

RE: 5481028

MiTek, Inc.

16023 Swingley Ridge
Chesterfield, MO 63114
314.434.1200



Site Information:

Customer: AMIRA BLDRS Project Name: 5481028
Lot/Block: N/A Model: Custom
Address: TBD Subdivision: N/A
City: Columbia City State: FL

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

Design Code: FBC2023/TPI2014
Wind Code: ASCE 7-22
Roof Load: 40.0 psf

Design Program: MiTek 20/20 25.4
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 48 individual, dated 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	T41410365	EJ01	6/4/2026	21	T41410385	T15	6/4/2026
2	T41410366	EJ01G	6/4/2026	22	T41410386	T15G	6/4/2026
3	T41410367	T01	6/4/2026	23	T41410387	T16	6/4/2026
4	T41410368	T01G	6/4/2026	24	T41410388	T17	6/4/2026
5	T41410369	T02	6/4/2026	25	T41410389	T18	6/4/2026
6	T41410370	T03	6/4/2026	26	T41410390	T18G	6/4/2026
7	T41410371	T04	6/4/2026	27	T41410391	T19	6/4/2026
8	T41410372	T04G	6/4/2026	28	T41410392	T19G	6/4/2026
9	T41410373	T05	6/4/2026	29	T41410393	T20	6/4/2026
10	T41410374	T05G	6/4/2026	30	T41410394	T20G	6/4/2026
11	T41410375	T06	6/4/2026	31	T41410395	T21	6/4/2026
12	T41410376	T07	6/4/2026	32	T41410396	T22	6/4/2026
13	T41410377	T08G	6/4/2026	33	T41410397	T23	6/4/2026
14	T41410378	T09	6/4/2026	34	T41410398	T24	6/4/2026
15	T41410379	T09G	6/4/2026	35	T41410399	T25	6/4/2026
16	T41410380	T10	6/4/2026	36	T41410400	T25G	6/4/2026
17	T41410381	T11	6/4/2026	37	T41410401	T26	6/4/2026
18	T41410382	T12	6/4/2026	38	T41410402	T27	6/4/2026
19	T41410383	T13	6/4/2026	39	T41410403	T28	6/4/2026
20	T41410384	T14	6/4/2026	40	T41410404	T28G	6/4/2026

This item has been digitally signed and sealed by O'Regan, Philip on the date adjacent to the seal.

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The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc. under my direct supervision

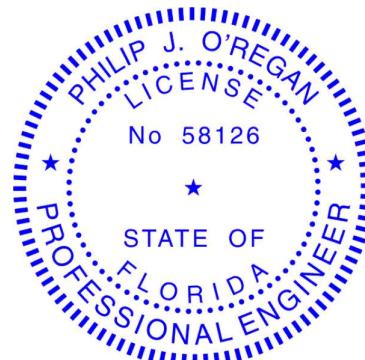
based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

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

Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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:

June 04, 2026



RE: 5481028 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Project Customer: AMIRA BLDRS Project Name: 5481028
Lot/Block: N/A Subdivision: N/A
Address: TBD
City, County: Columbia Cty State: FL

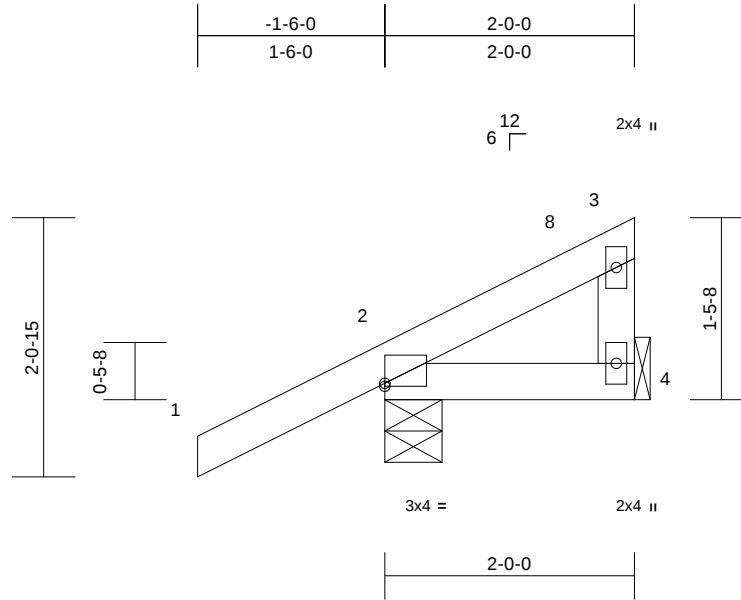
No.	Seal#	Truss Name	Date
41	T41410405	TG01	6/4/2026
42	T41410406	V01	6/4/2026
43	T41410407	V02	6/4/2026
44	T41410408	V03	6/4/2026
45	T41410409	V04	6/4/2026
46	T41410410	V05	6/4/2026
47	T41410411	V06	6/4/2026
48	T41410412	V07	6/4/2026

Job	Truss	Truss Type	Qty	Ply	
5481028	EJ01	Jack-Closed	4	1	T41410365
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:31
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Page: 1



Scale = 1:18.5

Plate Offsets (X, Y): [2:Edge,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 10 lb	FT = 20%

LUMBER

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

- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 91 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 2=0-5-8, 4= Mechanical
Max Horiz 2=76 (LC 12)
Max Uplift 2=-91 (LC 12), 4=-23 (LC 12)
Max Grav 2=201 (LC 1), 4=43 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-236/97, 3-4=-50/52
BOT CHORD 2-4=-73/134

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 1-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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:

June 4,2026

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

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

MiTek®

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314.434.1200 / MiTek-US.com

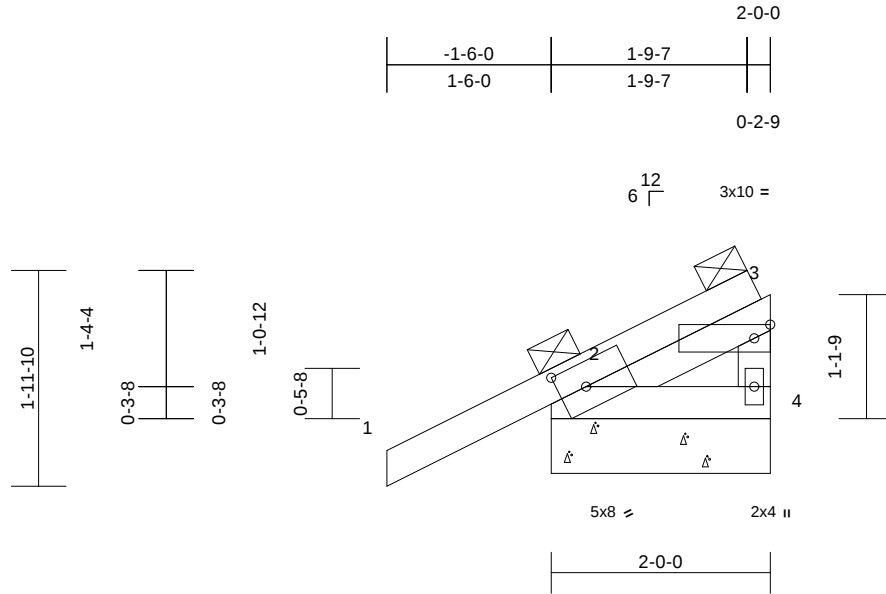
Job	Truss	Truss Type	Qty	Ply	
5481028	EJ01G	Monopitch Supported Gable	1	1	T41410366
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:32

Page: 1

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Scale = 1:21

Plate Offsets (X, Y): [2:0-3-0,0-2-9]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 12 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=2-0-0, 4=2-0-0
Max Horiz 2=68 (LC 12)
Max Uplift 2=-129 (LC 12), 4=-15 (LC 1)
Max Grav 2=246 (LC 1), 4=33 (LC 16)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/43, 2-3=-53/47, 3-4=-107/30
BOT CHORD 2-4=-3/3

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 1-4-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 15 lb uplift at joint 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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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:

June 4,2026

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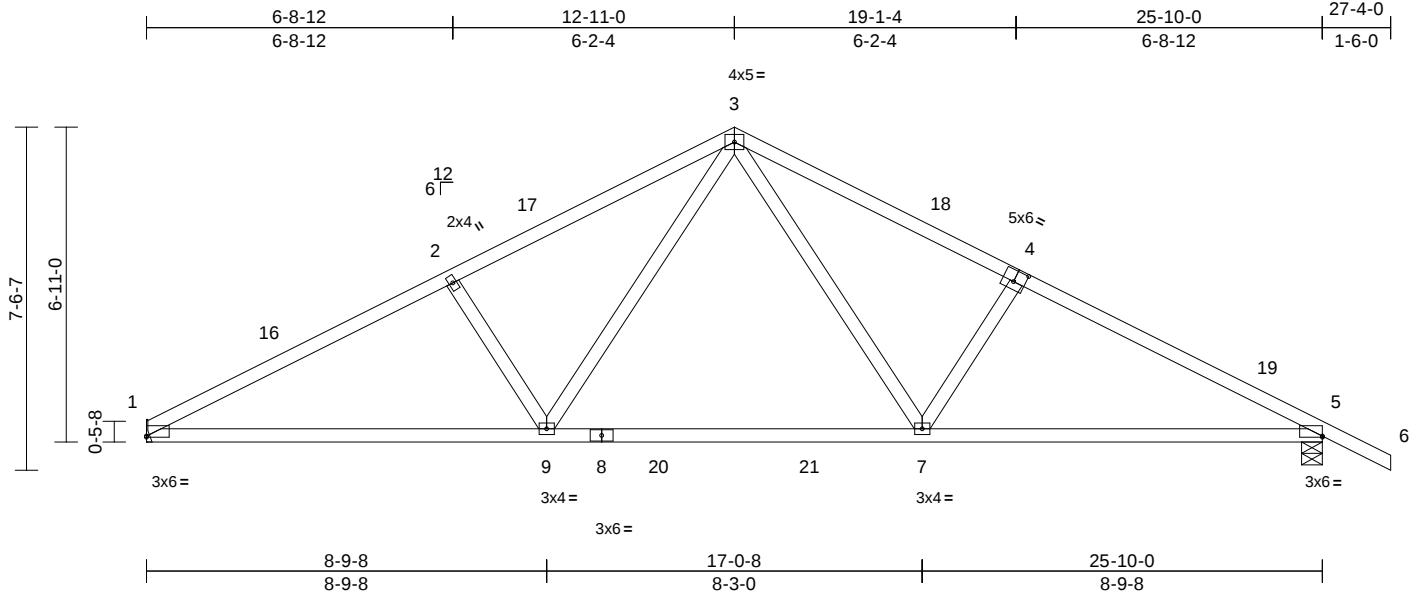
Job	Truss	Truss Type	Qty	Ply	
5481028	T01	Common	6	1	T41410367
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:32

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Scale = 1:50.6

Plate Offsets (X, Y): [1:Edge,0-0-5], [4:0-3-0,0-3-0], [5:Edge,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.18	7-9	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.28	7-9	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 118 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.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.

REACTIONS (size) 1= Mechanical, 5=0-5-8
Max Horiz 1=-167 (LC 17)
Max Uplift 1=-357 (LC 12), 5=-409 (LC 13)
Max Grav 1=1121 (LC 2), 5=1200 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1909/654, 2-3=-1739/655, 3-5=-1897/632, 5-6=0/40
BOT CHORD 1-9=-569/1654, 7-9=-244/1106, 5-7=-464/1640
WEBS 3-7=-279/720, 4-7=-382/327, 3-9=-284/729, 2-9=-390/333

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-11-0, Zone2 12-11-0 to 17-1-15, Zone1 17-1-15 to 27-4-0 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 3-06-00 tall by 2-00-00 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 357 lb uplift at joint 1 and 409 lb uplift at joint 5.

LOAD CASE(S) Standard

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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:

June 4,2026

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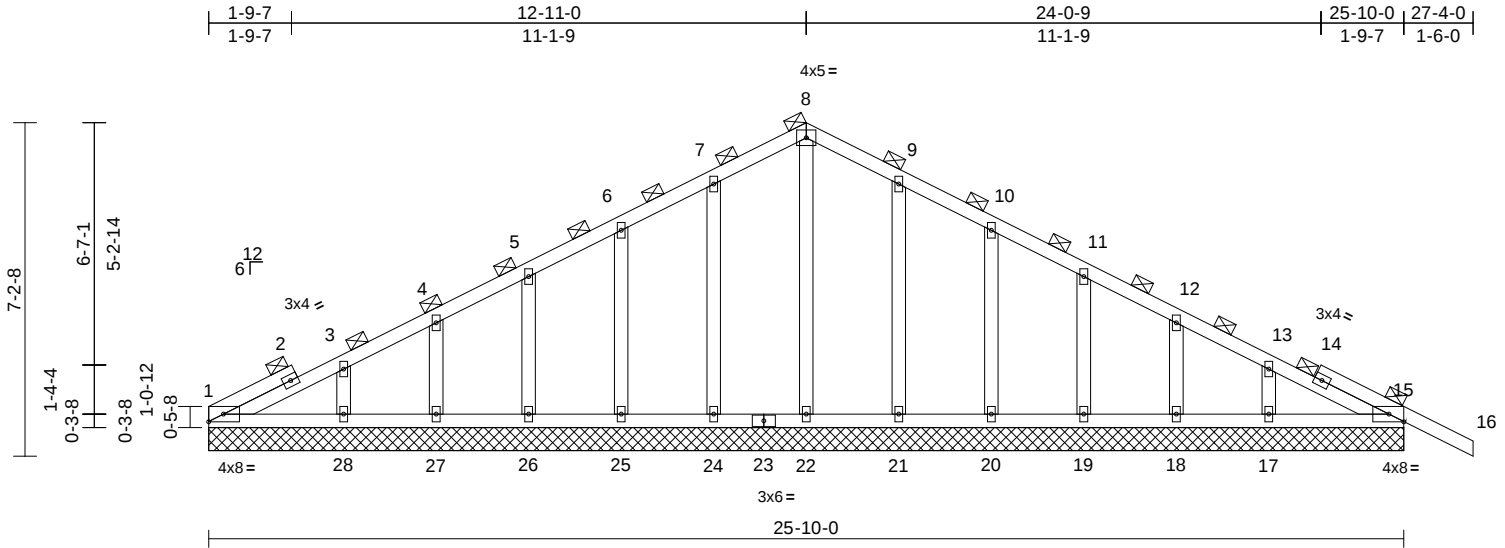
Job	Truss	Truss Type	Qty	Ply	
5481028	T01G	Common Supported Gable	1	1	T41410368
Job Reference (optional)					

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

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Scale = 1:49.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	32	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 143 lb	FT = 20%

LUMBER		BOT CHORD		11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1, 73 lb uplift at joint 15, 95 lb uplift at joint 24, 93 lb uplift at joint 25, 95 lb uplift at joint 26, 83 lb uplift at joint 27, 121 lb uplift at joint 28, 93 lb uplift at joint 21, 95 lb uplift at joint 20, 93 lb uplift at joint 19, 91 lb uplift at joint 18, 99 lb uplift at joint 17, 31 lb uplift at joint 1 and 73 lb uplift at joint 15.
TOP CHORD	2x4 SP No.2		1-28=-39/165, 27-28=-39/165, 26-27=-39/165, 25-26=-39/165, 24-25=-39/165, 22-24=-39/165, 21-22=-39/165, 20-21=-39/165, 19-20=-39/165, 18-19=-39/165, 17-18=-39/165, 15-17=-47/182	
BOT CHORD	2x4 SP No.2		8-22=-138/18, 7-24=-129/135, 6-25=-118/140, 5-26=-122/138, 4-27=-111/132, 3-28=-158/158, 9-21=-129/135, 10-20=-119/140, 11-19=-121/137, 12-18=-116/140, 13-17=-140/141	
OTHERS	2x4 SP No.3			
BRACING		WEBS		12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
TOP CHORD	2-0-0 oc purlins.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
REACTIONS (size)		NOTES		LOAD CASE(S) Standard
	1=25-10-0, 15=25-10-0, 17=25-10-0, 18=25-10-0, 19=25-10-0, 20=25-10-0, 21=25-10-0, 22=25-10-0, 24=25-10-0, 25=25-10-0, 26=25-10-0, 27=25-10-0, 28=25-10-0		1) Unbalanced roof live loads have been considered for this design.	
Max Horiz	1=-160 (LC 17)		2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.	
Max Uplift	1=-31 (LC 13), 15=-73 (LC 13), 17=-99 (LC 13), 18=-91 (LC 13), 19=-93 (LC 13), 20=-95 (LC 13), 21=-93 (LC 13), 24=-95 (LC 12), 25=-93 (LC 12), 26=-95 (LC 12), 27=-83 (LC 12), 28=-121 (LC 12)		3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
Max Grav	1=103 (LC 1), 15=222 (LC 1), 17=193 (LC 1), 18=152 (LC 26), 19=162 (LC 26), 20=158 (LC 1), 21=169 (LC 26), 22=178 (LC 22), 24=169 (LC 25), 25=157 (LC 1), 26=166 (LC 25), 27=139 (LC 25), 28=232 (LC 1)		4) 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.	
FORCES (lb) - Maximum Compression/Maximum Tension				
TOP CHORD	1-3=-148/75, 3-4=-98/87, 4-5=-66/111, 5-6=-51/141, 6-7=-72/210, 7-8=-94/278, 8-9=-94/278, 9-10=-72/210, 10-11=-51/140, 11-12=-39/71, 12-13=-51/27, 13-15=-142/49, 15-16=0/40		5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
			6) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.	

