0 5-3-0

Scale = 1:66.4

11'-2 3/4"
2'-2 1/2"
6'-5 1/2"
8'-1 3/4"
2'-2 1/2"

5-3-0 10-6-0 15-5-8 20-5-0 25-8-0 30-11-0

5-3-0 5-3-0 4-11-8 4-11-8 5-3-0 5-3-0

Plate Offsets (X,Y)--		[2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-0,0-4-8], [12:0-4-0,0-4-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63
TCDL 7.0	Lumber DOL	1.25	BC 0.66
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.
WEBS 2x4 SP No.3 *Except*	
4-11: 2x4 SP No.2, 1-14,7-8: 2x6 SP No.2	

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=283(LC 9)
Max Uplift 14=-417(LC 12), 8=-417(LC 13)
Max Grav 14=1127(LC 1), 8=1127(LC 1)

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

TOP CHORD 1-2=-2588/1857, 2-3=-3774/2483, 3-4=-3845/2108, 4-5=-3845/2119, 5-6=-3774/2475, 6-7=-2588/1865, 1-14=-1093/807, 7-8=-1093/810

BOT CHORD 13-14=-335/405, 12-13=-1597/2467, 11-12=-2013/3645, 10-11=-1991/3645, 9-10=-1599/2467

WEBS 4-11=-1960/3554, 5-11=-247/633, 5-10=-387/148, 6-10=-446/1054, 6-9=-741/423, 3-11=-179/456, 3-12=-348/112, 2-12=-453/1054, 2-13=-741/421, 1-13=-1484/2131, 7-9=-1486/2131

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 0-2-12 to 3-3-14, Zone1 3-3-14 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 30-8-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=417, 8=417.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
February 27,2025

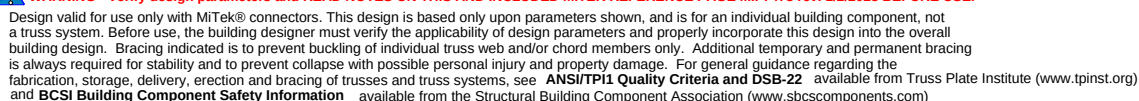
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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February 27, 2025



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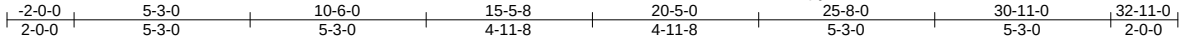
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527067
4434202	T02G	GABLE	1	1		
Job Reference (optional)						

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

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ID:7Wkr8toudn35dxwKwBAfQtytHta-34fUasLc8RSEXTzHTUthbx7w5wucUIGXWekXgXzh?ID



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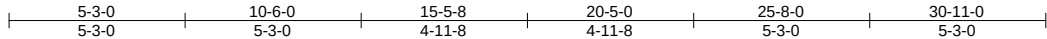
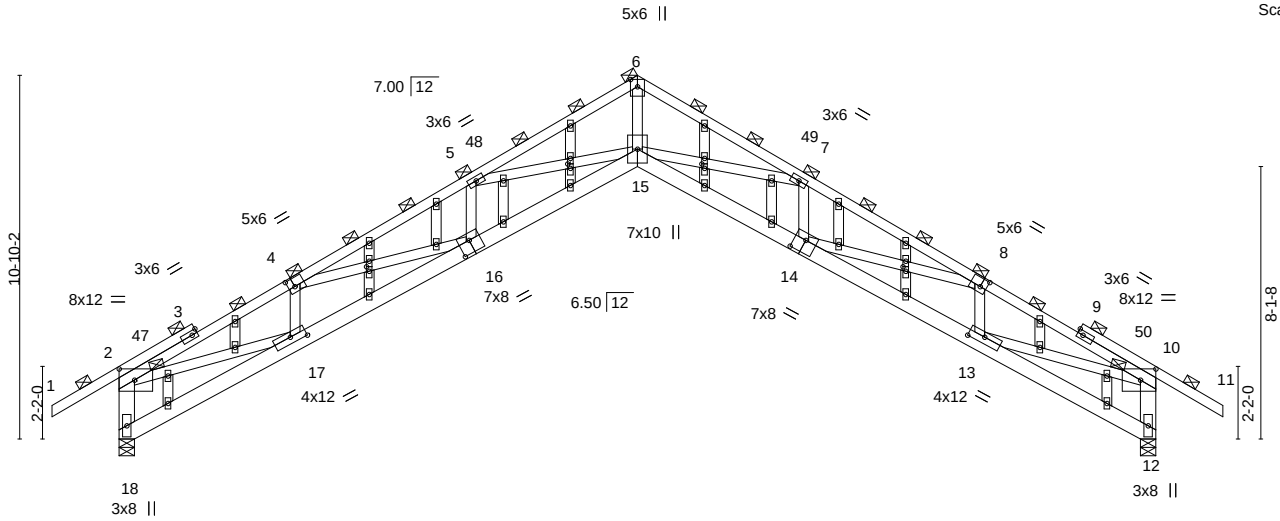


Plate Offsets (X,Y)-- [2:0-5-8,0-4-0], [4:0-2-4,0-3-0], [8:0-2-4,0-3-0], [10:0-5-8,0-4-0], [13:0-5-12,0-2-4], [14:0-4-0,0-4-8], [16:0-4-0,0-4-8], [17:0-5-12,0-2-4], [19:0-1-9,0-1-0], [26:0-1-10,0-1-0], [35:0-1-9,0-1-0], [42:0-1-10,0-1-0]

LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.32		Vert(LL)	0.44	15	>837	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74		Vert(CT)	-0.80	15	>460	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91		Horz(CT)	0.96	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD 2-0-0 oc purlins (3-6-14 max.), except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-9-4 oc bracing.
WEBS 2x4 SP No.3 *Except*	
6-15: 2x4 SP No.2, 2-18,10-12: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 18=0-5-8, 12=0-5-8
Max Horz 18=-399(LC 10)
Max Uplift 18=-498(LC 12), 12=-498(LC 13)
Max Grav 18=1247(LC 1), 12=1247(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2935/2162, 4-5=-4282/2825, 5-6=-4334/2334, 6-7=-4334/2346, 7-8=-4282/2769,
8-10=-2935/2086, 2-18=-1272/916, 10-12=-1272/974
BOT CHORD 17-18=-480/548, 16-17=-1911/2822, 15-16=-2349/4144, 14-15=-2269/4144,
13-14=-1808/2822
WEBS 6-15=-2185/4042, 7-15=-355/796, 7-14=-385/112, 8-14=-495/1191, 8-13=-744/415,
5-15=-218/607, 5-16=-349/88, 4-16=-475/1191, 4-17=-744/414, 2-17=-1601/2342,
10-13=-1606/2342

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-1-2, Zone1 1-1-2 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 32-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 18, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=498, 12=498.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

Date:
February 27,2025

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Chesterfield, MO 63017
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Builders FirstSource (Lake City, FL)

Lake City, FL - 32055,

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:29 2025 Page 1

ID:7Wkr8toudn35dxwKwBAfQtytHta-XHDsnCMEVla49dYT1BOW78g18KF9DE5gklU5Dzzh?IC

Scale = 1=66.4'

5-3-0
5-3-0
10-6-0
5-3-0
15-5-8
4-11-8
20-5-0
4-11-8
25-8-0
5-3-0
30-11-0
5-3-0

4x6 ||
7.00 |12
3x6 ||
16
3
5x6 ||
2
15
3x8 ||
1
14
3x6 ||
13
4x8 ||
12
7x8 ||
11
7x10 ||
6.50 |12
10
7x8 ||
9
4x8 ||
18
3x8 ||
7
8
3x6 ||
8-1-8
2-2-0