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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

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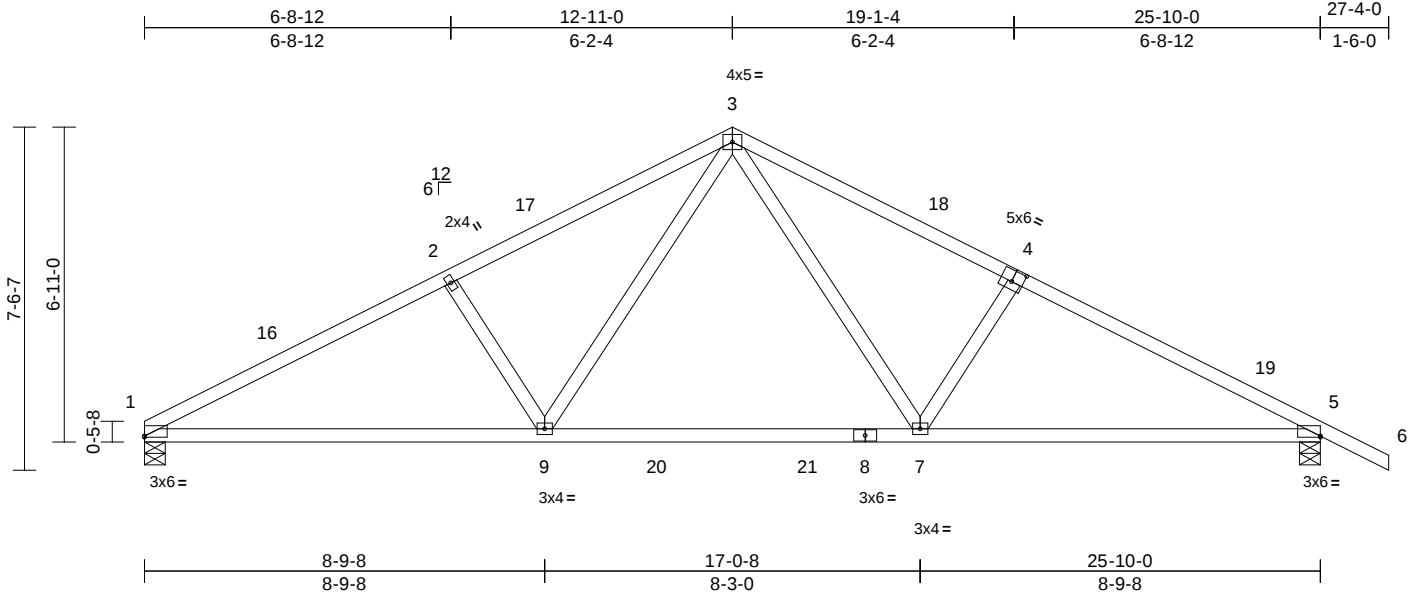
Job	Truss	Truss Type	Qty	Ply	
5481028	T02	Common	3	1	T41410369
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:33

Page: 1

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Scale = 1:50.6

Plate Offsets (X, Y): [1:Edge,0-0-5], [4:0-3-0,0-3-0], [5:Edge,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.18	7-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.28	7-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 118 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.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.

REACTIONS

(size) 1=0-5-8, 5=0-5-8
Max Horiz 1=-167 (LC 17)
Max Uplift 1=-357 (LC 12), 5=-409 (LC 13)
Max Grav 1=1121 (LC 2), 5=1200 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1909/654, 2-3=-1739/655,
3-5=-1897/632, 5-6=0/40

BOT CHORD 1-9=-569/1654, 7-9=-244/1106,
5-7=-464/1640

WEBS 3-7=-279/720, 4-7=-382/327, 3-9=-284/729,
2-9=-390/333

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-11-0, Zone2 12-11-0 to 17-1-15, Zone1 17-1-15 to 27-4-0 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 3-06-00 tall by 2-00-00 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 357 lb uplift at joint 1 and 409 lb uplift at joint 5.

LOAD CASE(S) Standard

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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:

June 4,2026

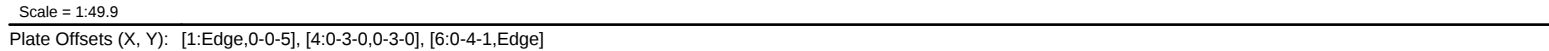
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LUMBER		6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 355 lb uplift at joint 1 and 353 lb uplift at joint 6.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
SLIDER	Right 2x4 SP No.3 -- 1-6-0	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	Rigid ceiling directly applied or 7-6-8 oc bracing.	
REACTIONS	(size) 1=0-5-8, 6=0-3-8	
	Max Horiz 1=143 (LC 12)	
	Max Uplift 1=-355 (LC 12), 6=-353 (LC 13)	
	Max Grav 1=1114 (LC 2), 6=1114 (LC 2)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1897/651, 2-3=-1727/652, 3-6=-1785/633	
BOT CHORD	1-9=-588/1642, 7-9=-260/1084, 6-7=-464/1544	
WEBS	3-7=-261/651, 4-7=-342/308, 3-9=-289/742, 2-9=-397/337	

- ## NOTES
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-11-0, Zone2 12-11-0 to 17-1-15, Zone1 17-1-15 to 25-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

June 4, 2026



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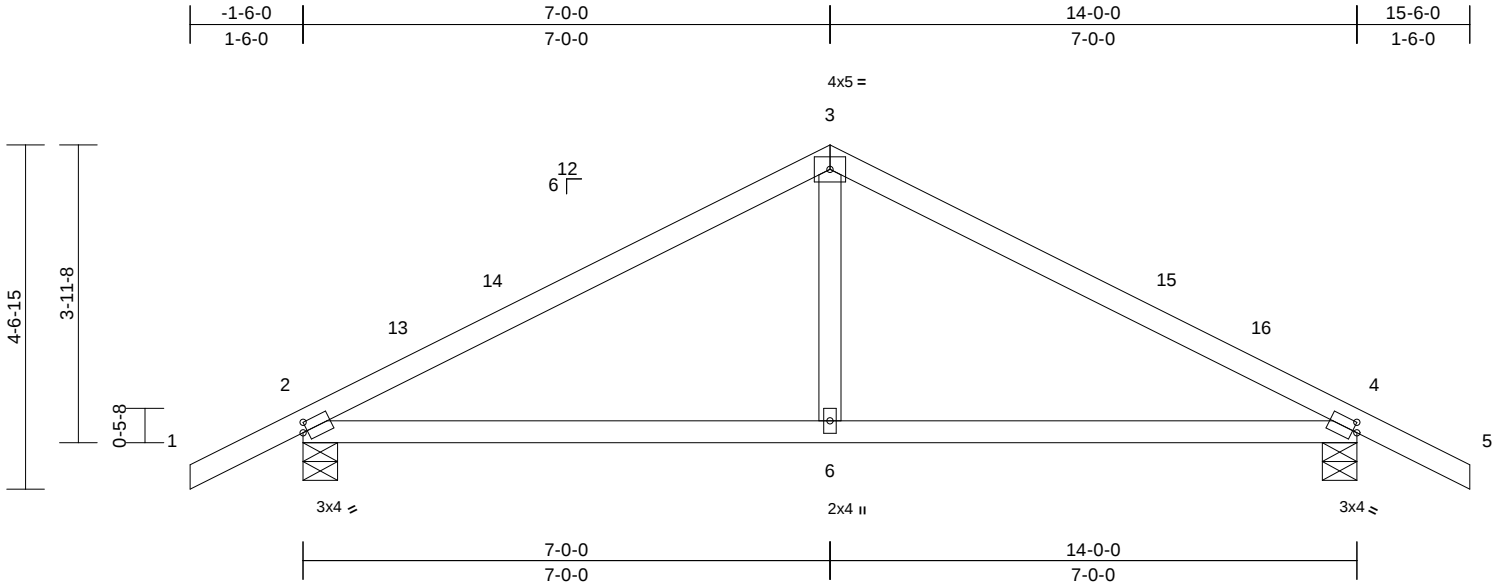
Job	Truss	Truss Type	Qty	Ply	
5481028	T04	Common	1	1	T41410371
Job Reference (optional)					

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

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Page: 1

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Scale = 1:30.6

Plate Offsets (X, Y): [2:0-0-12,0-1-8], [4:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.08	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.12	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-5-8, 4=0-5-8
Max Horiz 2=-89 (LC 13)
Max Uplift 2=-245 (LC 12), 4=-245 (LC 13)
Max Grav 2=650 (LC 1), 4=650 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-761/371, 3-4=-761/371, 4-5=0/40
BOT CHORD 2-6=-168/600, 4-6=-168/600
WEBS 3-6=-9/319

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 15-6-0 zone;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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 2 and 245 lb uplift at joint 4.

LOAD CASE(S) Standard

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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:

June 4,2026

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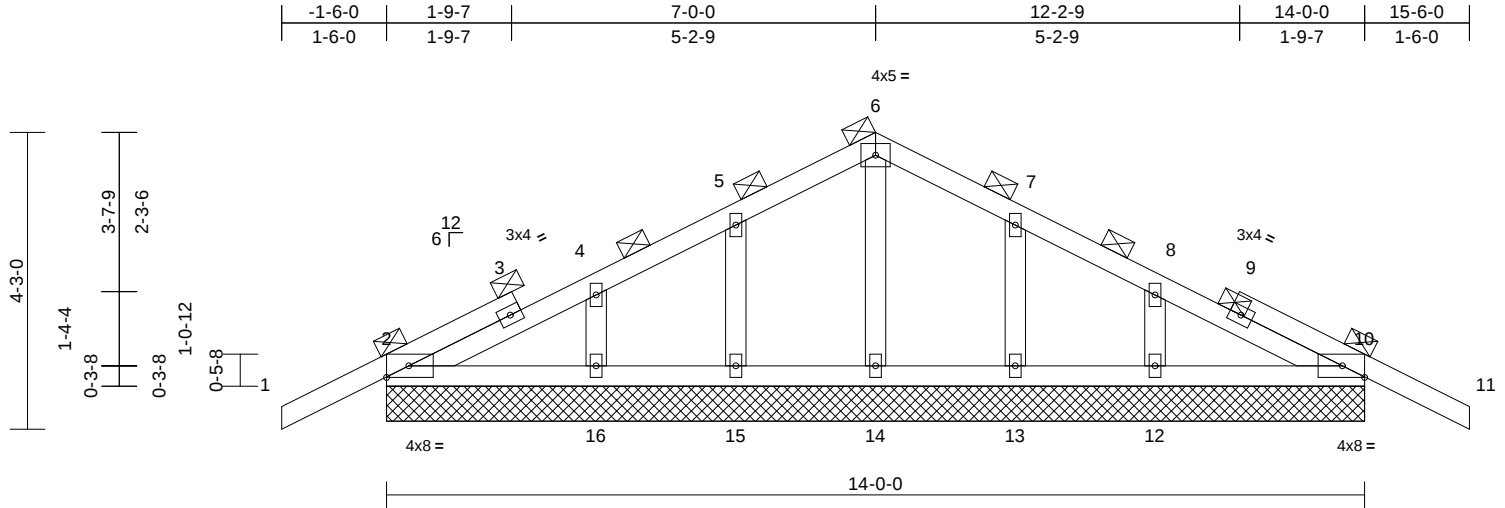
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Job	Truss	Truss Type	Qty	Ply	
5481028	T04G	Common Supported Gable	1	1	T41410372
Job Reference (optional)					

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

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Page: 1



Scale = 1:33

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	20	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)	2=14-0-0, 10=14-0-0, 12=14-0-0, 13=14-0-0, 14=14-0-0, 15=14-0-0, 16=14-0-0
Max Horiz	2=-83 (LC 13)
Max Uplift	2=-86 (LC 12), 10=-100 (LC 13), 12=-106 (LC 13), 13=-95 (LC 13), 15=-96 (LC 12), 16=-104 (LC 12)
Max Grav	2=222 (LC 1), 10=222 (LC 1), 12=198 (LC 1), 13=159 (LC 26), 14=146 (LC 1), 15=159 (LC 25), 16=198 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/40, 2-4=-133/58, 4-5=-43/88, 5-6=-63/171, 6-7=-64/171, 7-8=-38/86, 8-10=-130/50, 10-11=0/40
BOT CHORD	2-16=-47/171, 15-16=-26/123, 14-15=-26/123, 13-14=-26/123, 12-13=-26/123, 10-12=-47/182
WEBS	6-14=-103/0, 5-15=-124/173, 4-16=-142/182, 7-13=-124/172, 8-12=-142/181

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 (II) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 2, 100 lb uplift at joint 10, 96 lb uplift at joint 15, 104 lb uplift at joint 16, 95 lb uplift at joint 13, 106 lb uplift at joint 12, 86 lb uplift at joint 2 and 100 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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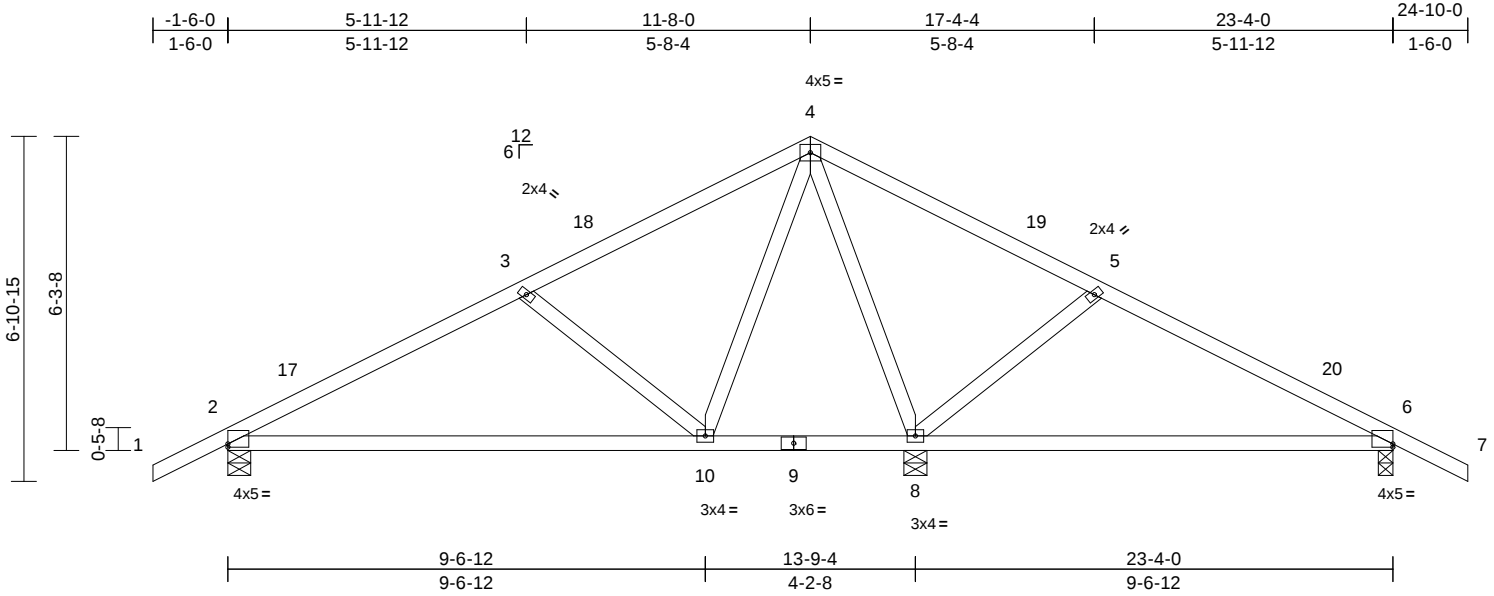
Job	Truss	Truss Type	Qty	Ply	
5481028	T05	Common	3	1	T41410373
Job Reference (optional)					

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

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Scale = 1:46.1

Plate Offsets (X, Y): [2:Edge,0-0-13], [6:Edge,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	0.25	8-16	>466	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.39	10-13	>427	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 111 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.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size)	2=0-5-8, 6=0-3-8, 8=0-5-8
	Max Horiz	2=-139 (LC 17)
	Max Uplift	2=-234 (LC 12), 6=-218 (LC 8), 8=-342 (LC 12)
	Max Grav	2=628 (LC 25), 6=479 (LC 26), 8=975 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/40, 2-3=-707/309, 3-4=-432/217, 4-5=-200/179, 5-6=-392/265, 6-7=0/40	
BOT CHORD	2-10=-246/596, 8-10=-32/244, 6-8=-162/316	
WEBS	4-8=-605/298, 5-8=-409/333, 4-10=-180/415, 3-10=-401/323	

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 24-10-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 234 lb uplift at joint 2, 342 lb uplift at joint 8 and 218 lb uplift at joint 6.