5-3-0
5-3-0
10-6-0
5-3-0
15-5-8
4-11-8
20-5-0
4-11-8
25-8-0
5-3-0
30-11-0
5-3-0

Plate Offsets (X,Y)-- [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-0,0-4-8], [12:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.40	11	>904	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.75	11	>490	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.89	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 204 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-11: 2x4 SP No.2, 1-14,7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=-283(LC 8)
Max Uplift 14=-417(LC 12), 8=-417(LC 13)
Max Grav 14=1127(LC 1), 8=1127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2633/1154, 2-3=-3791/1540, 3-4=-3845/1271, 4-5=-3845/1299, 5-6=-3774/1215, 6-7=-2588/910, 1-14=-1125/541, 7-8=-1093/441
BOT CHORD 13-14=-343/391, 12-13=-1257/2744, 11-12=-1475/3850, 10-11=-1041/3645, 9-10=-808/2467
WEBS 4-11=-1148/3554, 5-11=-383/547, 5-10=-333/148, 6-10=-285/1090, 6-9=-741/308, 3-11=-179/388, 3-12=-319/112, 2-12=-195/1054, 2-13=-754/391, 1-13=-889/2159, 7-9=-684/2131

February 27, 2025

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Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527069
4434202	T04	SCISSORS	5	1		

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:30 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-?TmF?YNsg3ixmn7favv9gMCBukbOygLpzyDelQzh?IB

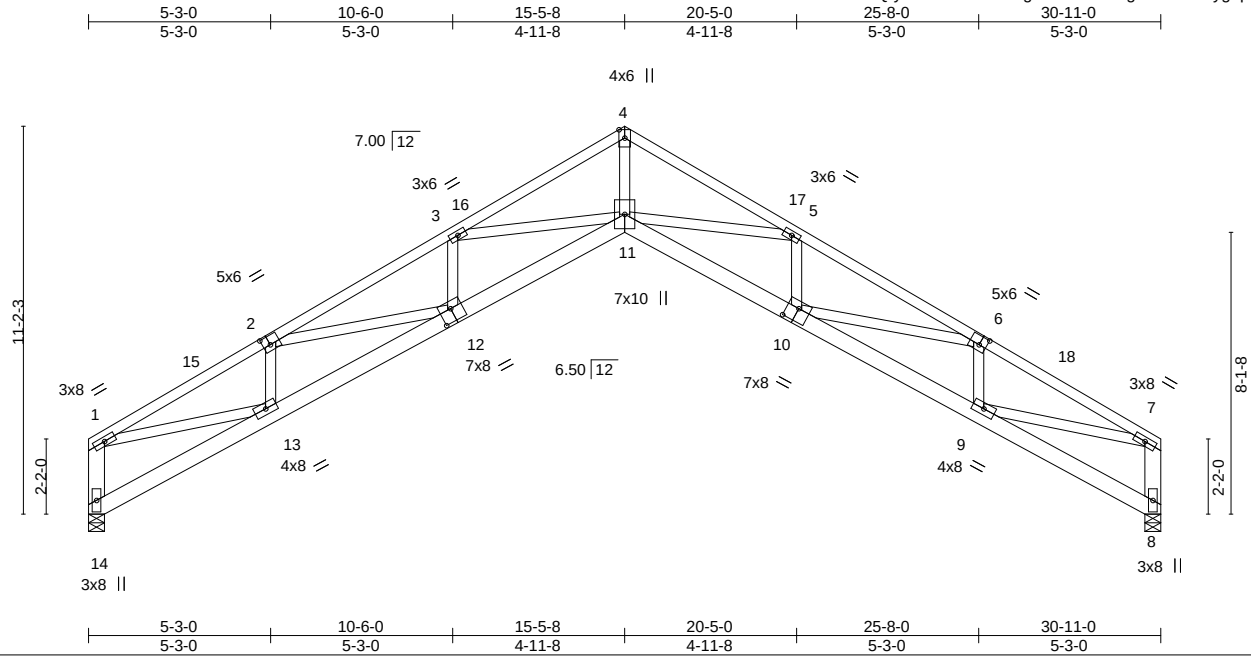


Plate Offsets (X,Y)-- [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-0,0-4-8], [12:0-4-0,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.41 11	>884	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.75 11	>490	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.89 8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 204 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-11: 2x4 SP No.2, 1-14,7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-1-15 oc bracing.

REACTIONS. (size) 14=0-5-8, 8=0-5-8
Max Horz 14=283(LC 9)
Max Uplift 14=-417(LC 12), 8=-417(LC 13)
Max Grav 14=1127(LC 1), 8=1127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2588/1857, 2-3=-3774/2483, 3-4=-3845/2108, 4-5=-3845/2119, 5-6=-3774/2475, 6-7=-2588/1865, 1-14=-1093/807, 7-8=-1093/810
BOT CHORD 13-14=-335/405, 12-13=-1597/2467, 11-12=-2013/3645, 10-11=-1991/3645, 9-10=-1599/2467
WEBS 4-11=-1960/3554, 5-11=-247/633, 5-10=-387/148, 6-10=-446/1054, 6-9=-741/423, 3-11=-179/456, 3-12=-348/112, 2-12=-453/1054, 2-13=-741/421, 1-13=-1484/2131, 7-9=-1486/2131

- 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 0-2-12 to 3-3-14, Zone1 3-3-14 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 30-8-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=417, 8=417.

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

February 27,2025

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Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527070
4434202	T05	SCISSORS	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:31 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQytHta-TfKdCuOURMqoOxis8cQOCZIMe8xdh7bzCczBHszh?IA

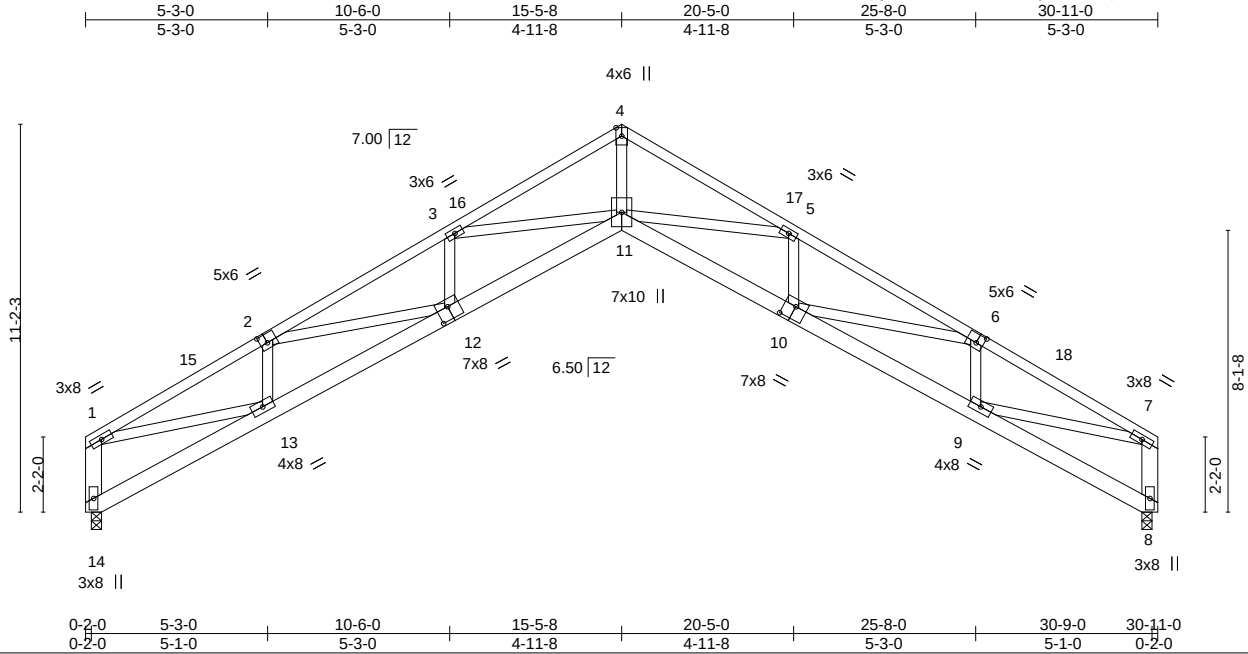


Plate Offsets (X,Y)-- [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [10:0-4-0,0-4-8], [12:0-4-0,0-4-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.44 11 >823	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.75 11 >490	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.89 8 n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 204 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
4-11: 2x4 SP No.2, 1-14,7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-10-2 oc bracing.