LOAD CASE(S) Standard

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Date:

June 4,2026

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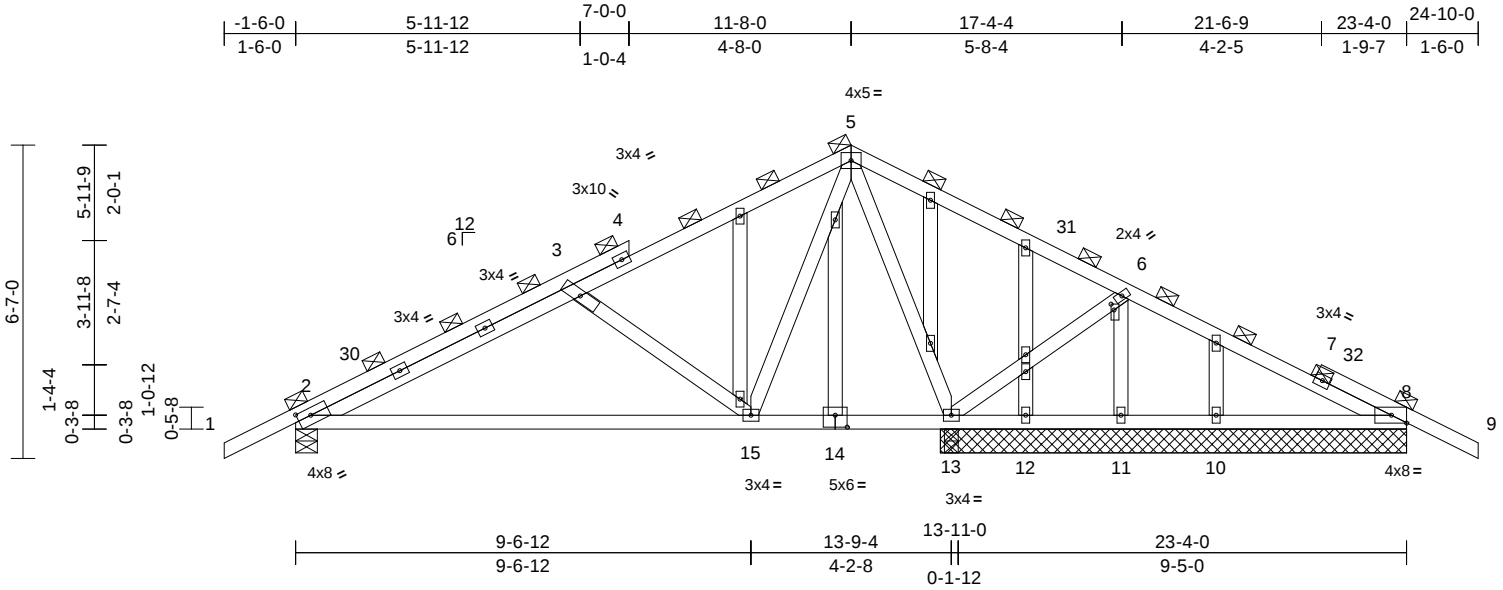
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Job	Truss	Truss Type	Qty	Ply	T41410374
5481028	T05G	Common Structural Gable	1	1	Job Reference (optional)

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:33
ID:2JS6QBK0VpdHuW0U4JzAMwE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.11	15-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.23	15-26	>698	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 152 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc
bracing. Except:
10-0-0 oc bracing: 2-15.

REACTIONS

(size) 2=0-5-8, 8=9-9-8, 10=9-9-8,
11=9-9-8, 12=9-9-8, 13=9-9-8
Max Horiz 2=-133 (LC 13)
Max Uplift 2=-220 (LC 12), 8=-150 (LC 13),
10=-34 (LC 13), 11=-3 (LC 26),
13=-408 (LC 12)
Max Grav 2=581 (LC 25), 8=308 (LC 26),
10=161 (LC 3), 11=45 (LC 3),
12=90 (LC 3), 13=1043 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/46, 2-3=-615/225, 3-5=-287/109,
5-6=-108/398, 6-8=-149/134, 8-9=0/40
BOT CHORD 2-15=-232/537, 13-15=-57/216,
12-13=-96/113, 11-12=-96/113,
10-11=-96/113, 8-10=-96/160
WEBS 5-15=-174/460, 3-15=-441/344,
5-13=-834/342, 6-13=-386/328

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone
and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0,
Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 24-10-0
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 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 220 lb uplift at joint
2, 408 lb uplift at joint 13, 34 lb uplift at joint 10, 3 lb uplift
at joint 11, 150 lb uplift at joint 8 and 150 lb uplift at joint
8.
- Graphical purlin representation does not depict the size
or the orientation of the purlin along the top and/or
bottom chord.

LOAD CASE(S) Standard

This item has been
digitally signed and
sealed by O'Regan, Philip, PE
on the date indicated here.
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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:

June 4,2026

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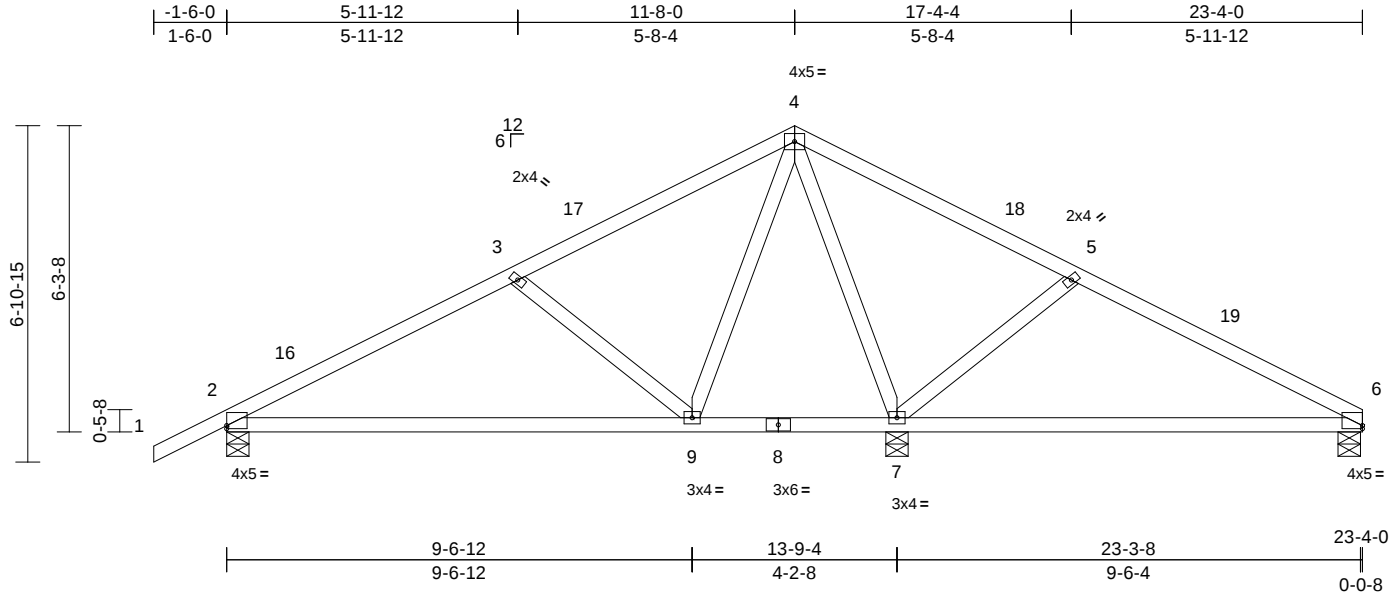
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T06	Common	2	1	T41410375
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:33
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Page: 1



Scale = 1:47.3

Plate Offsets (X, Y): [2:Edge,0-0-13], [6:Edge,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.28	7-12	>413	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.39	7-12	>294	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 108 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-5-8, 6=0-5-8, 7=0-5-8
Max Horiz 2=154 (LC 16)
Max Uplift 2=-234 (LC 12), 6=-195 (LC 8),
7=-344 (LC 12)
Max Grav 2=632 (LC 1), 6=394 (LC 26),
7=963 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-3=-713/330, 3-4=-438/238,
4-5=-210/212, 5-6=-424/319
BOT CHORD 2-9=-261/601, 7-9=-17/227, 6-7=-212/348
WEBS 4-7=-579/297, 5-7=-419/338, 4-9=-179/414,
3-9=-402/323

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 23-4-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 6, 234 lb uplift at joint 2 and 344 lb uplift at joint 7.

LOAD CASE(S) Standard

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:

June 4,2026

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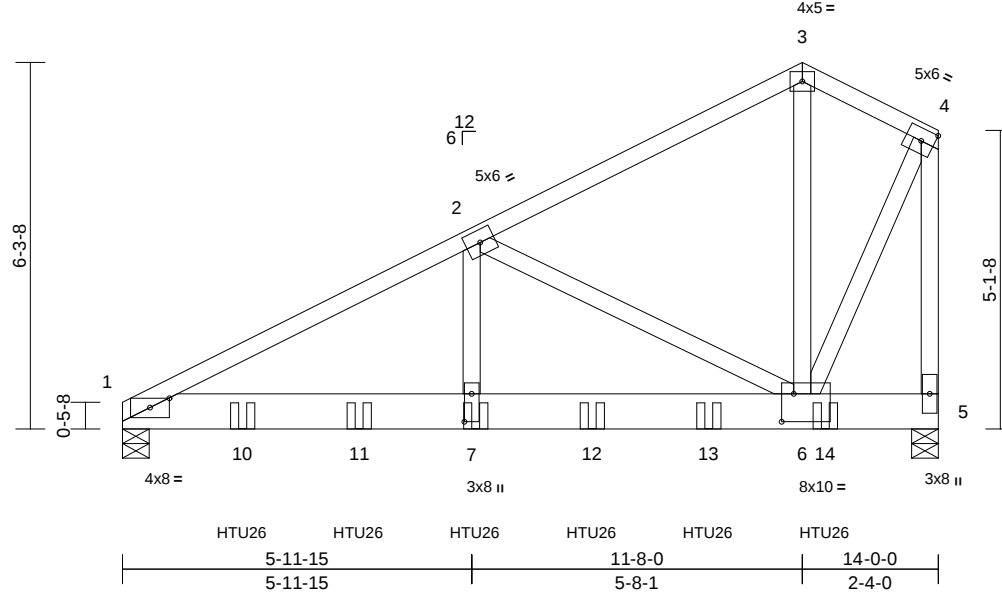
Job	Truss	Truss Type	Qty	Ply	
5481028	T07	Common Girder	1	2	Job Reference (optional)
T41410376					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:34

Page: 1

ID:6TNC888PULnHSL3u03b0wzAMvk-RfC?PsB70Hq3NSgPqnL8w3uItXBGKWrCD0i7J4zJC?f



Scale = 1:39.5

Plate Offsets (X, Y): [1:0-4-0,0-1-15], [6:0-2-8,0-5-12], [7:0-5-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.07	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.12	7-9	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 202 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING

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

REACTIONS (size) 1=0-5-8, 5=0-5-8
Max Horiz 1=254 (LC 8)
Max Uplift 1=-1255 (LC 8), 5=-1352 (LC 8)
Max Grav 1=3728 (LC 2), 5=3846 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-5984/1989, 2-3=-1725/558, 3-4=-1672/594, 4-5=-3951/1385
BOT CHORD 1-7=-1951/5328, 6-7=-1951/5328, 5-6=-5/14
WEBS 3-6=-411/1311, 2-6=-4348/1615, 2-7=-1143/3628, 4-6=-1234/3497

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Web 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.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1255 lb uplift at joint 1 and 1352 lb uplift at joint 5.
- Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) 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 front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 1-5=-20
Concentrated Loads (lb)
Vert: 7=-1011 (F), 10=-1011 (F), 11=-1011 (F), 12=-1011 (F), 13=-1011 (F), 14=-1011 (F)

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 63634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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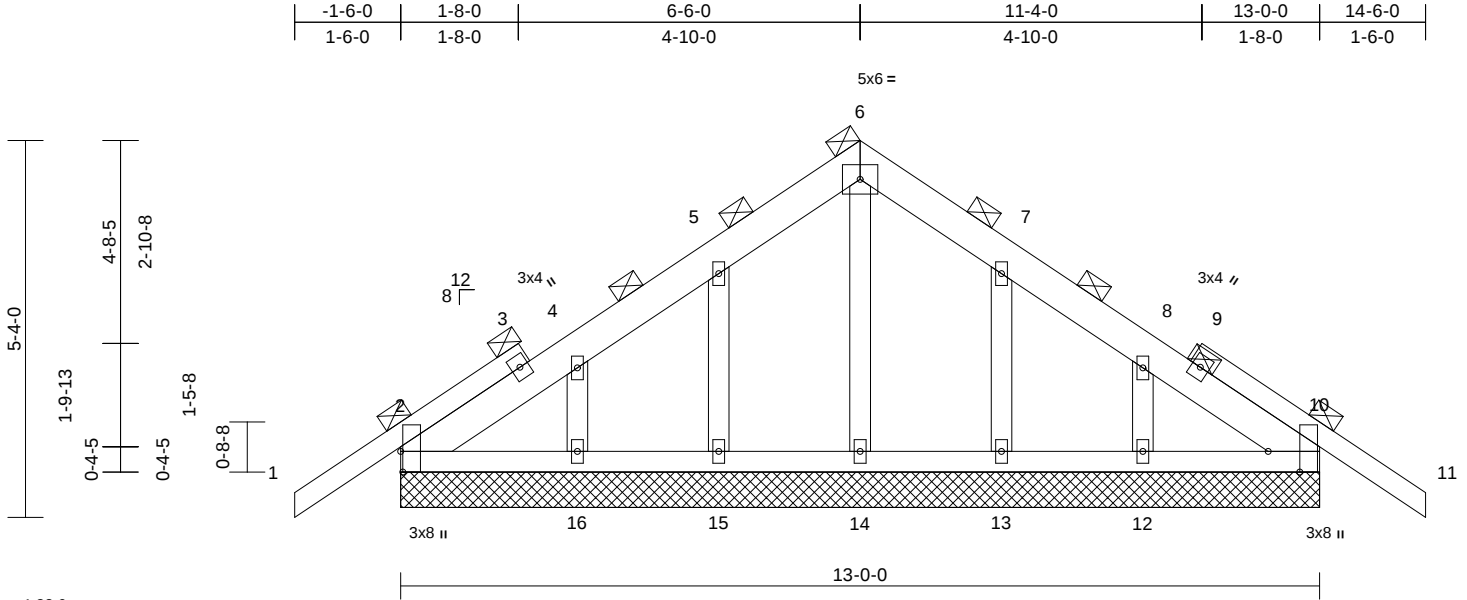
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T08G	Common Supported Gable	1	1	T41410377
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:34
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Page: 1



Scale = 1:32.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	21	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 85 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-6,6-10:2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS (size) 2=13-0-0, 10=13-0-0, 12=13-0-0, 13=13-0-0, 14=13-0-0, 15=13-0-0, 16=13-0-0
Max Horiz 2=152 (LC 11)
Max Uplift 2=-63 (LC 13), 10=-79 (LC 13), 12=-120 (LC 13), 13=-104 (LC 13), 15=-104 (LC 12), 16=-121 (LC 12)
Max Grav 2=211 (LC 25), 10=211 (LC 26), 12=187 (LC 20), 13=182 (LC 20), 14=154 (LC 22), 15=183 (LC 19), 16=189 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/50, 2-4=-95/93, 4-5=-85/98, 5-6=-127/204, 6-7=-127/204, 7-8=-77/94, 8-10=-54/50, 10-11=0/50
BOT CHORD 2-16=-42/157, 15-16=-42/157, 14-15=-42/157, 13-14=-42/157, 12-13=-42/157, 10-12=-42/157
WEBS 6-14=-114/19, 5-15=-145/182, 4-16=-166/193, 7-13=-143/181, 8-12=-165/192

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 2, 79 lb uplift at joint 10, 104 lb uplift at joint 15, 121 lb uplift at joint 16, 104 lb uplift at joint 13, 120 lb uplift at joint 12, 63 lb uplift at joint 2 and 79 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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:

June 4,2026

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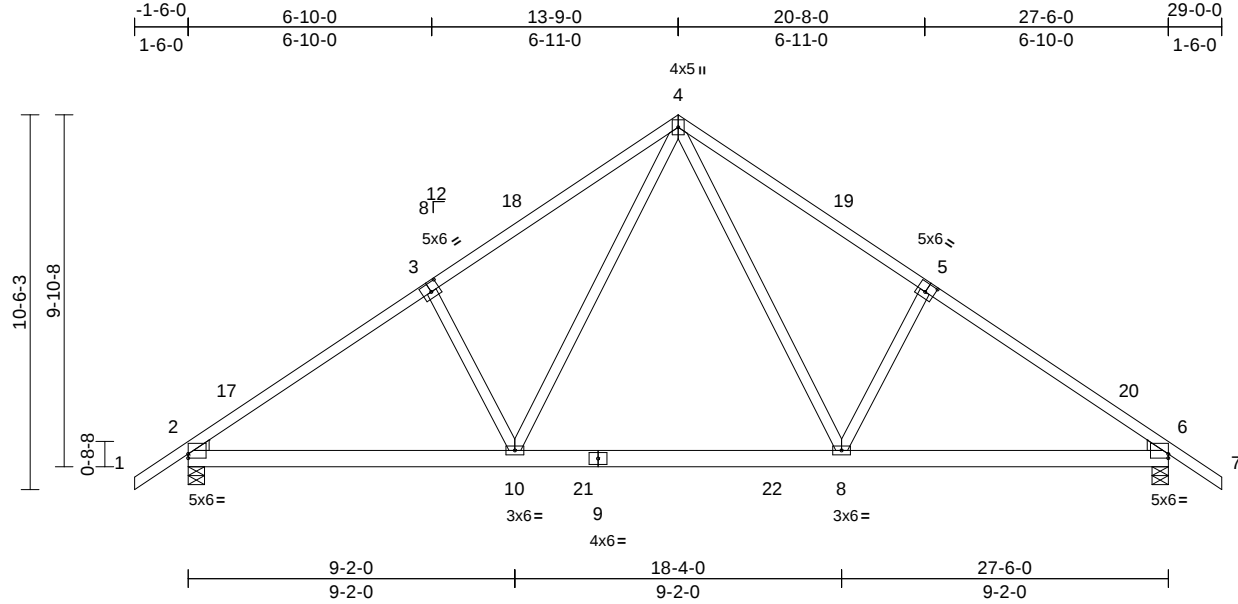
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T09	Common	4	1	T41410378
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:34
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Page: 1



Scale = 1:64.6											
Plate Offsets (X, Y): [2:Edge,0-1-6], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:Edge,0-1-6]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.17	8-10	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.32	8-10	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.03	6	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 lb FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.1 *Except* 3-1,5-7:2x4 SP No.2
BOT CHORD	2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3 Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-5-8, 6=0-5-8
Max Horiz	2=-317 (LC 10)
Max Uplift	2=-534 (LC 12), 6=-534 (LC 13)
Max Grav	2=1645 (LC 19), 6=1645 (LC 20)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/50, 2-4=-2259/797, 4-6=-2259/797, 6-7=0/50
BOT CHORD	2-10=-650/2003, 8-10=-278/1316, 6-8=-466/1799
WEBS	3-10=-411/381, 4-10=-461/1152, 4-8=-461/1152, 5-8=-412/381

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 29-0-0 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 3-06-00 tall by 2-00-00 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 534 lb uplift at joint 2 and 534 lb uplift at joint 6.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80, 8-14=-20

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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:

June 4,2026

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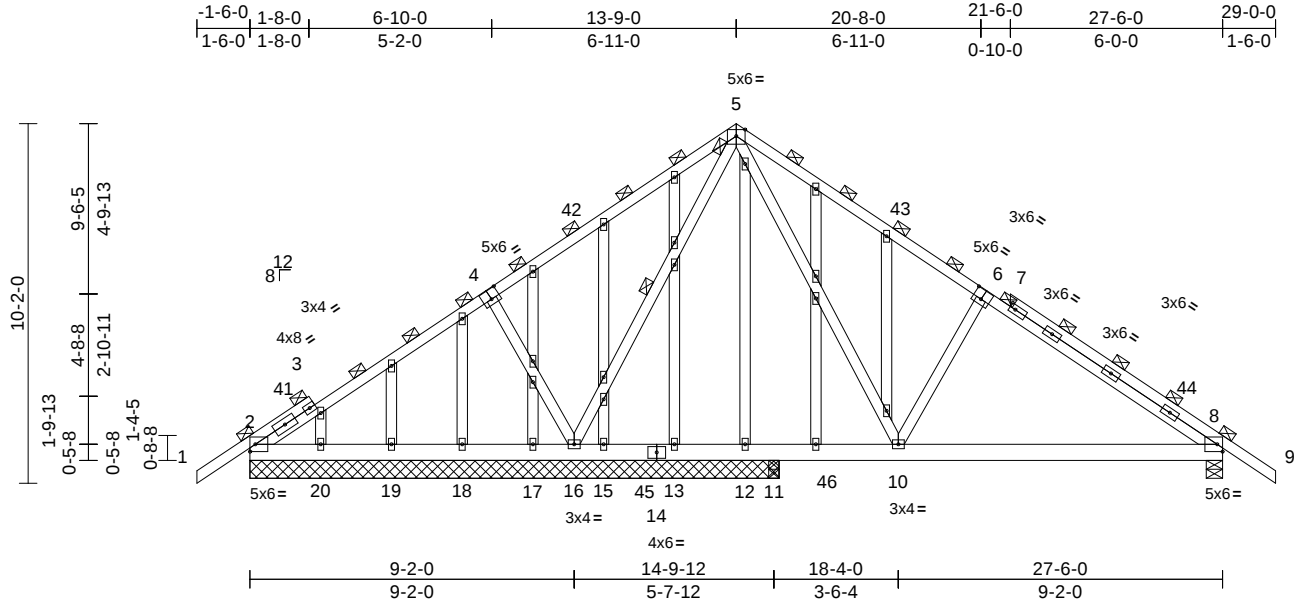
Job	Truss	Truss Type	Qty	Ply	
5481028	T09G	Common Structural Gable	1	1	T41410379
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:34

Page: 1

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Scale = 1:65.1

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [6:0-3-0,0-3-4], [7:0-2-0,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.04	10-40	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.09	10-40	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.01	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 245 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-16

REACTIONS (size)	2=14-11-8, 8=0-5-8, 11=0-3-8, 12=14-11-8, 13=14-11-8, 15=14-11-8, 16=14-11-8, 17=14-11-8, 18=14-11-8, 19=14-11-8, 20=14-11-8
	Max Horiz 2=-307 (LC 10)
Max Uplift	2=-41 (LC 8), 8=-303 (LC 13), 11=-115 (LC 13), 12=-138 (LC 1), 16=-495 (LC 12), 19=-2 (LC 1), 20=-172 (LC 12)
	Max Grav 2=252 (LC 25), 8=879 (LC 20), 11=259 (LC 20), 12=107 (LC 13), 13=129 (LC 18), 15=63 (LC 18), 16=931 (LC 19), 17=69 (LC 18), 18=87 (LC 3), 19=64 (LC 18), 20=272 (LC 19)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/50, 2-5=-228/221, 5-8=-875/364, 8-9=0/58
BOT CHORD	2-20=-177/234, 19-20=-152/234, 18-19=-152/234, 17-18=-152/234, 16-17=-152/234, 15-16=-14/333, 13-15=-14/333, 12-13=-14/333, 11-12=-14/333, 10-11=-14/333, 8-10=-107/670

WEBS	5-10=-302/689, 6-10=-460/390, 5-16=-659/238, 4-16=-415/371
------	--

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 29-0-0 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 (I) 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 3-06-00 tall by 2-00-00 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 41 lb uplift at joint 2, 495 lb uplift at joint 16, 172 lb uplift at joint 20, 2 lb uplift at joint 19, 138 lb uplift at joint 12, 303 lb uplift at joint 8, 115 lb uplift at joint 11 and 41 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

June 4,2026

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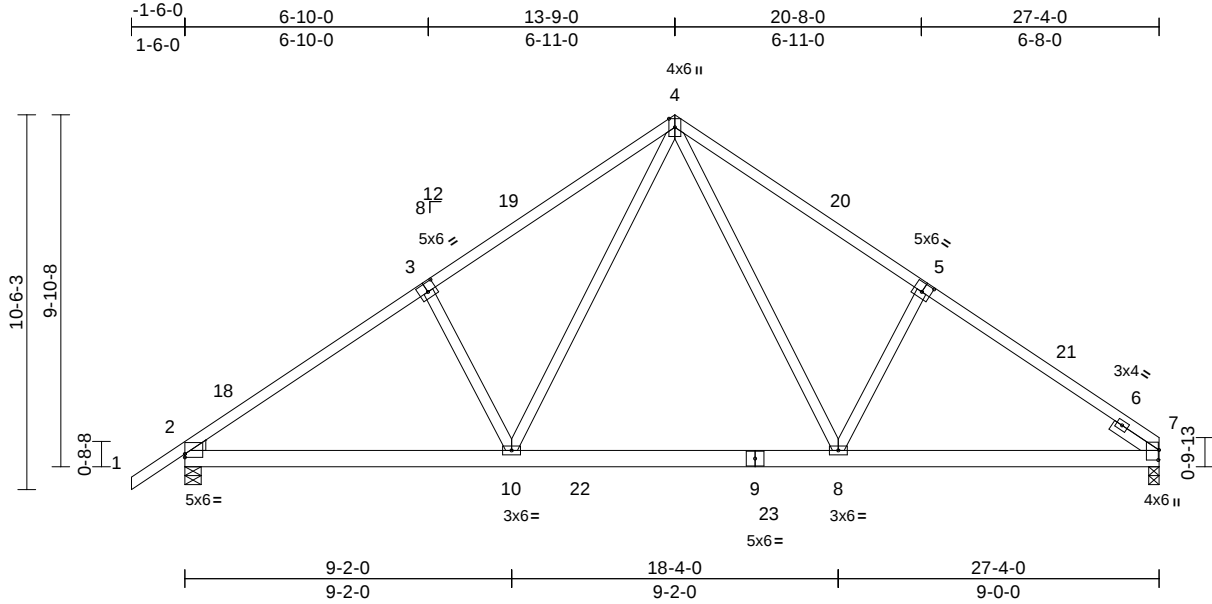
Job	Truss	Truss Type	Qty	Ply	
5481028	T10	Common	8	1	T41410380
Job Reference (optional)					

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

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Scale = 1:64.6

Plate Offsets (X, Y): [2:Edge,0-1-2], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [7:0-3-6,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.21	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.40	8-10	>826	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 164 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1 *Except* 5-7,3-1:2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-10-5 oc bracing.

REACTIONS (size) 2=0-5-8, 7=0-3-8
Max Horiz 2=306 (LC 9)
Max Uplift 2=-533 (LC 12), 7=-480 (LC 13)
Max Grav 2=1637 (LC 19), 7=1549 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-2248/794, 4-7=-2202/792
BOT CHORD 2-10=-671/1977, 8-10=-300/1290,
7-8=-484/1745
WEBS 4-8=-456/1120, 5-8=-382/366,
4-10=-460/1155, 3-10=-407/379

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 27-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 7 and 533 lb uplift at joint 2.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 10-15=-20, 8-10=-80, 8-11=-20

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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

June 4,2026

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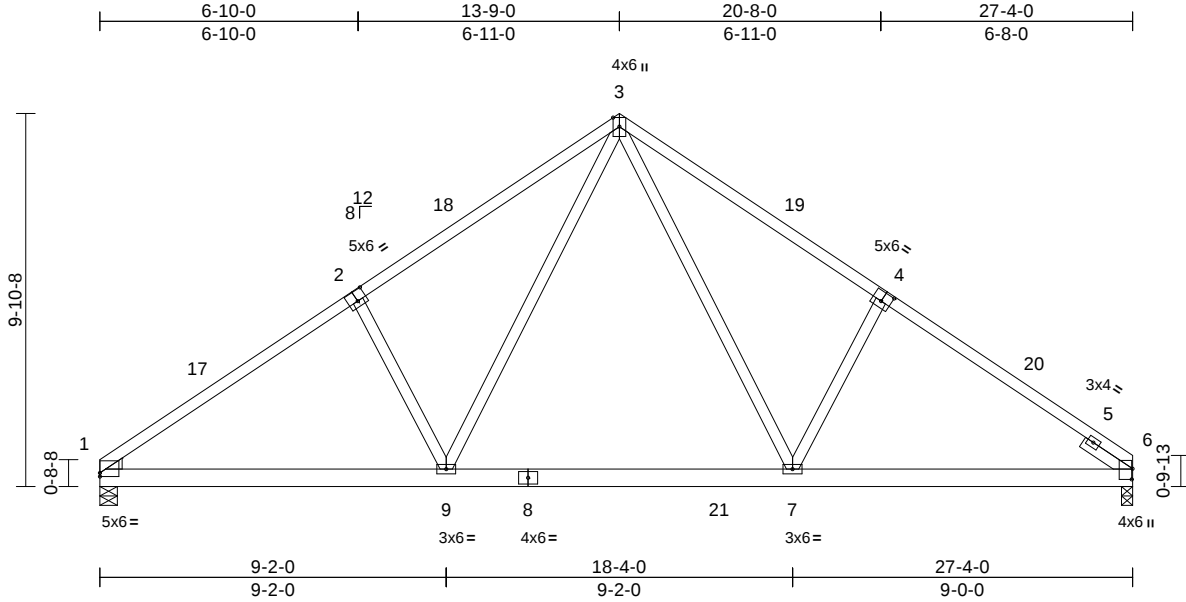
Job	Truss	Truss Type	Qty	Ply	
5481028	T11	Common	1	1	T41410381
Job Reference (optional)					

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

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Scale = 1:61

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.20	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.39	7-9	>837	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 161 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 2-3,4-3:2x4 SP No.1
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
SLIDER Right 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing.

REACTIONS (size) 1=0-5-8, 6=0-3-8
Max Horiz 1=285 (LC 9)
Max Uplift 1=-481 (LC 12), 6=-481 (LC 13)
Max Grav 1=1546 (LC 19), 6=1548 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2256/802, 3-6=-2202/793
BOT CHORD 1-9=-679/1984, 7-9=-302/1292,
6-7=-488/1745
WEBS 3-7=-455/1118, 4-7=-383/366, 3-9=-469/1165,
2-9=-411/382

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 27-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at joint 1 and 481 lb uplift at joint 6.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-6=-60, 9-10=-20, 7-9=-80, 7-13=-20

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

June 4,2026

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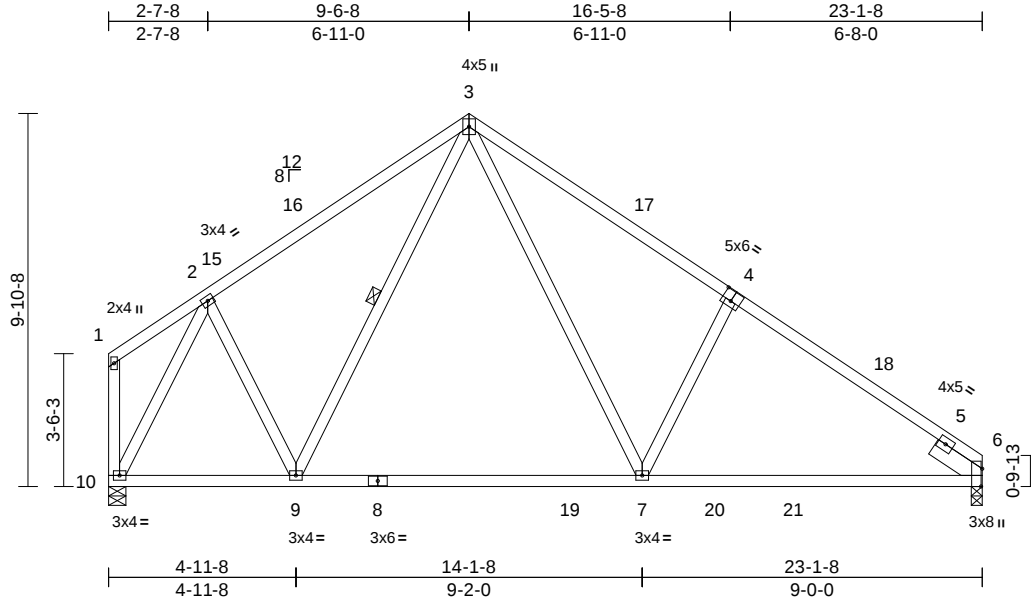
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5481028	T12	Common	7	1	T41410382

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Page: 1



Scale = 1:61

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [6:0-5-10,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.26	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.41	7-9	>676	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 138 lb											FT = 20%	

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 3-9

REACTIONS

(size)	6=0-3-8, 10=0-5-8
Max Horiz	10=-273 (LC 8)
Max Uplift	6=-306 (LC 13), 10=-285 (LC 13)
Max Grav	6=1094 (LC 20), 10=1050 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-22/100, 2-3=-894/386, 3-6=-1374/489, 1-10=-33/29
BOT CHORD	9-10=-209/692, 7-9=-85/707, 6-7=-243/1062
WEBS	3-7=-329/847, 4-7=-415/384, 3-9=-136/172, 2-9=-74/396, 2-10=-1164/384

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 4-4-4 to 7-4-4, Zone1 7-4-4 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 27-4-0 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 3-06-00 tall by 2-00-00 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 306 lb uplift at joint 6 and 285 lb uplift at joint 10.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