REACTIONS. (size) 14=0-3-8, 8=0-3-8
Max Horz 14=376(LC 9)
Max Uplift 14=-419(LC 12), 8=-419(LC 13)
Max Grav 14=1127(LC 1), 8=1127(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2588/1975, 2-3=-3774/2676, 3-4=-3845/2349, 4-5=-3845/2361, 5-6=-3774/2642, 6-7=-2588/1937, 1-14=-1093/840, 7-8=-1093/833
BOT CHORD 13-14=-411/471, 12-13=-1797/2467, 11-12=-2276/3645, 10-11=-2216/3645, 9-10=-1741/2467
WEBS 4-11=-2203/3554, 5-11=-312/683, 5-10=-397/124, 6-10=-506/1054, 6-9=-741/461, 3-11=-179/506, 3-12=-353/94, 2-12=-509/1054, 2-13=-741/445, 1-13=-1547/2131, 7-9=-1580/2131

- 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 0-2-12 to 3-3-14, Zone1 3-3-14 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 30-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=419, 8=419.

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

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

February 27,2025

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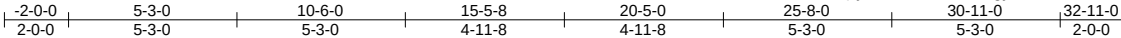
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527071
4434202	T06	SCISSORS	3	1		
Job Reference (optional)						

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:32 2025 Page 1

ID:7Wkr8toudn35dxwKwBAfQtytHta-xsu?PEO6Cgyf05H2iKxdlnIXwXH0Qa16QGilplzh?19



Scale = 1:71.8

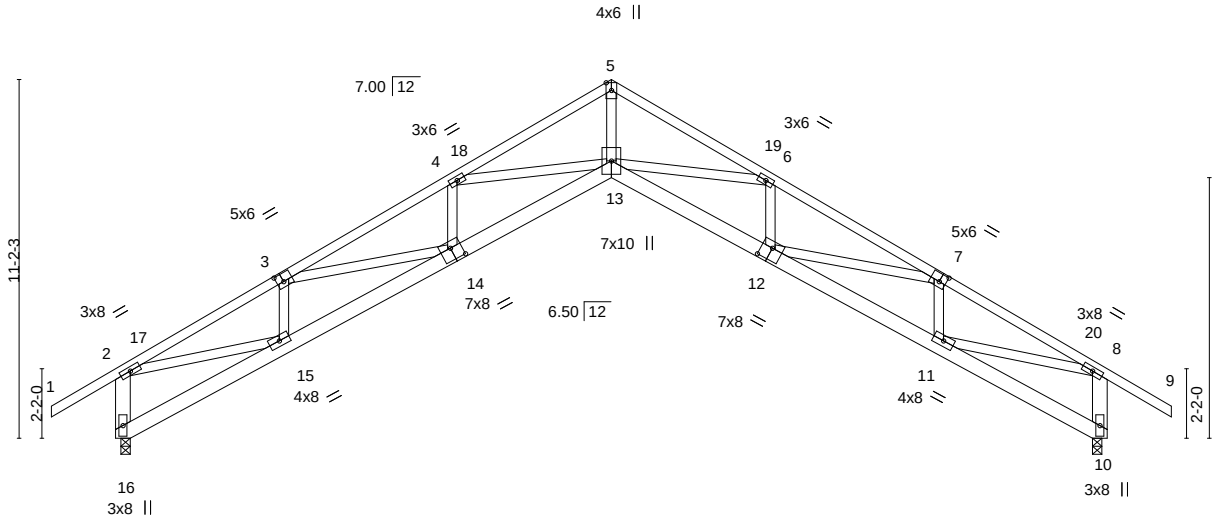


Plate Offsets (X,Y)--	[3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.40	13	>906	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.73	13	>498	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.88	10	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
Weight: 211 lb									FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
5-13: 2x4 SP No.2, 2-16,8-10: 2x6 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-2-10 oc bracing.

REACTIONS.

(size) 10=0-3-8, 16=0-3-8
Max Horz 16=-417(LC 10)
Max Uplift 10=-496(LC 13), 16=-496(LC 12)
Max Grav 10=1247(LC 1), 16=1247(LC 1)

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

TOP CHORD 2-3=-2518/1854, 3-4=-3710/2451, 4-5=-3786/2043, 5-6=-3786/2055, 6-7=-3710/2402, 7-8=-2518/1785, 2-16=-1196/861, 8-10=-1196/914
BOT CHORD 15-16=-435/500, 14-15=-1584/2391, 13-14=-1967/3585, 12-13=-1894/3585, 11-12=-1491/2391
WEBS 5-13=-1897/3497, 6-13=-322/707, 6-12=-409/113, 7-12=-441/1068, 7-11=-726/400, 4-13=-172/535, 4-14=-368/87, 3-14=-423/1068, 3-15=-726/391, 2-15=-1413/2098, 8-11=-1437/2098

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 -2-0-0 to 1-1-2, Zone1 1-1-2 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 32-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=496, 16=496.

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

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

February 27,2025

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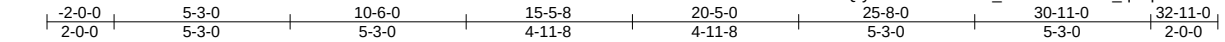
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527072
4434202	T06G	GABLE	1	1		
Job Reference (optional)						

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:33 2025 Page 1

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Scale = 1:68.7

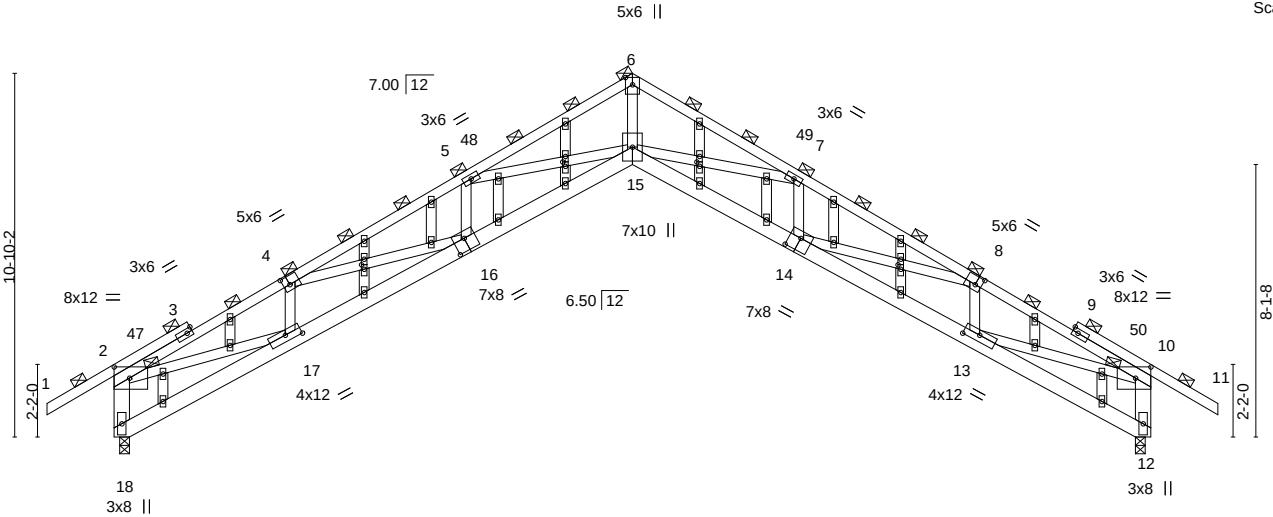


Plate Offsets (X,Y)--	[2:0-5-8,0-4-0], [4:0-2-4,0-3-0], [8:0-2-4,0-3-0], [10:0-5-8,0-4-0], [13:0-5-12,0-2-4], [14:0-4-0,0-4-8], [16:0-4-0,0-4-8], [17:0-5-12,0-2-4], [19:0-1-9,0-1-0], [26:0-1-10,0-1-0], [35:0-1-9,0-1-0], [42:0-1-10,0-1-0]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) 0.44	15	>837	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.80	15	>460	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.96	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 238 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD 2-0-0 oc purlins (3-6-14 max.), except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-9-4 oc bracing.
WEBS 2x4 SP No.3 *Except*	
6-15: 2x4 SP No.2, 2-18,10-12: 2x6 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS.	(size) 12=0-3-8, 18=0-3-8
	Max Horz 18=-399(LC 10)
	Max Uplift 12=-498(LC 13), 18=-498(LC 12)
	Max Grav 12=1247(LC 1), 18=1247(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-2935/2162, 4-5=-4282/2825, 5-6=-4334/2334, 6-7=-4334/2346, 7-8=-4282/2769, 8-10=-2935/2086, 2-18=-1272/916, 10-12=-1272/974
BOT CHORD	17-18=-480/548, 16-17=-1911/2822, 15-16=-2349/4144, 14-15=-2269/4144, 13-14=-1808/2822
WEBS	6-15=-2185/4042, 7-15=-355/796, 7-14=-385/112, 8-14=-495/1191, 8-13=-744/415, 5-15=-218/607, 5-16=-349/88, 4-16=-475/1191, 4-17=-744/414, 2-17=-1601/2342, 10-13=-1606/2342

- 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 -2-0-0 to 1-1-2, Zone1 1-1-2 to 15-5-8, Zone2 15-5-8 to 19-9-15, Zone1 19-9-15 to 32-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 12, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=498, 18=498.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

February 27,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527073
4434202	V01	Valley	1	1	Job Reference (optional)	

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:33 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-P2SNdaPlz_4WeFsEG1Ssl_qnLxj_9AZGfwSIMzh?l8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S					Weight: 162 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

REACTIONS.

All bearings 35-9-9.
(lb) - Max Horz 1=186(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-213(LC 12), 19=-163(LC 12), 20=-266(LC 12), 15=-213(LC 13), 13=-164(LC 13), 12=-266(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=389(LC 22), 17=406(LC 27), 19=302(LC 2), 20=435(LC 27), 15=406(LC 28), 13=302(LC 2), 12=435(LC 28)

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

TOP CHORD 5-6=-128/272, 6-7=-128/257
WEBS 2-20=-291/285, 10-12=-291/284

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 4-2-7, Zone1 4-2-7 to 17-10-12, Zone2 17-10-12 to 22-11-6, Zone1 22-11-6 to 35-2-0 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, 11 except (jt=lb) 17=213, 19=163, 20=266, 15=213, 13=164, 12=266.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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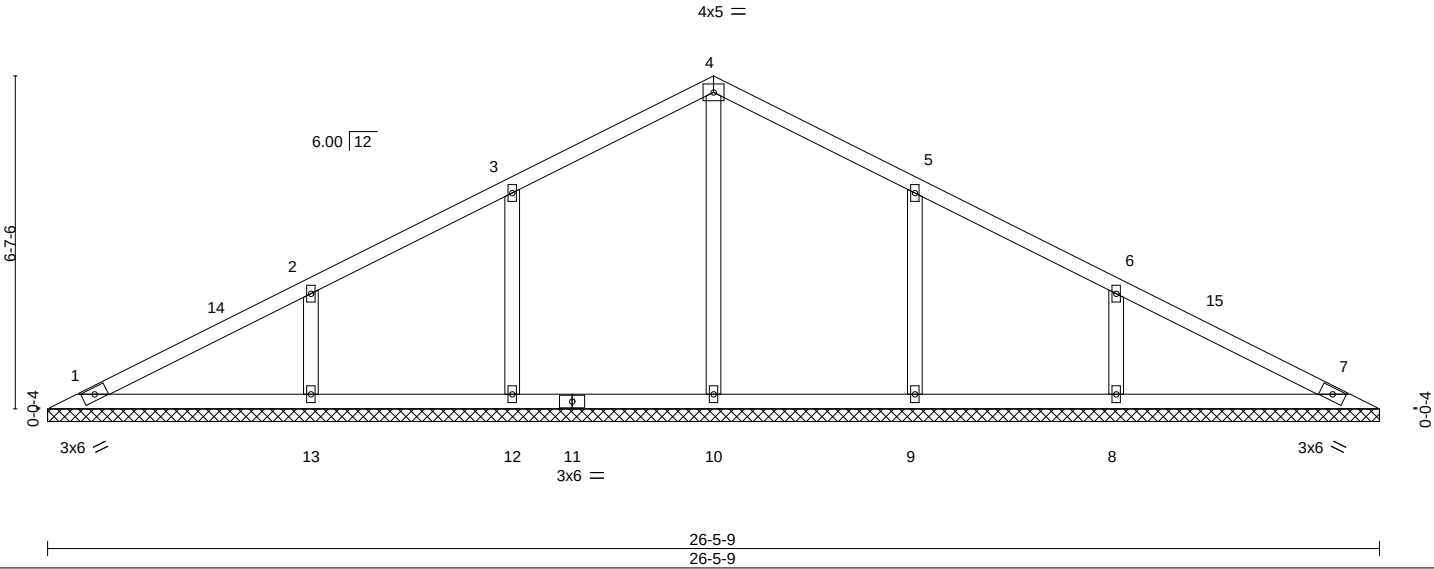
Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527075
4434202	V03	Valley	1	1		

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:34 2025 Page 1
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26-5-9
13-2-12

Scale = 1:45.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.18	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	7	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 108 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 26-5-9.
(lb) - Max Horz 1=-136(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-193(LC 12), 13=-235(LC 12), 9=-193(LC 13), 8=-235(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=376(LC 22), 12=336(LC 27), 13=389(LC 2), 9=336(LC 28), 8=389(LC 2)

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

WEBS 2-13=-259/253, 6-8=-259/253

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 13-2-12, Zone2 13-2-12 to 17-2-12, Zone1 17-2-12 to 25-10-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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=193, 13=235, 9=193, 8=235.