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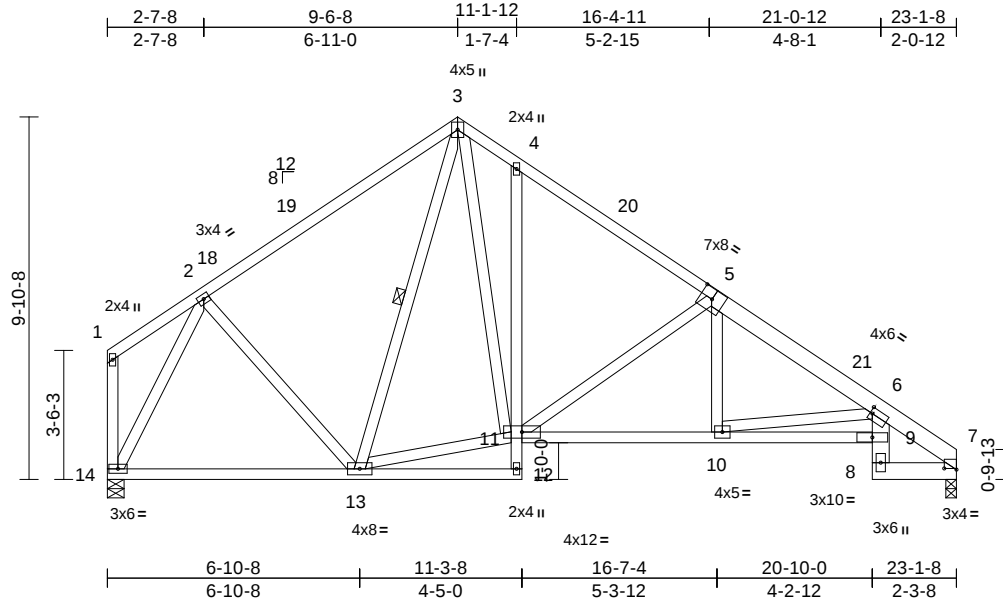
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5481028	T13	Roof Special	2	1	T41410383

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Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [5:0-4-0,0-3-4], [6:0-0-12,0-2-0], [7:0-4-0,0-0-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	0.06	9-10	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.12	13-14	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	7	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 176 lb FT = 20%											

LUMBER

TOP CHORD	2x4 SP No.2 *Except* 5-7:2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 12-4:2x4 SP No.3, 6-8,8-7:2x6 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 3-13

REACTIONS	(size) 7=0-3-8, 14=0-5-8
	Max Horiz 14=-275 (LC 8)
	Max Uplift 7=-306 (LC 13), 14=-285 (LC 13)
	Max Grav 7=919 (LC 1), 14=919 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-27/86, 2-3=-783/376, 3-4=-856/480, 4-6=-1443/481, 6-7=-1252/432, 1-14=-38/20
BOT CHORD	13-14=-209/573, 12-13=-18/28, 11-12=0/56, 4-11=-215/208, 10-11=-277/1173, 9-10=-612/1925, 8-9=-19/88, 6-9=-3/148, 7-8=-278/872
WEBS	5-11=-601/345, 2-14=-978/402, 3-13=-144/44, 2-13=-71/238, 11-13=-71/615, 3-11=-362/740, 5-10=-35/336, 6-10=-766/370

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 4-4-4 to 7-4-4, Zone1 7-4-4 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 27-4-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 7 and 285 lb uplift at joint 14.

LOAD CASE(S) Standard

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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:

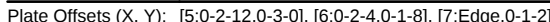
June 4,2026

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

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Page: 1LOAD CASE(S) Standard

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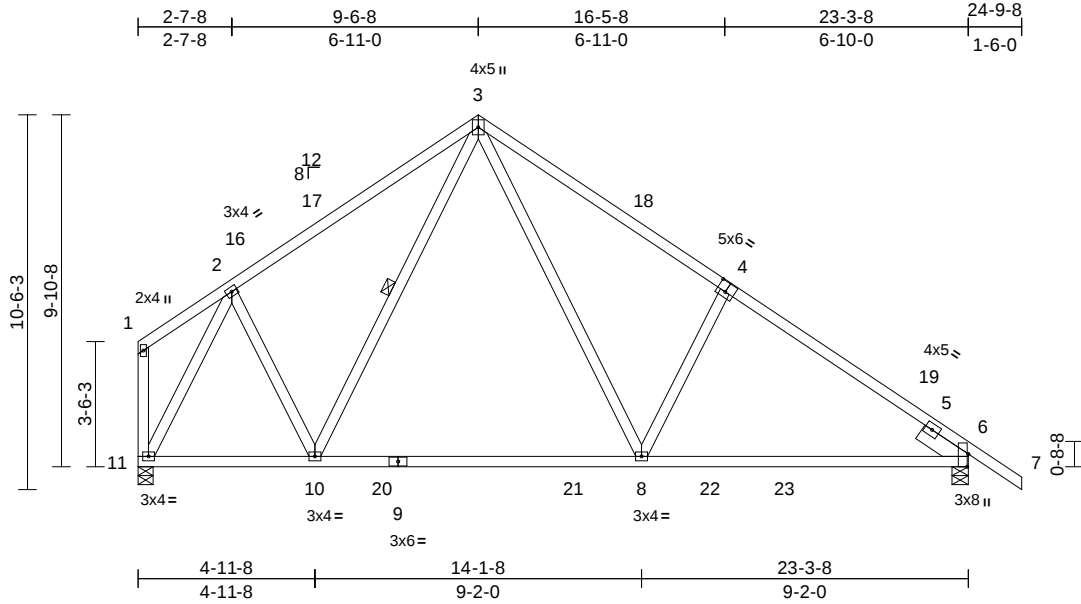
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5481028	T15	Common	1	1	T41410385

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:35
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Page: 1



Scale = 1:64.6

Plate Offsets (X, Y): [4:0-3-0,0-3-4], [6:0-4-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.26	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.40	8-10	>691	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 141 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Right 2x6 SP No.2 -- 1-6-0

BRACING

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

REACTIONS

(size)	6=0-5-8, 11=0-5-0
Max Horiz	11=-315 (LC 13)
Max Uplift	6=-361 (LC 13), 11=-286 (LC 13)
Max Grav	6=1193 (LC 20), 11=1058 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-22/100, 2-3=-901/386, 3-6=-1397/486, 6-7=0/50, 1-11=-33/29
BOT CHORD	10-11=-190/713, 8-10=-62/730, 6-8=-211/1092
WEBS	3-8=-331/869, 4-8=-428/386, 3-10=-137/169, 2-10=-74/400, 2-11=-1174/381

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 4-4-4 to 7-4-4, Zone1 7-4-4 to 13-9-0, Zone2 13-9-0 to 17-11-15, Zone1 17-11-15 to 29-0-0 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 3-06-00 tall by 2-00-00 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 286 lb uplift at joint 11 and 361 lb uplift at joint 6.

LOAD CASE(S) Standard

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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:

June 4,2026

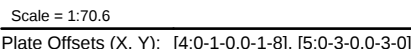
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:35 Page: 1
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LUMBER		Unbalanced roof live loads have been considered for this design.		Vert: 1-4=-60, 4-8=-60, 20-42=-20
TOP CHORD	2x4 SP No.2			Concentrated Loads (lb)
BOT CHORD	2x6 SP No.2			Vert: 45=-18 (B), 46=-18 (B), 47=-18 (B), 49=-18 (B)
WEBS	2x4 SP No.3			
OTHERS	2x4 SP No.3			
BRACING				
TOP CHORD	2-0-0 oc purlins, except end verticals.			
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.			
WEBS	1 Row at midpt 4-13			
REACTIONS (size)				
	7=14-3-8, 9=14-3-8, 10=14-3-8, 11=14-3-8, 12=14-3-8, 13=14-3-8, 14=14-3-8, 15=14-3-8, 17=14-3-8, 18=0-3-8, 20=0-5-0			
	Max Horiz 20=-303 (LC 9)			
	Max Uplift 7=-23 (LC 5), 9=-198 (LC 28), 13=-431 (LC 9), 17=-213 (LC 15), 18=-116 (LC 8), 20=-245 (LC 8)			
	Max Grav 7=237 (LC 1), 9=291 (LC 16), 10=69 (LC 14), 11=84 (LC 3), 12=74 (LC 3), 13=729 (LC 1), 14=57 (LC 3), 15=124 (LC 14), 17=108 (LC 8), 18=413 (LC 15), 20=633 (LC 15)			
FORCES (lb) - Maximum Compression/Maximum Tension				
TOP CHORD	1-20=-42/26, 1-3=-27/93, 3-4=-487/303, 4-7=-243/178, 7-8=0/50			
BOT CHORD	19-20=-239/495, 18-19=-98/325, 17-18=-98/325, 15-17=-98/325, 14-15=-98/325, 13-14=-98/325, 12-13=-17/196, 11-12=-17/196, 10-11=-17/196, 9-10=-17/196, 7-9=-56/196			
WEBS	3-20=-627/298, 3-19=-105/270, 4-19=-234/345, 4-13=-483/212, 5-13=-414/371			
		1) Unbalanced roof live loads have been considered for this design. 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted. 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60 4) 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. 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 6) All plates are 2x4 (I) MT20 unless otherwise indicated. 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 245 lb uplift at joint 20, 431 lb uplift at joint 13, 213 lb uplift at joint 17, 198 lb uplift at joint 9, 23 lb uplift at joint 7, 116 lb uplift at joint 18 and 23 lb uplift at joint 7. 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines. 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).		Vert: 1-4=-60, 4-8=-60, 20-42=-20 Concentrated Loads (lb) Vert: 45=-18 (B), 46=-18 (B), 47=-18 (B), 49=-18 (B)
LOAD CASE(S) Standard				
1) Dead + Roof Live (balanced) Lumber Increase=1.25				

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Vert: 1-4=-60, 4-8=-60, 20-42=-20
Concentrated Loads (lb)
Vert: 45=-18 (B), 46=-18 (B), 47=-18 (B), 49=-18 (B)

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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:

June 4.2026



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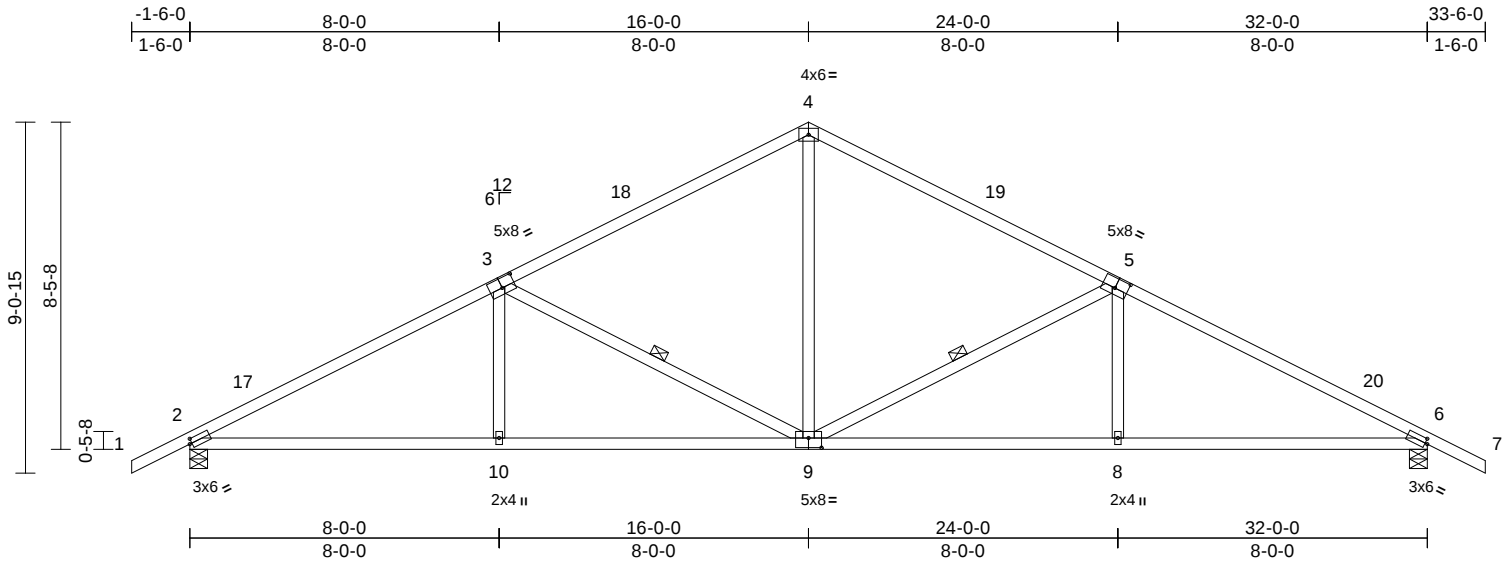
MiTek®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T16	Common	3	1	T41410387
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:35
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Page: 1



Scale = 1:59.6

Plate Offsets (X, Y): [2:0-0-12,0-1-8], [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [6:0-0-12,0-1-8], [9:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.11	10-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.26	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.09	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 155 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.
BOT CHORD Rigid ceiling directly applied or 6-9-12 oc bracing.
WEBS 1 Row at midpt 3-9, 5-9

REACTIONS

(size) 2=0-5-8, 6=0-5-8
Max Horiz 2=184 (LC 16)
Max Uplift 2=-494 (LC 12), 6=-494 (LC 13)
Max Grav 2=1370 (LC 1), 6=1370 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-4=-2266/754, 4-6=-2266/754, 6-7=0/40
BOT CHORD 2-10=-713/1941, 8-10=-713/1940, 6-8=-565/1941
WEBS 3-10=0/322, 3-9=-764/468, 4-9=-262/847, 5-9=-764/469, 5-8=0/322

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-8-6, Zone1 1-8-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 33-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 494 lb uplift at joint 6 and 494 lb uplift at joint 2.

LOAD CASE(S) Standard

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:

June 4,2026

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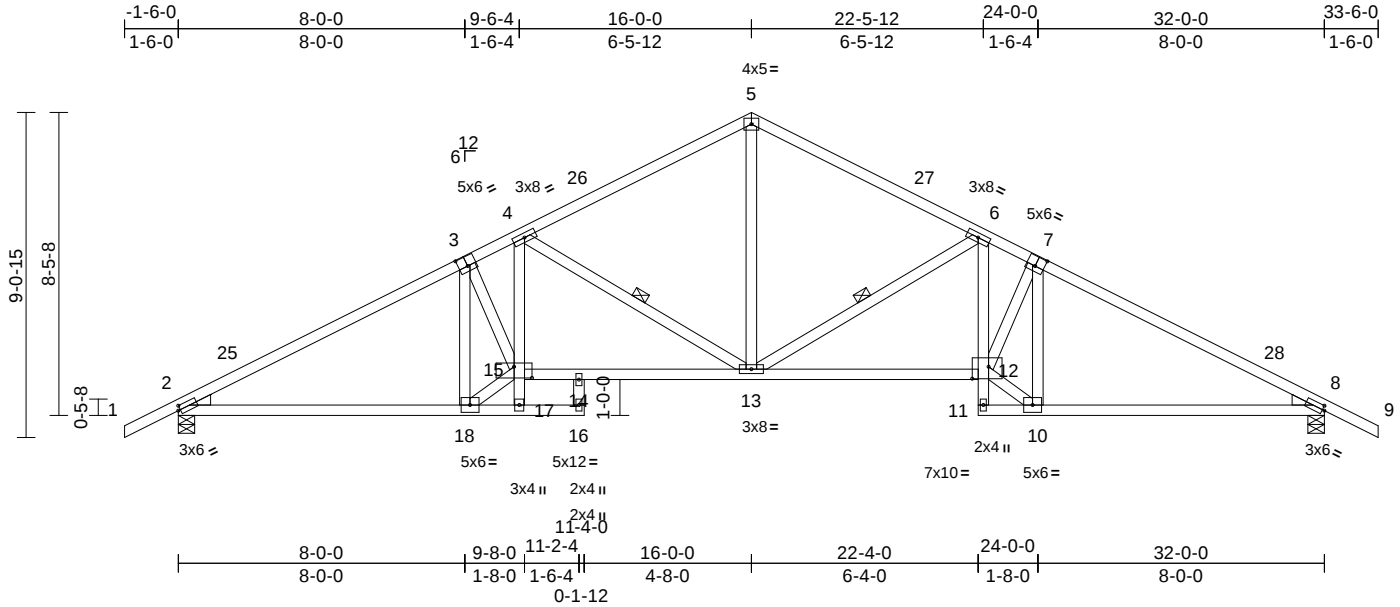
Job	Truss	Truss Type	Qty	Ply	
5481028	T17	Roof Special	2	1	T41410388
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:35

Page: 1

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Scale = 1:64.3

Plate Offsets (X, Y): [2:0-0-12,0-1-8], [3:0-3-0,0-3-4], [7:0-3-0,0-3-4], [8:0-0-12,0-1-8], [12:0-5-8,0-4-0], [15:0-6-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.15	12-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.34	12-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.16	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 183 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 17-4,6-11:2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-8-8 oc bracing.
WEBS 1 Row at midpt 4-13, 6-13

REACTIONS (size) 2=0-5-8, 8=0-5-8
Max Horiz 2=-184 (LC 13)
Max Uplift 2=-494 (LC 12), 8=-494 (LC 13)
Max Grav 2=1370 (LC 1), 8=1370 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/40, 2-4=-2531/932, 4-5=-1713/662, 5-6=-1713/659, 6-8=-2590/923, 8-9=0/40
BOT CHORD 2-18=-698/1920, 17-18=-108/195, 16-17=0/0, 15-17=-154/83, 4-15=-311/700, 14-15=-765/2247, 13-14=-765/2244, 12-13=-646/2303, 11-12=-98/9, 6-12=-307/764, 10-11=-54/76, 8-10=-545/1919
WEBS 3-15=-109/640, 4-13=-925/500, 6-13=-992/496, 7-12=-172/756, 5-13=-344/1077, 3-18=-1082/423, 15-18=-740/2161, 7-10=-1216/395, 10-12=-616/2308, 14-16=-39/96

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-8-6, Zone1 1-8-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 33-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 494 lb uplift at joint 2 and 494 lb uplift at joint 8.