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

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Date:

February 27,2025

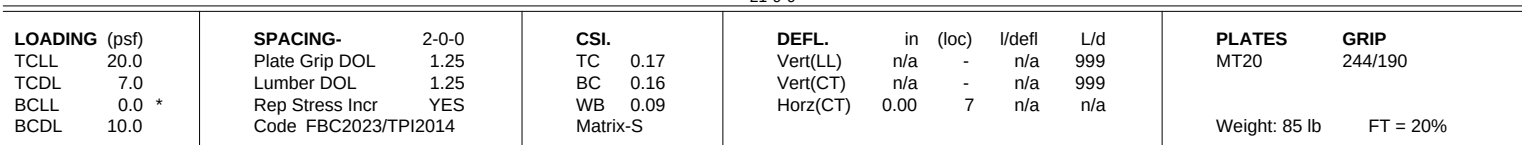
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Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:35 2025 Page 1
		ID:7WKr8toudn35dxwKwBafQtytHta-MQa82GR?UbKEtY0dNSVKNPw9mQLd6sZ7ExpQdzh?i6
	<u>10-10-12</u>	<u>21-9-9</u>
	<u>10-10-12</u>	<u>10-10-12</u>



REACTIONS. All bearings 21-9-9.
(lb) - Max Horz 1=111(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-213(LC 12), 13=-164(LC 12), 9=-213(LC 13),
8=-164(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=346(LC 19), 12=351(LC 27), 13=272(LC 2),
9=351(LC 28), 8=272(LC 2)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 10-10-12, Zone2 10-10-12 to 14-10-12, Zone1 14-10-12 to 21-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 12-213, 13-164, 9-213, 8-164.

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

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

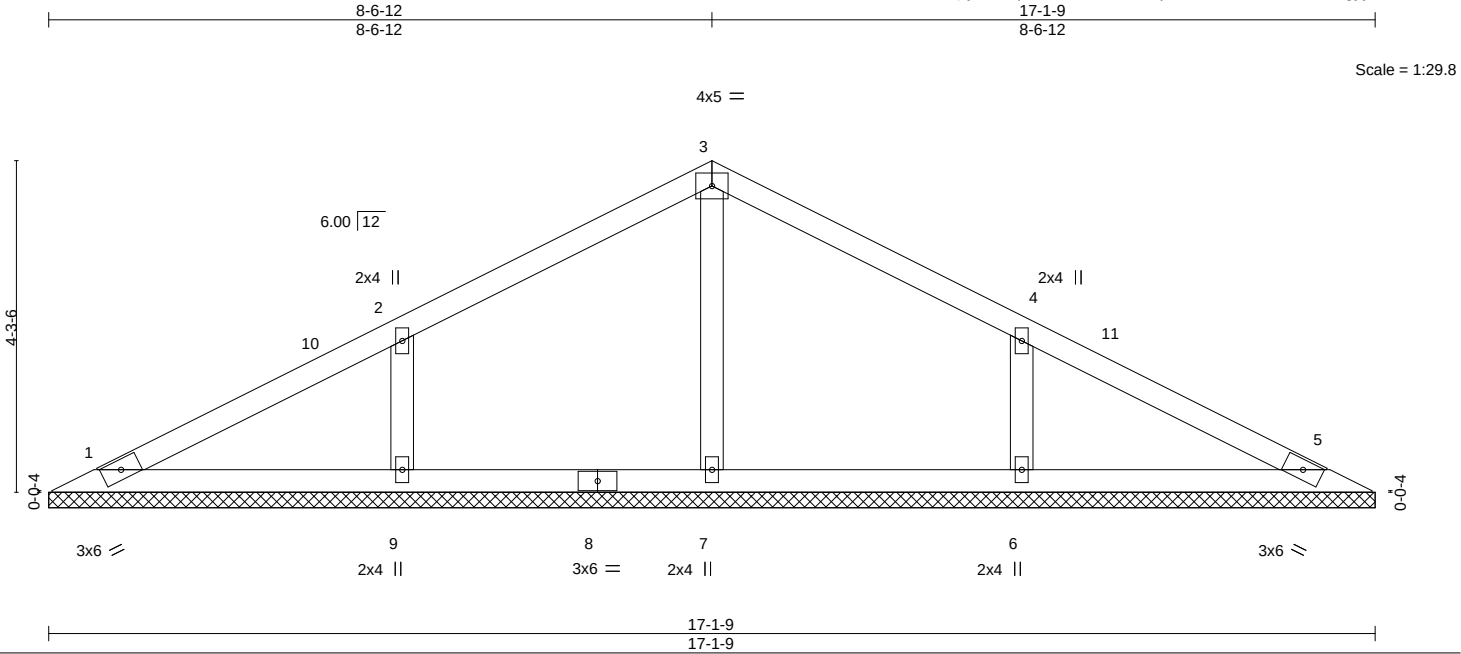
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-LLS.com

Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527077
4434202	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. Thu Feb 27 07:31:36 2025 Page 1

ID:7WKr8toudn35dxwKwBAfQtytHta-qd8WFbRdFvS5ViapxA0ZvdSJ69m2MZKiLugyy3zh?l5



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 0.19	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 62 lb	FT = 20%

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

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

REACTIONS. All bearings 17-1-9.
(lb) - Max Horz 1=85(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 9=230(LC 12), 6=230(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=350(LC 25), 6=350(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-255/253, 4-6=-255/253

- 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 0-7-9 to 3-7-9, Zone1 3-7-9 to 8-6-12, Zone2 8-6-12 to 12-6-12, Zone1 12-6-12 to 16-6-0 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.
 - 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) 9=230, 6=230.

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

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

February 27,2025

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

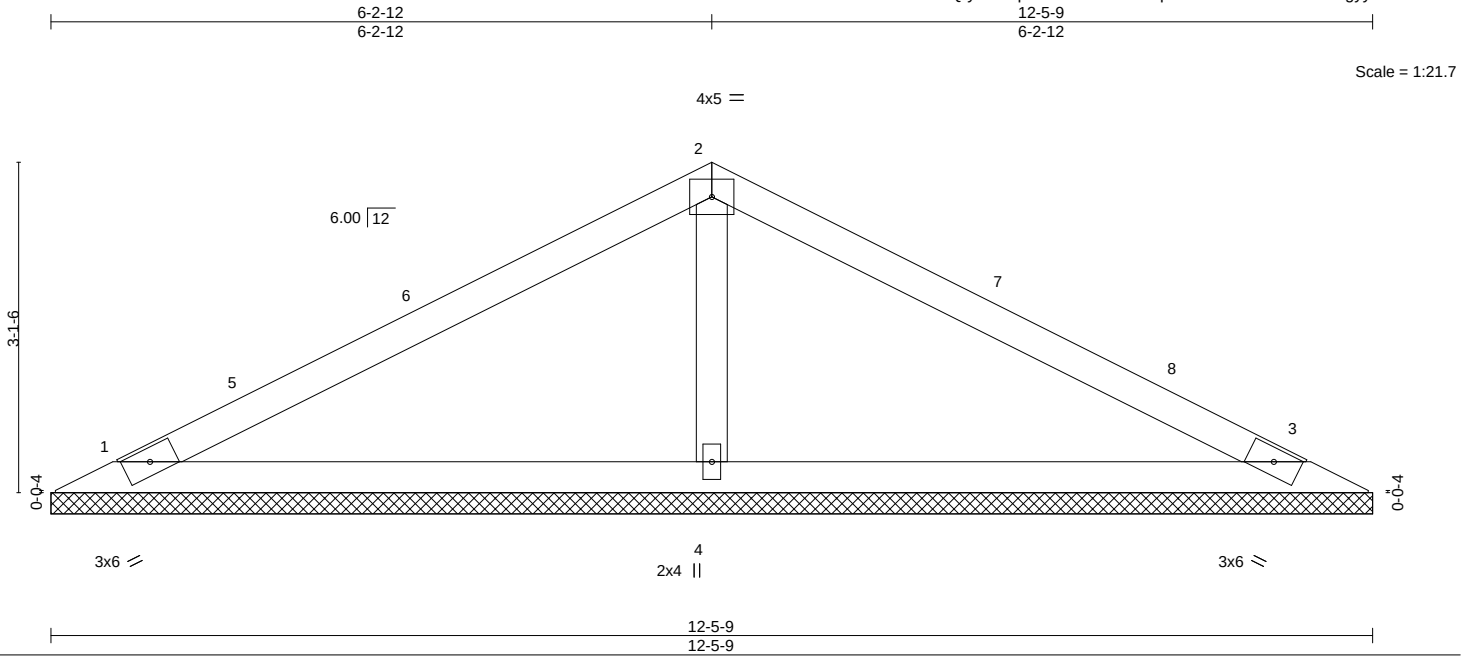
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	YUNCK RES.	T36527078
4434202	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. Thu Feb 27 07:31:36 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-qd8WFbRdFvS5ViapxA0ZvdSG?9kJMZGiLugyy3zh?l5



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 0.39	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
									Weight: 41 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=12-5-9, 3=12-5-9, 4=12-5-9
Max Horz 1=-60(LC 13)
Max Uplift 1=-93(LC 12), 3=-104(LC 13), 4=-136(LC 12)
Max Grav 1=190(LC 25), 3=190(LC 26), 4=453(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-292/268

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 0-7-9 to 3-7-9, Zone1 3-7-9 to 6-2-12, Zone2 6-2-12 to 10-5-11, Zone1 10-5-11 to 11-10-0 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.
- 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 except (jt=lb) 3=104, 4=136.

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

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

February 27,2025

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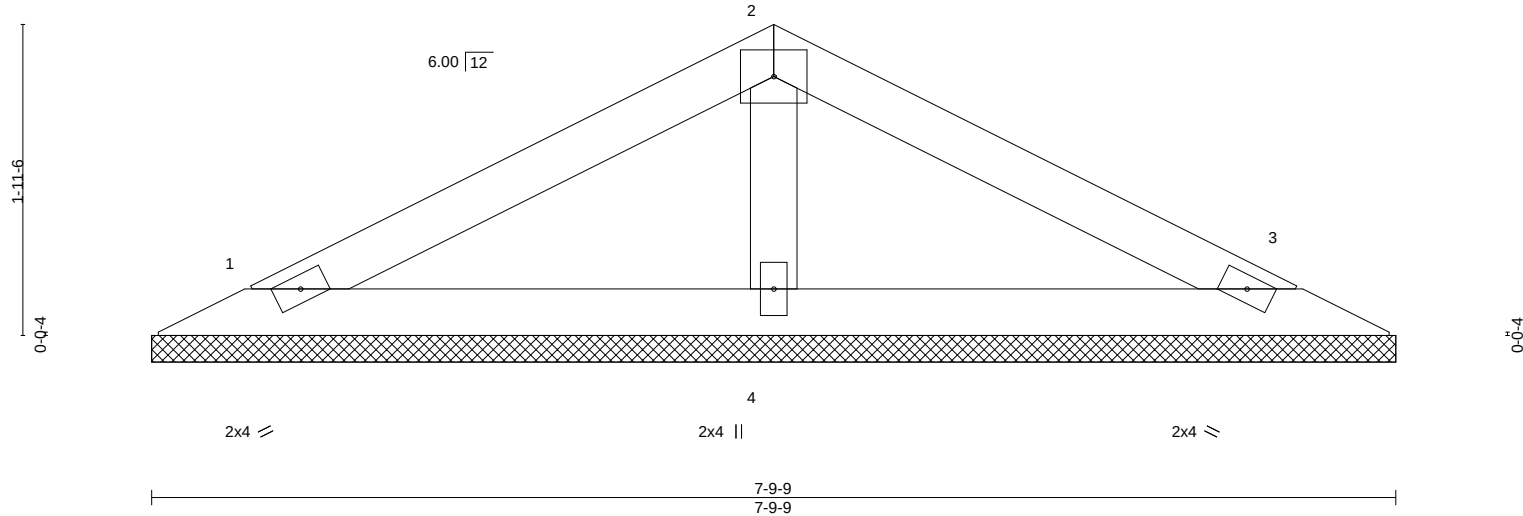
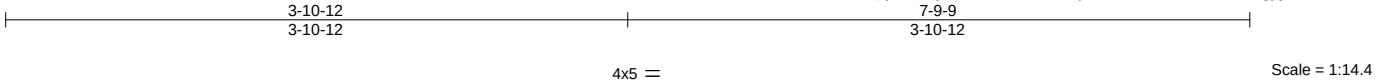
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Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527079
4434202	V07	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:36 2025 Page 1
ID:7WKr8toudn35dxwKwBafQtytHta-qd8WFbRdFvS5ViapxA0ZvdSJz9nRMZDiLugyy3zh?l5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 1=7-9-9, 3=7-9-9, 4=7-9-9
Max Horz 1=35(LC 12)
Max Uplift 1=-54(LC 12), 3=-61(LC 13), 4=-79(LC 12)
Max Grav 1=111(LC 25), 3=111(LC 26), 4=264(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-170/278

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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.

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

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

February 27,2025

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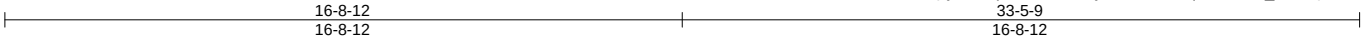
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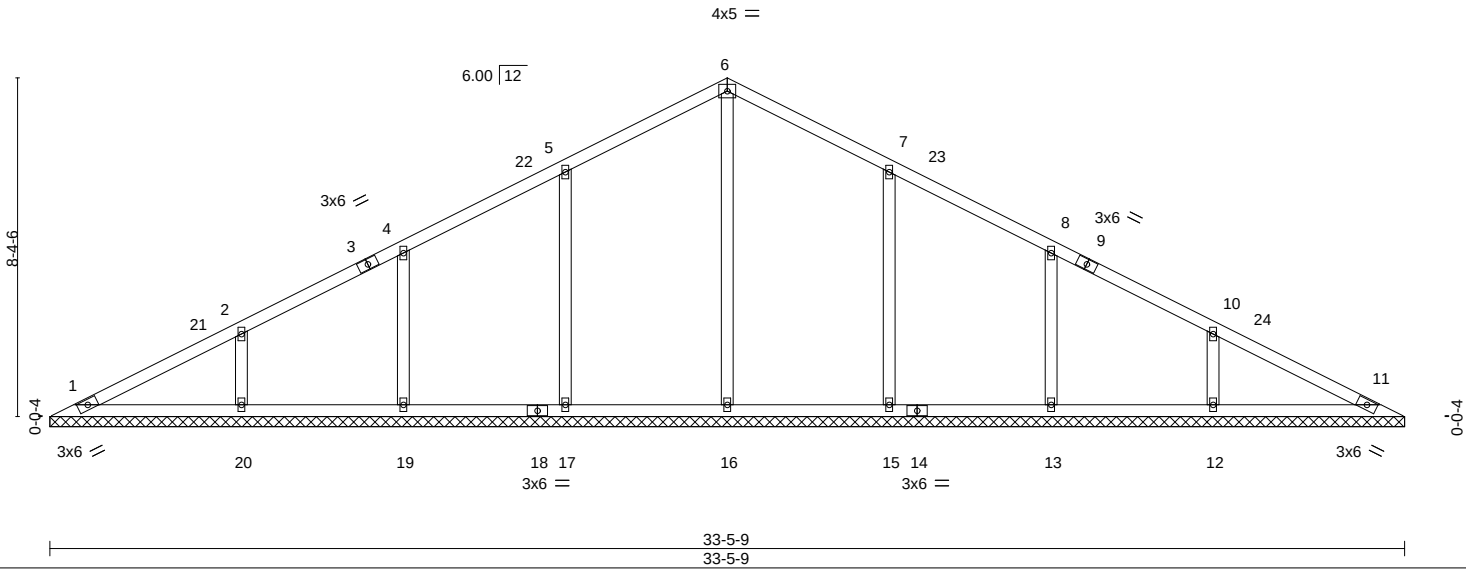
Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527080
4434202	V08	Valley	1	1		