LOAD CASE(S) Standard

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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:

June 4,2026

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

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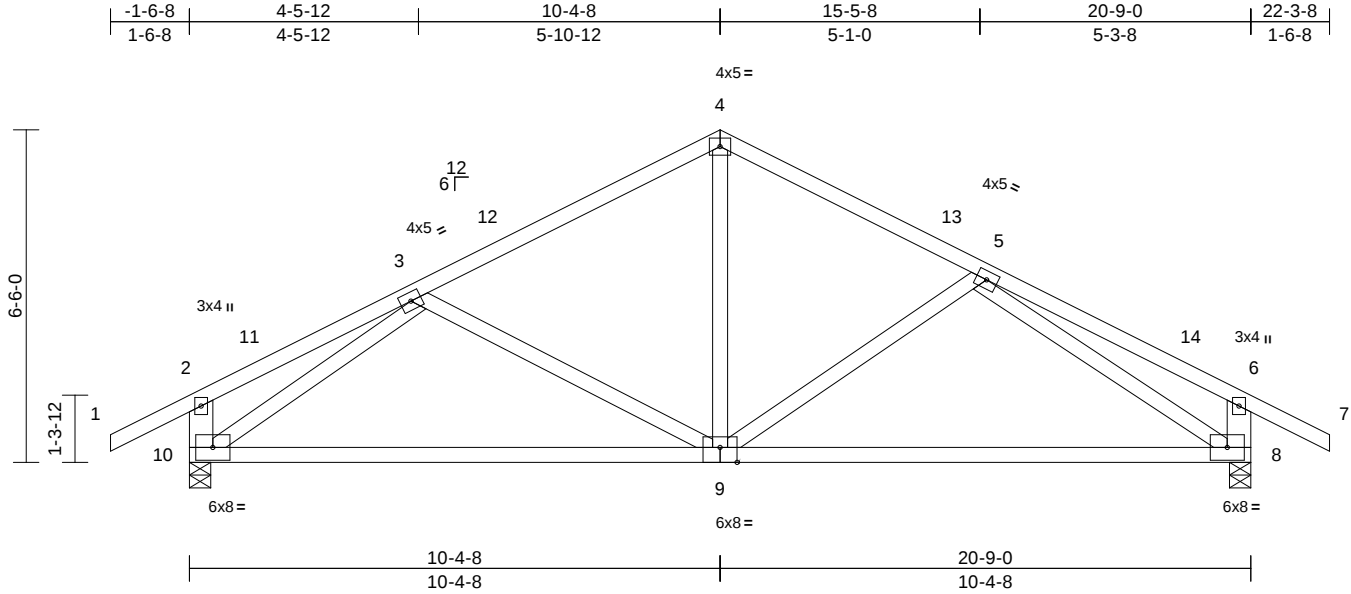
Job	Truss	Truss Type	Qty	Ply	
5481028	T18	Common	1	1	T41410389
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:35

Page: 1

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Scale = 1:45

Plate Offsets (X, Y): [9:0-4-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.18	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.36	9-10	>669	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 119 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except* 8-6,10-2:2x6 SP No.2

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

REACTIONS (size) 8=0-5-0, 10=0-5-0
Max Horiz 10=143 (LC 11)
Max Uplift 8=-337 (LC 13), 10=-337 (LC 12)
Max Grav 8=918 (LC 1), 10=918 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-190/64, 3-4=-866/381, 4-5=-853/388, 5-6=-246/129, 6-7=0/48, 6-8=-321/277, 2-10=-248/224
BOT CHORD 8-10=-343/824
WEBS 3-9=-188/248, 4-9=-125/459, 5-9=-195/240, 5-8=-864/365, 3-10=-952/438

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 12-1-0, Zone2 12-1-0 to 16-3-15, Zone1 16-3-15 to 24-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 8 and 337 lb uplift at joint 10.

LOAD CASE(S) Standard

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

June 4,2026

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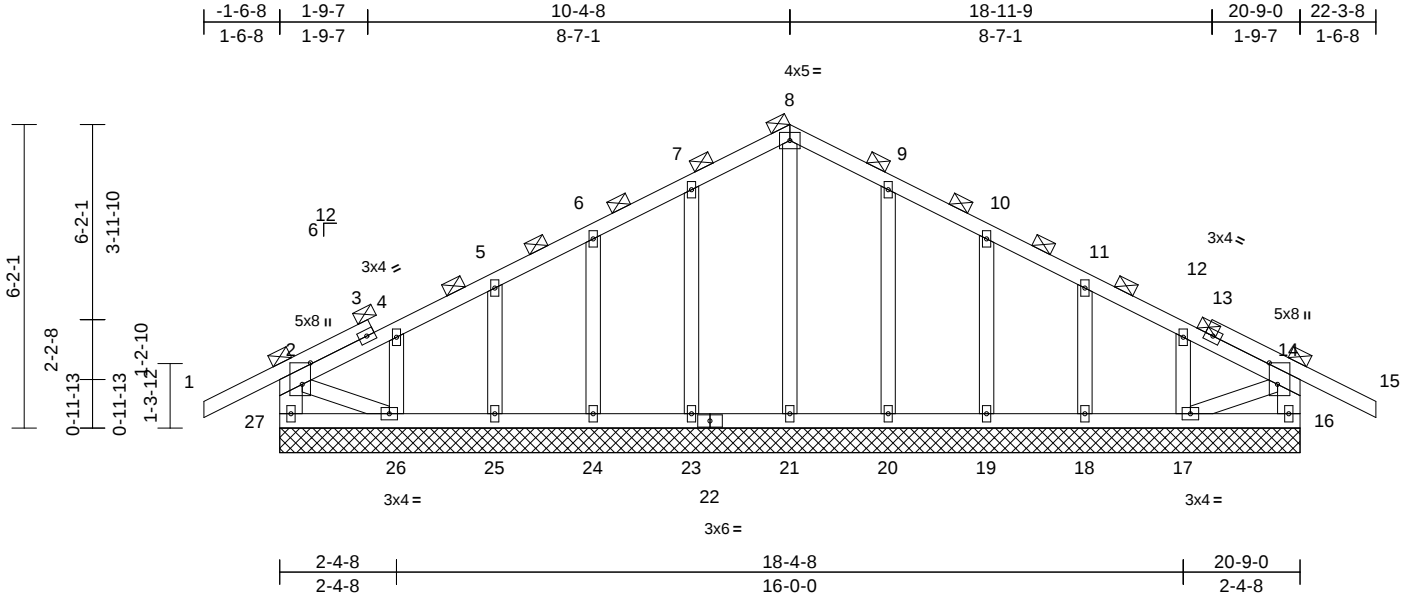
Job	Truss	Truss Type	Qty	Ply	
5481028	T18G	Common Supported Gable	1	1	T41410390
Job Reference (optional)					

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

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Page: 1

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Scale = 1:46.9

Plate Offsets (X, Y): [2:0-5-4,0-2-0], [14:0-5-4,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 131 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except* 2-26,14-17:2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING
TOP CHORD 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-27,16-17.

REACTIONS (size) 16=20-9-0, 17=20-9-0, 18=20-9-0, 19=20-9-0, 20=20-9-0, 21=20-9-0, 23=20-9-0, 24=20-9-0, 25=20-9-0, 26=20-9-0, 27=20-9-0
Max Horiz 27=119 (LC 12)
Max Uplift 16=50 (LC 9), 17=115 (LC 13), 18=96 (LC 13), 19=93 (LC 13), 20=95 (LC 13), 23=96 (LC 12), 24=93 (LC 12), 25=95 (LC 12), 26=129 (LC 12), 27=69 (LC 8)
Max Grav 16=230 (LC 1), 17=128 (LC 26), 18=164 (LC 26), 19=158 (LC 1), 20=169 (LC 26), 21=160 (LC 22), 23=169 (LC 25), 24=158 (LC 1), 25=164 (LC 25), 26=129 (LC 19), 27=230 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-27=-211/164, 1-2=0/40, 2-4=-112/56, 4-5=-71/70, 5-6=-47/96, 6-7=-57/149, 7-8=-80/218, 8-9=-80/218, 9-10=-57/149, 10-11=-35/80, 11-12=-41/36, 12-14=-71/37, 14-15=0/40, 14-16=-211/170

BOT CHORD 26-27=-79/118, 25-26=-35/142, 24-25=-35/142, 23-24=-35/142, 21-23=-35/142, 20-21=-35/142, 19-20=-35/142, 18-19=-35/142, 17-18=-35/142, 16-17=-27/68
WEBS 8-21=-120/5, 7-23=-129/138, 6-24=-118/138, 5-25=-125/143, 4-26=-97/115, 9-20=-129/138, 10-19=-118/138, 11-18=-125/143, 12-17=-97/115, 2-26=-30/124, 14-17=-36/96

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 69 lb uplift at joint 27, 50 lb uplift at joint 16, 96 lb uplift at joint 23, 93 lb uplift at joint 24, 95 lb uplift at joint 25, 129 lb uplift at joint 26, 95 lb uplift at joint 20, 93 lb uplift at joint 19, 96 lb uplift at joint 18 and 115 lb uplift at joint 17.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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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:

June 4,2026

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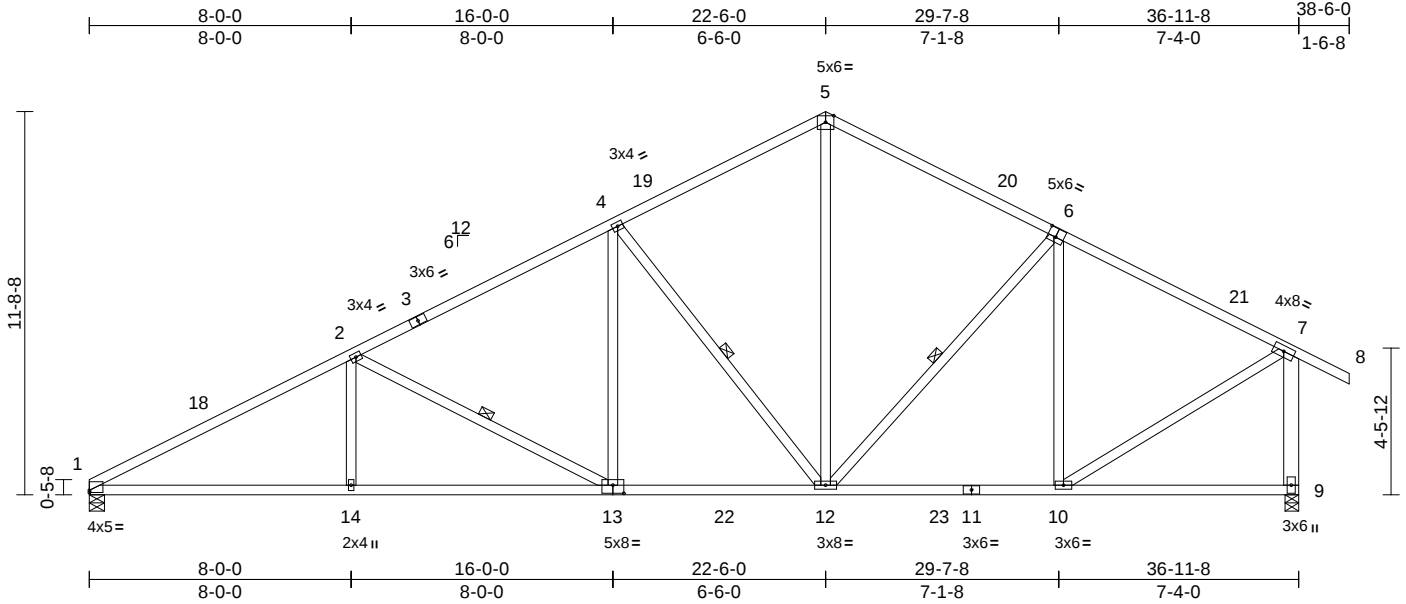
Job	Truss	Truss Type	Qty	Ply	
5481028	T19	Common	1	1	T41410391
Job Reference (optional)					

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

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Page: 1

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Scale = 1:70.4

Plate Offsets (X, Y): [1:Edge,0-0-13], [6:0-3-0,0-3-4], [13:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.18	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.36	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 229 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 9-7:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.
WEBS 1 Row at midpt 2-13, 4-12, 6-12

REACTIONS

(size) 1=0-5-8, 9=0-5-0
Max Horiz 1=313 (LC 11)
Max Uplift 1=-536 (LC 12), 9=-521 (LC 13)
Max Grav 1=1599 (LC 2), 9=1718 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2913/948, 2-4=-2163/776, 4-5=-1501/673, 5-7=-1506/643, 7-8=0/48, 7-9=-1609/694
BOT CHORD 1-14=-971/2558, 12-14=-971/2558, 10-12=-412/1248, 9-10=-76/111
WEBS 2-14=0/328, 2-13=-770/441, 4-13=-155/645, 4-12=-944/512, 5-12=-349/969, 6-12=-115/189, 6-10=-495/251, 7-10=-391/1405

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-8-6, Zone1 3-8-6 to 22-6-0, Zone2 22-6-0 to 27-8-12, Zone1 27-8-12 to 38-6-0 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3-06-00 tall by 2-00-00 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 536 lb uplift at joint 1 and 521 lb uplift at joint 9.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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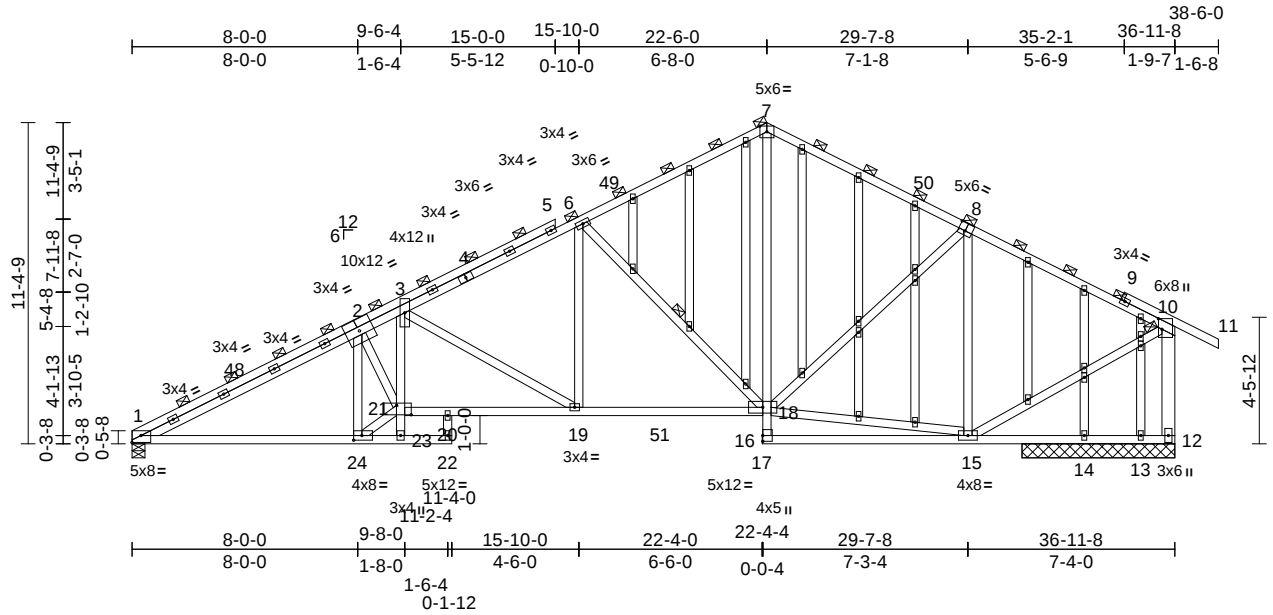
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T19G	Roof Special	1	1	T41410392
Job Reference (optional)					