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:37 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-lphuTxSF0Cay6s90VtXoSq?V2Y6d5_9raYQWVWzh?l4



Scale = 1:56.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S					Weight: 149 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 33-5-9.
(lb) - Max Horz 1=173(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 17=-209(LC 12), 19=-180(LC 12), 20=-222(LC 12), 15=-209(LC 13), 13=-180(LC 13), 12=-222(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=383(LC 22), 17=399(LC 27), 19=330(LC 2), 20=361(LC 27), 15=399(LC 28), 13=330(LC 2), 12=361(LC 28)

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

TOP CHORD 5-6=-120/254

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 0-7-9 to 3-11-10, Zone1 3-11-10 to 16-8-12, Zone2 16-8-12 to 21-5-7, Zone1 21-5-7 to 32-10-0 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.
- 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, 11 except (jt=lb) 17=209, 19=180, 20=222, 15=209, 13=180, 12=222.

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

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

February 27,2025

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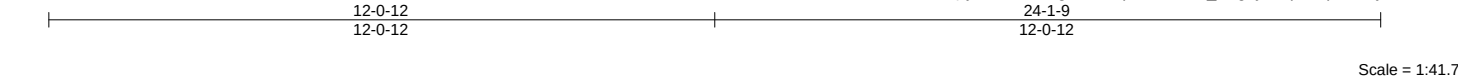
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527082
4434202	V10	Valley	1	1	Job Reference (optional)	

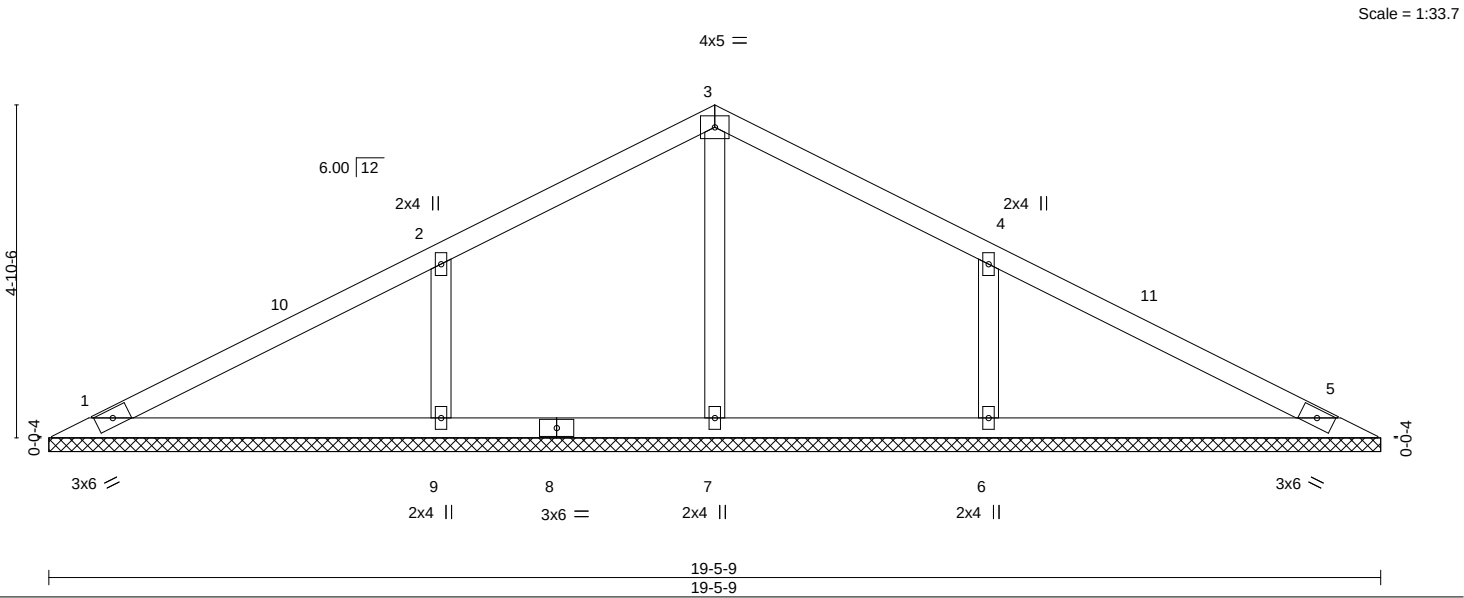
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:38 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-m?FGgHTtnWipk0kC2a21_2Yg9ySnqTG?pC931yzh?l3



Job	Truss	Truss Type	Qty	Ply	YUNCK RES.
4434202	V11	Valley	1	1	T36527083
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:39 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-ECpetdUVYqqgMAJOclZGXF4p1MmaZwv81svcZOzh?l2



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 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.20	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: 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 19-5-9.
(lb) - Max Horz 1=98(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=272(LC 12), 6=271(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=416(LC 25), 6=416(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-298/291, 4-6=-298/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 9-8-12, Zone2 9-8-12 to 13-8-12, Zone1 13-8-12 to 18-10-0 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.
 - 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) 9=272, 6=271.

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

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	YUNCK RES.	T36527084
4434202	V12	Valley	1	1		

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

8.830 s Feb 18 2025 MiTek Industries, Inc. Thu Feb 27 07:31:39 2025 Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-ECpetdUVYqqgMAJOclZGXF4r0MoyZw481svcZOzh?l2



Scale = 1:25.5

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 0.15	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 7.0	Lumber DOL	1.25	BC 0.12	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 52 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 14-9-9.
(lb) - Max Horz 1=-73(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-198(LC 12), 6=-198(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=261(LC 1), 8=298(LC 25), 6=298(LC 26)

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

WEBS 2-8=-222/252, 4-6=-222/252

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-4-12, Zone1 3-4-12 to 7-4-12, Zone2 7-4-12 to 11-4-12, Zone1 11-4-12 to 14-2-0 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.
- 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=198, 6=198.

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

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

February 27,2025

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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	YUNCK RES.	T36527085
4434202	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.
Thu Feb 27 07:31:40 2025
Page 1
ID:7Wkr8toudn35dxwKwBAfQtytHta-iON05zV8J7yXzJuaA?4V4TdZ_m7?iNEIGVeA5rzH?i1

5-0-12

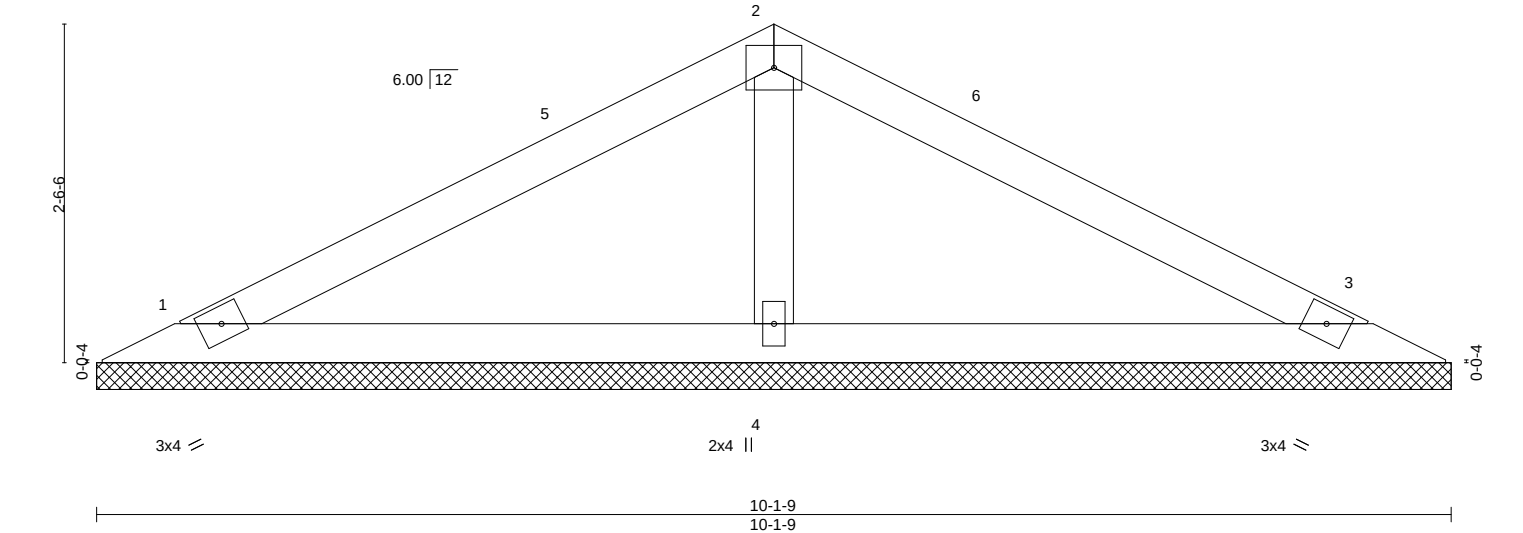
5-0-12

10-1-9

5-0-12

4x5 =

Scale = 1:17.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 33 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=10-1-9, 3=10-1-9, 4=10-1-9
	Max Horz	1=48(LC 12)
	Max Uplift	1=-73(LC 12), 3=-82(LC 13), 4=-107(LC 12)
	Max Grav	1=151(LC 25), 3=151(LC 26), 4=358(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS	2-4=-231/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-0-12, Zone3 5-0-12 to 9-6-0 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.
 - 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 except (jt=lb) 4=107.

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

February 27,2025

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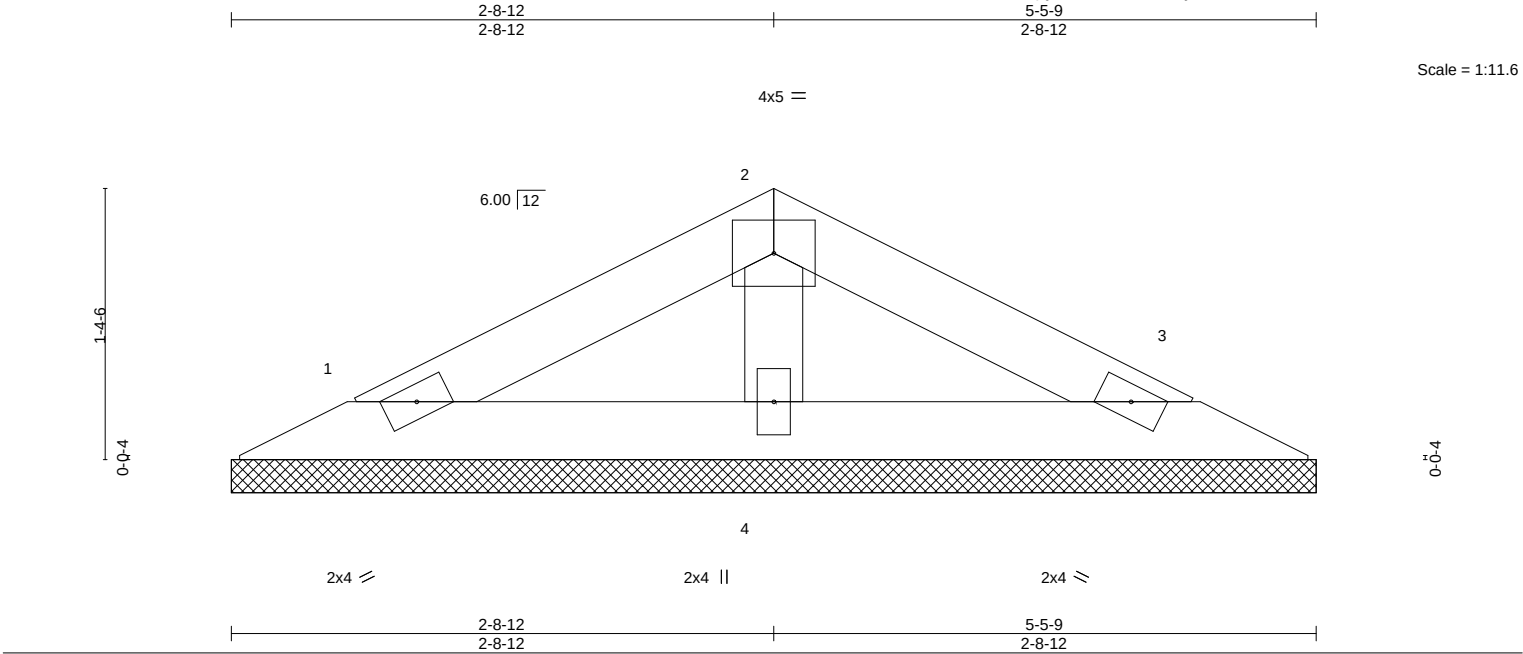
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	YUNCK RES.	T36527086
4434202	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. Thu Feb 27 07:31:40 2025 Page 1
ID:7WKr8toudn35dxwKwBAfQytHta-iON05zVBj7yXzJuaA?4V4Td0vm9lI0ciGveA5rzh?1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						
								Weight: 16 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-5-9, 3=5-5-9, 4=5-5-9
Max Horz 1=-23(LC 17)
Max Uplift 1=-41(LC 12), 3=-45(LC 13), 4=-39(LC 12)
Max Grav 1=78(LC 1), 3=78(LC 1), 4=154(LC 1)

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

NOTES-

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

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Chesterfield, MO 63017
Date:

February 27,2025

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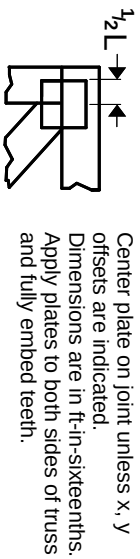
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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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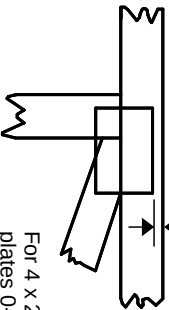
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Symbols

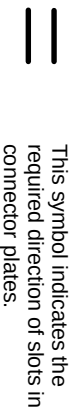
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

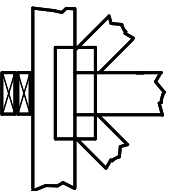
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

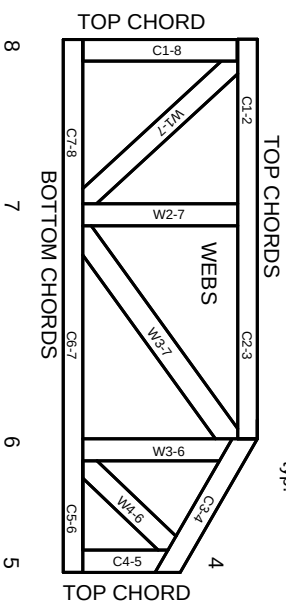
Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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