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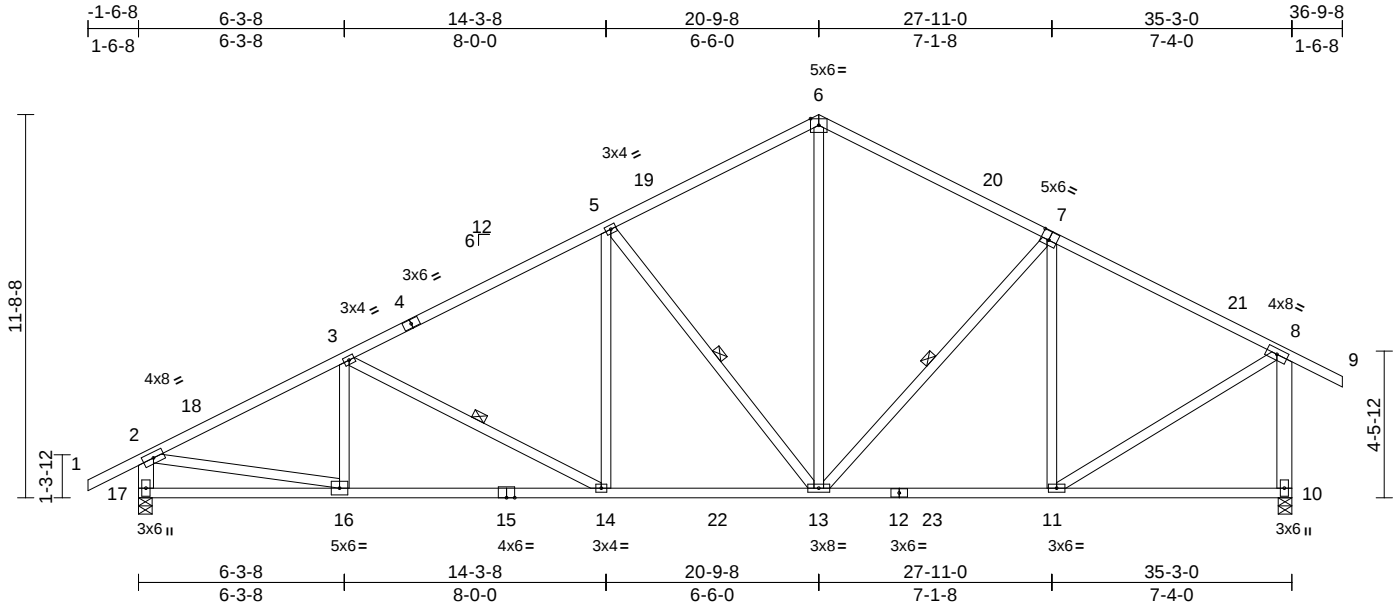
Job	Truss	Truss Type	Qty	Ply	T41410393
5481028	T20	Common	5	1	Job Reference (optional)

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:36

Page: 1

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Scale = 1:70.4

Plate Offsets (X, Y): [7:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.14	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	14-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 10-8,17-2:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-10-3 oc bracing.
WEBS 1 Row at midpt 3-14, 5-13, 7-13

REACTIONS

(size) 10=0-5-0, 17=0-5-0
Max Horiz 17=331 (LC 11)
Max Uplift 10=-503 (LC 13), 17=-558 (LC 12)
Max Grav 10=1631 (LC 2), 17=1609 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/48, 2-3=-2201/713, 3-5=-1916/680, 5-6=-1380/626, 6-8=-1385/595, 8-9=0/48, 8-10=-1523/664, 2-17=-1516/642
BOT CHORD 16-17=-318/349, 14-16=-745/1962, 13-14=-568/1671, 11-13=-388/1169, 10-11=-74/111
WEBS 2-16=-493/1815, 3-16=-156/139, 3-14=-335/269, 5-13=-780/455, 5-14=-80/453, 6-13=-314/864, 7-13=-139/199, 7-11=-451/238, 8-11=-365/1314

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-0 to 3-8-5, Zone1 3-8-5 to 22-6-0, Zone2 22-6-0 to 27-5-13, Zone1 27-5-13 to 38-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 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 503 lb uplift at joint 10 and 558 lb uplift at joint 17.

LOAD CASE(S) Standard

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Date:

June 4,2026

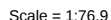
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:36 Page: 1
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.08	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.17	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 374 lb	FT = 20%

- 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2 zone and C-C Zone3 1-6-8 to 1-11-13, Zone1 1-11-13 to 20-9-8, Zone2 20-9-8 to 25-9-5, Zone1 25-9-5 to 36-9-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) 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.
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) All plates are 2x4 (I) MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2'-0" oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 22, 87 lb uplift at joint 12, 284 lb uplift at joint 14 and 676 lb uplift at joint 18.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

1) Unbalanced roof live loads have been considered for this design.

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:

June 4, 2026



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)

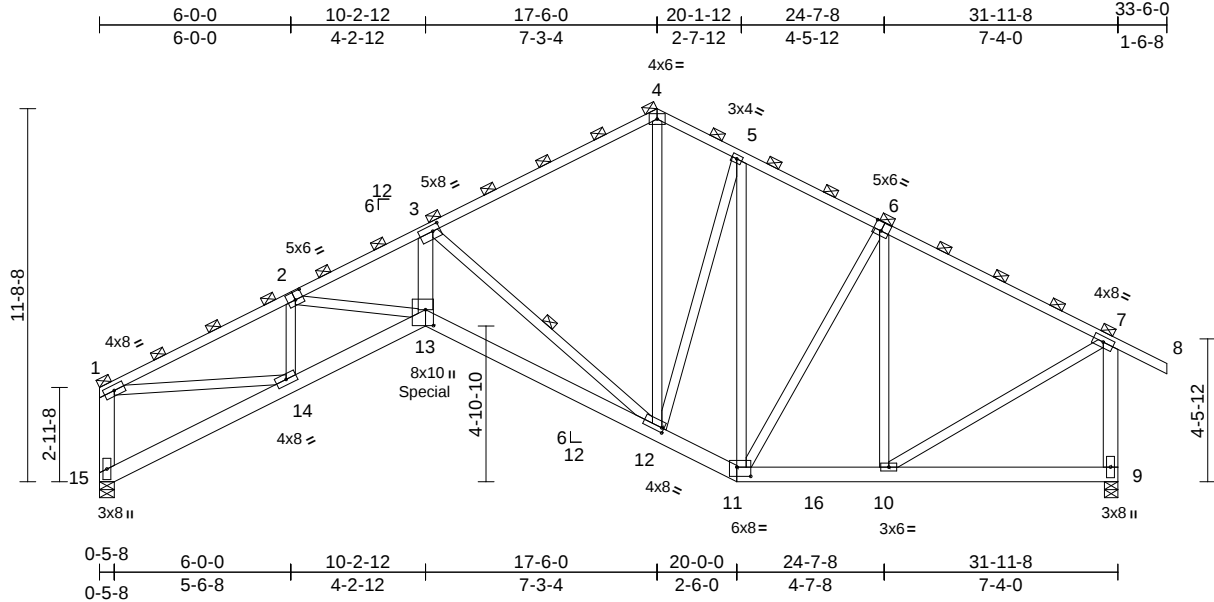
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T21	Roof Special Girder	2	2	T41410395
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:37
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Page: 1



Scale = 1:72.3

Plate Offsets (X, Y): [2:0-3-0,0-3-0], [3:0-2-12,0-2-4], [6:0-3-0,0-3-4], [11:0-5-4,0-3-8], [12:0-0-13,0-1-12], [13:0-6-0,0-3-0]

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	0.31	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(LL)	-0.55	12-13	>688		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.46	9	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 533 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except* 15-1,9-7:2x6 SP 2400F 2.0E or 2x6 SP M 26, 14-1:2x4 SP No.2, 3-13:2x6 SP No.2, 3-12:2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31

BRACING

TOP CHORD 2-0-0 oc purlins, except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-12

REACTIONS

(size) 9=0-5-0, 15=0-5-8
Max Horiz 15=754 (LC 7)
Max Uplift 9=-1339 (LC 9), 15=-1434 (LC 8)
Max Grav 9=3867 (LC 2), 15=3861 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-15=-3690/1600, 1-3=-11488/4549, 3-4=-3602/1455, 4-5=-3404/1566, 5-7=-3250/1416, 7-8=0/119, 7-9=-3567/1369
BOT CHORD 14-15=-814/764, 13-14=-3179/8209, 12-13=-4313/11827, 11-12=-760/3253, 10-11=-823/2721, 9-10=-185/164
WEBS 1-14=-2485/6636, 2-14=-2862/1305, 2-13=-1029/3264, 3-13=-3539/9427, 3-12=-9813/4209, 4-12=-947/2301, 5-12=-406/1296, 5-11=-1525/437, 6-11=-159/421, 6-10=-1116/509, 7-10=-758/2998

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 15 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 1339 lb uplift at joint 9 and 1434 lb uplift at joint 15.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 847 lb down and 497 lb up at 10-2-12 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-150, 4-7=-150, 7-8=-150, 13-15=-50, 11-13=-50, 9-11=-50
Concentrated Loads (lb)
Vert: 13=-847 (B)

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:

June 4,2026

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the 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.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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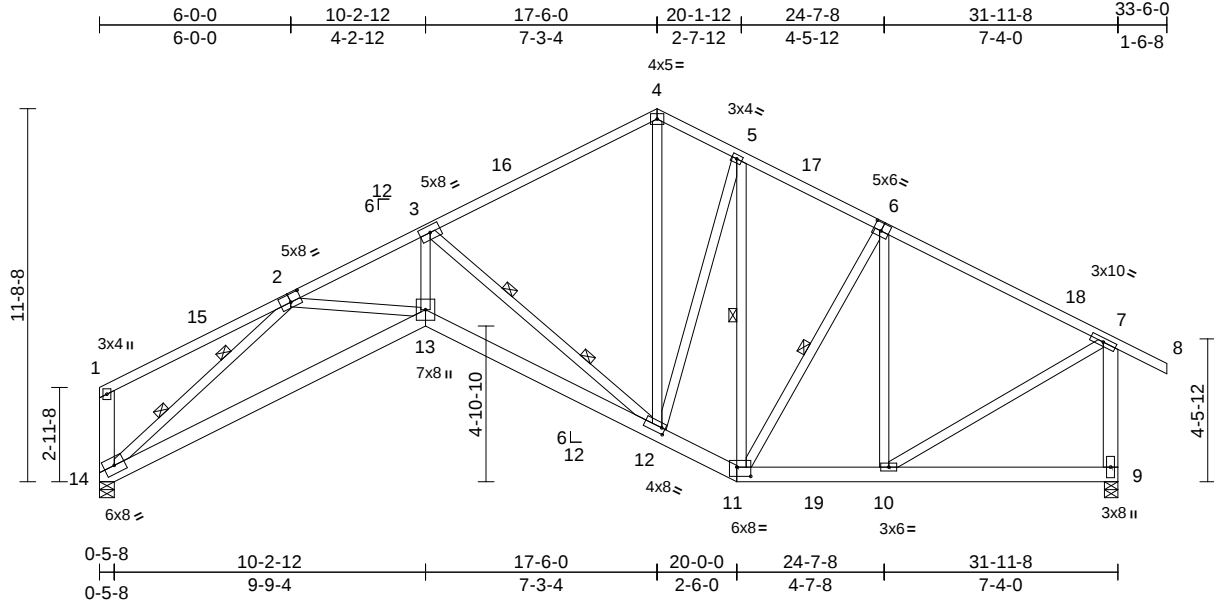
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	
5481028	T22	Roof Special	1	1	T41410396
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:37
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Page: 1



Scale = 1:72.3

Plate Offsets (X, Y): [2:0-4-0,0-3-0], [6:0-3-0,0-3-0], [11:0-5-4,0-3-8], [12:0-1-5,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.28	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.53	13-14	>709	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.45	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 264 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 14-1,9-7:2x6 SP No.2,
3-13,3-12:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-1-15 oc
bracing.
WEBS 1 Row at midpt 5-11, 6-11
WEBS 2 Rows at 1/3 pts 2-14, 3-12

REACTIONS

(size) 9=0-5-0, 14=0-5-8
Max Horiz 14=302 (LC 11)
Max Uplift 9=-472 (LC 13), 14=-438 (LC 12)
Max Grav 9=1454 (LC 2), 14=1345 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-14=-230/174, 1-3=-3859/1448,
3-4=-1290/552, 4-5=-1218/589,
5-7=-1203/546, 7-8=0/48, 7-9=-1336/612
BOT CHORD 13-14=-1104/2674, 12-13=-1442/4007,
11-12=-360/1177, 10-11=-343/1004,
9-10=-80/120
WEBS 5-11=-508/137, 6-11=-91/151, 6-10=-385/207,
7-10=-304/1105, 5-12=-106/420,
4-12=-312/792, 2-13=-312/1220,
2-14=-2889/1053, 3-13=-1018/3035,
3-12=-3229/1265

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat.
II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone
and C-C Zone3 0-2-12 to 3-5-2, Zone1 3-5-2 to 17-6-0,
Zone2 17-6-0 to 22-0-4, Zone1 22-0-4 to 33-6-0 zone;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber DOL=1.60
plate grip DOL=1.60
- 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 14 considers parallel to grain value
using ANSI/TPI 1 angle to grain formula. Building
designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 438 lb uplift at joint
14 and 472 lb uplift at joint 9.

LOAD CASE(S) Standard

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digitally signed and
sealed by O'Regan, Philip, PE
on the date indicated here.
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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:

June 4,2026

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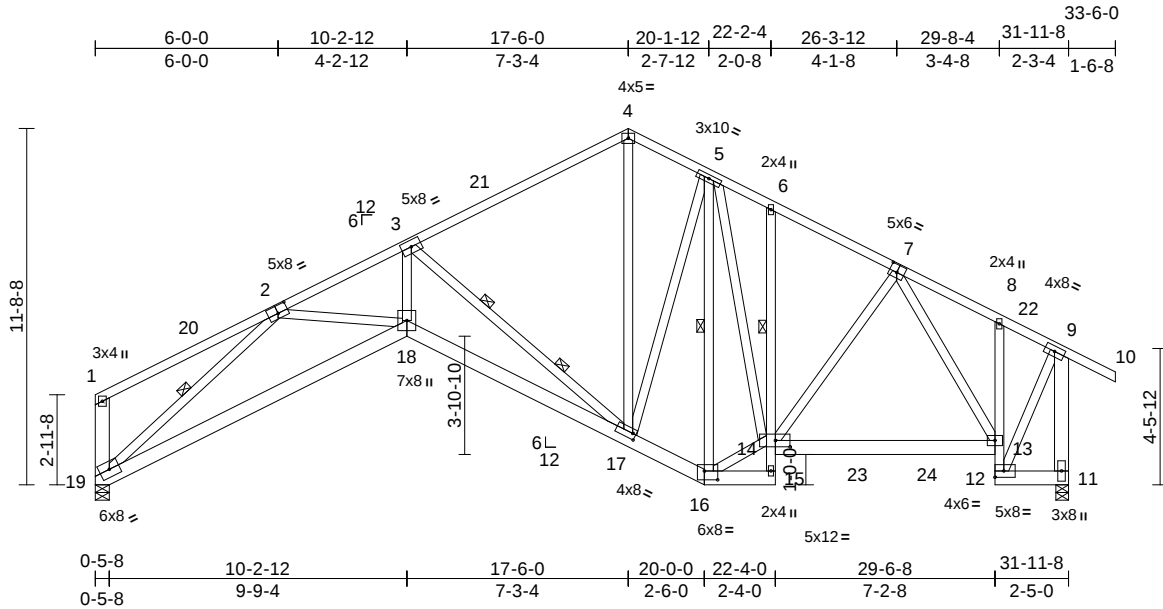
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	T23	Roof Special	3	1	T41410397
Job Reference (optional)					

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

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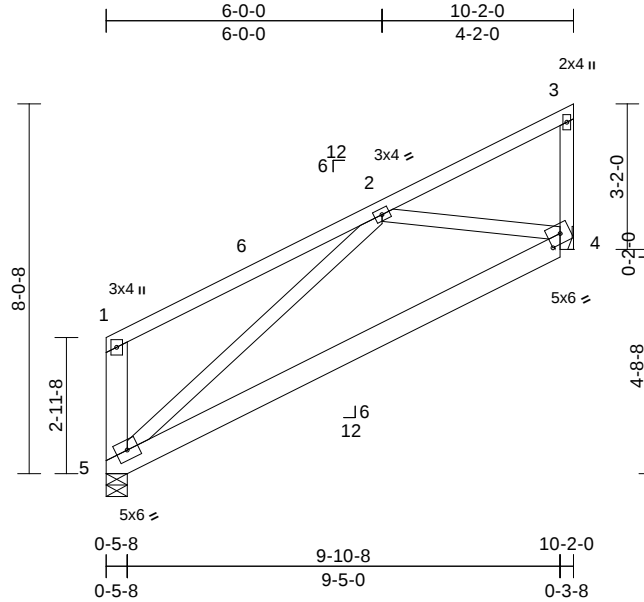


Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5481028	T24	Roof Special	3	1	T41410398

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

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Page: 1



Scale = 1:50.1

Plate Offsets (X, Y): [4:0-3-5,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.10	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.20	4-5	>595	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 70 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 5-1:2x6 SP No.2

BRACING

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

REACTIONS (size) 4= Mechanical, 5=0-5-8
Max Horiz 5=217 (LC 9)
Max Uplift 4=-221 (LC 12), 5=-56 (LC 12)
Max Grav 4=392 (LC 1), 5=392 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-205/180, 1-2=-205/177, 2-3=-99/9, 3-4=-73/109
BOT CHORD 4-5=-509/460
WEBS 2-5=-371/183, 2-4=-353/447

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 10-0-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 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 56 lb uplift at joint 5 and 221 lb uplift at joint 4.

LOAD CASE(S) Standard

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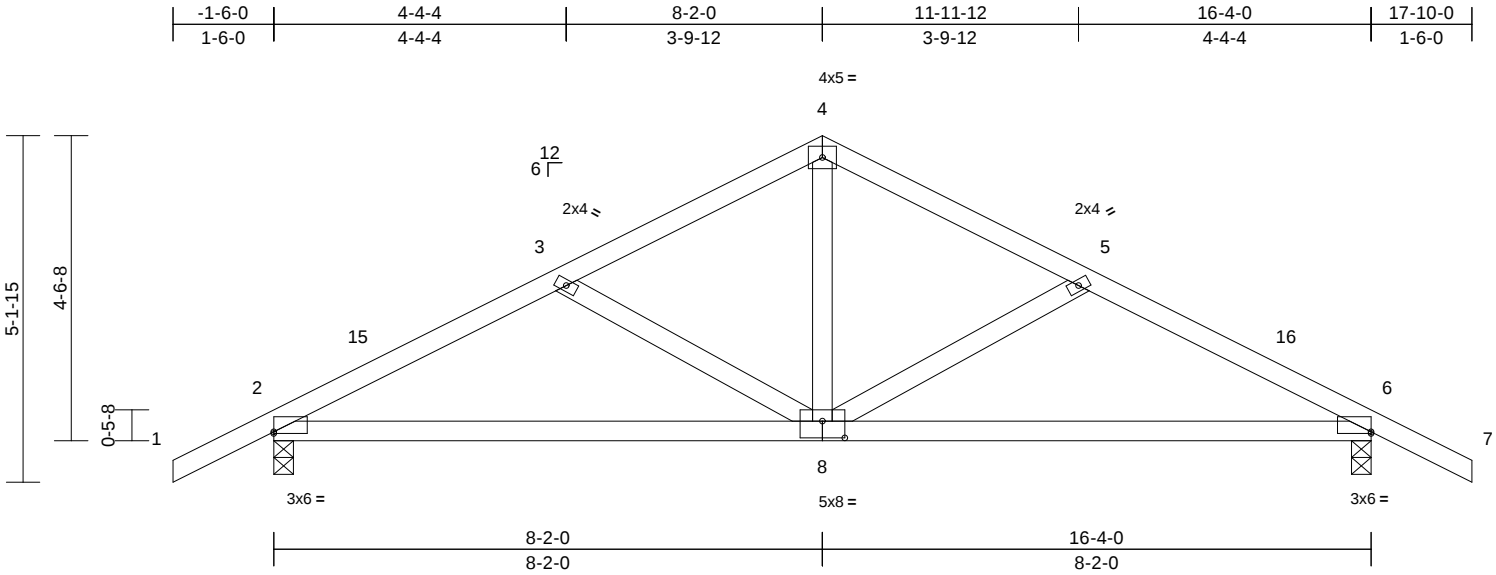
Job	Truss	Truss Type	Qty	Ply	
5481028	T25	Common	2	1	T41410399
Job Reference (optional)					

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

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Scale = 1:34.3

Plate Offsets (X, Y): [2:Edge,0-0-5], [6:Edge,0-0-5], [8:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.09	8-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.15	8-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 75 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.
BOT CHORD Rigid ceiling directly applied or 6-11-9 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=102 (LC 12)
Max Uplift 2=-297 (LC 9), 6=-297 (LC 8)
Max Grav 2=743 (LC 1), 6=743 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-1037/835, 3-4=-783/706,
4-5=-783/706, 5-6=-1037/835, 6-7=0/40
BOT CHORD 2-6=-670/883
WEBS 4-8=-468/466, 5-8=-283/274, 3-8=-283/275

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-2-0, Zone2 8-2-0 to 12-1-10, Zone1 12-1-10 to 17-10-0 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 6 and 297 lb uplift at joint 2.

LOAD CASE(S) Standard

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

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

June 4,2026

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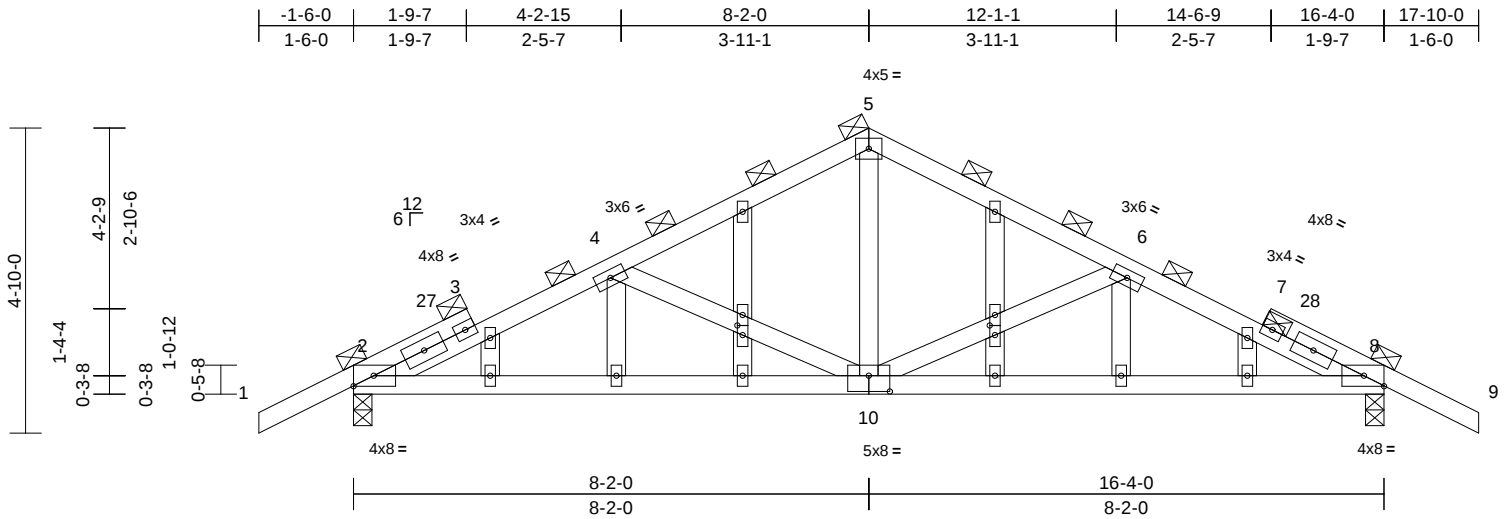
Job	Truss	Truss Type	Qty	Ply	
5481028	T25G	Common Structural Gable	1	1	T41410400
Job Reference (optional)					

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

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Scale = 1:36.5

Plate Offsets (X, Y): [10:0-4-0,0-3-0], [11:0-1-13,0-1-0], [18:0-1-13,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.06	10-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.13	10-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 94 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-3 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=95 (LC 12)
Max Uplift 2=-280 (LC 12), 8=-280 (LC 13)
Max Grav 2=740 (LC 1), 8=740 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/44, 2-4=-1105/518, 4-5=-815/372, 5-6=-815/372, 6-8=-1105/518, 8-9=0/44
BOT CHORD 2-8=-398/1000
WEBS 5-10=-153/487, 6-10=-360/272, 4-10=-360/272

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 8-2-0, Zone2 8-2-0 to 12-3-3, Zone1 12-3-3 to 17-10-0 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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 2 and 280 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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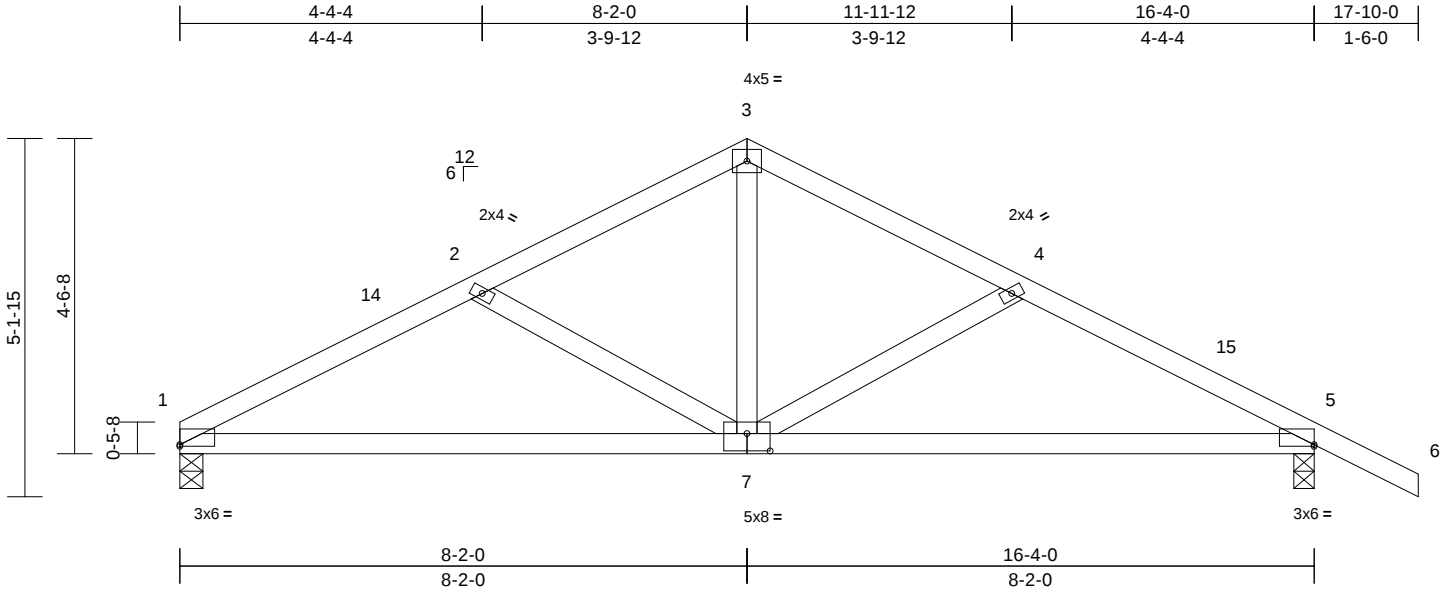
Job	Truss	Truss Type	Qty	Ply	
5481028	T26	Common	1	1	T41410401
Job Reference (optional)					

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Scale = 1:33.2

Plate Offsets (X, Y): [1:Edge,0-0-5], [5:Edge,0-0-5], [7:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.11	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.15	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 73 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.
BOT CHORD Rigid ceiling directly applied or 6-9-3 oc bracing.

REACTIONS

(size) 1=0-4-0, 5=0-3-8
Max Horiz 1=-117 (LC 17)
Max Uplift 1=-274 (LC 9), 5=-298 (LC 8)
Max Grav 1=649 (LC 1), 5=747 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1048/879, 2-3=-794/737, 3-4=-793/724,
4-5=-1047/861, 5-6=0/40
BOT CHORD 1-5=-700/908
WEBS 3-7=-501/470, 4-7=-282/273, 2-7=-300/285

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-0, Zone2 8-2-0 to 12-1-10, Zone1 12-1-10 to 17-10-0 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 1 and 298 lb uplift at joint 5.

LOAD CASE(S) Standard

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Philip J. O'Regan PE No.58126
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Date:

June 4,2026

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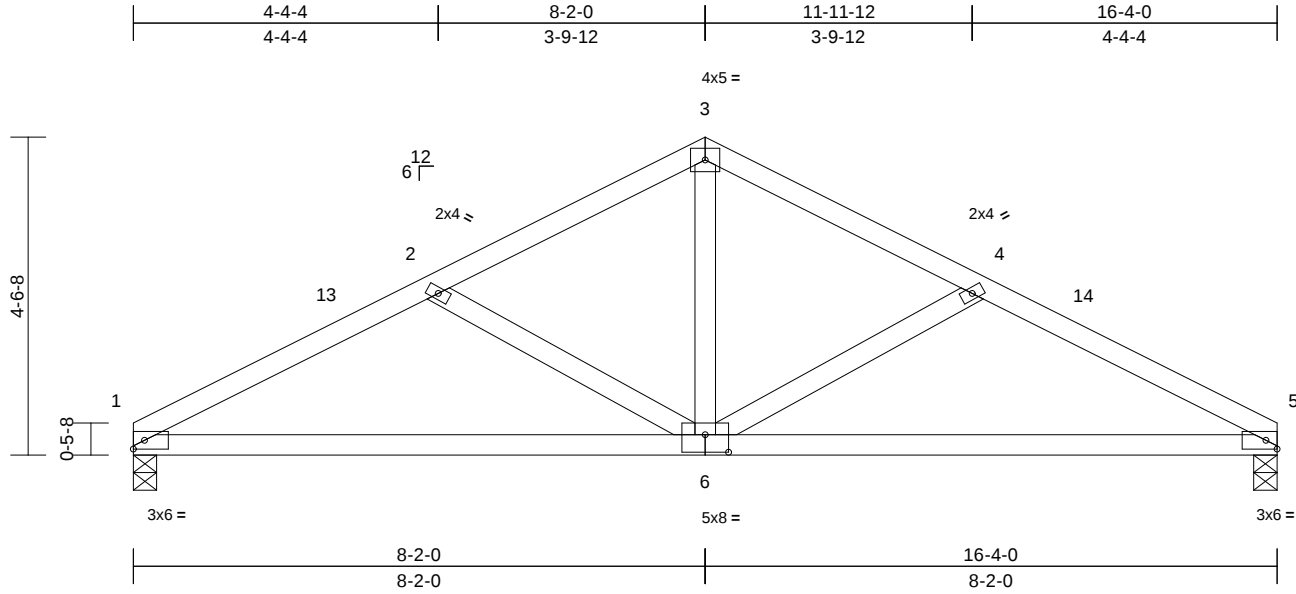
Job	Truss	Truss Type	Qty	Ply	
5481028	T27	Common	1	1	T41410402
Job Reference (optional)					

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

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Scale = 1:32.9

Plate Offsets (X, Y): [6:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.11	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.15	6-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 70 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.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.

REACTIONS

(size) 1=0-4-0, 5=0-4-0
Max Horiz 1=86 (LC 16)
Max Uplift 1=-276 (LC 9), 5=-276 (LC 8)
Max Grav 1=653 (LC 1), 5=653 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1068/885, 2-3=-805/743, 3-4=-805/743,
4-5=-1068/885
BOT CHORD 1-5=-736/916
WEBS 3-6=-509/474, 4-6=-300/283, 2-6=-300/283

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 8-2-0, Zone2 8-2-0 to 12-1-10, Zone1 12-1-10 to 16-4-0 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.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 1 and 276 lb uplift at joint 5.

LOAD CASE(S) Standard

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

June 4,2026

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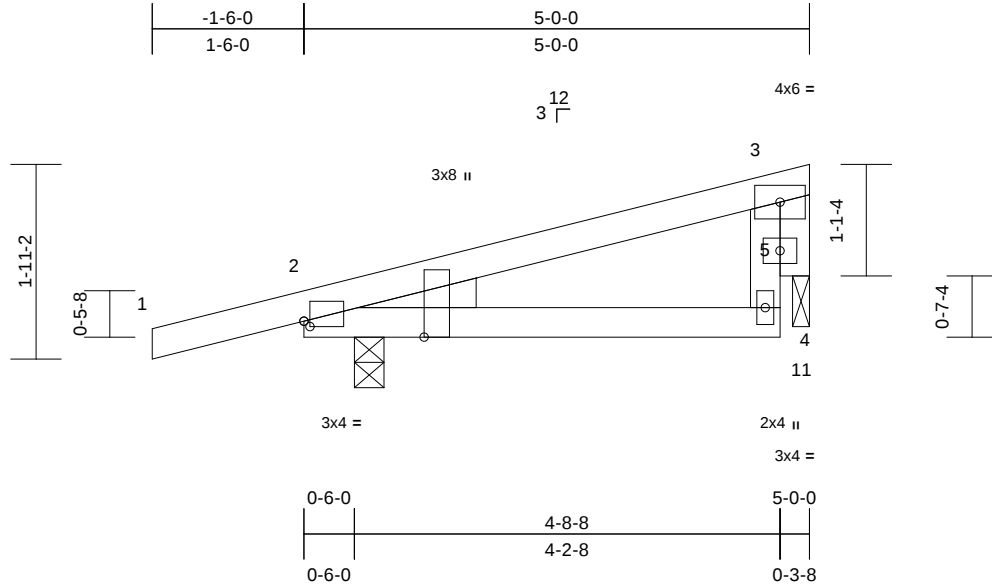
Job	Truss	Truss Type	Qty	Ply	
5481028	T28	Monopitch	13	1	T41410403
Job Reference (optional)					

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

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Scale = 1:22.8											
Plate Offsets (X, Y): [2:0-0-11,0-0-10], [2:0-1-14,Edge]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.01	4-10	>999	240	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.01	4-10	>999	180	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	11	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MR							Weight: 22 lb FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	
(size)	2=0-3-8, 11=0-2-0
Max Horiz	2=80 (LC 8)
Max Uplift	2=-256 (LC 8), 11=-91 (LC 8)
Max Grav	2=333 (LC 1), 11=122 (LC 1)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/22, 2-3=-719/260, 4-5=-80/74, 3-5=-77/68
BOT CHORD	2-4=-254/788
WEBS	3-11=-56/73

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-8-7, Zone1 1-8-7 to 4-6-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 2 and 91 lb uplift at joint 11.

LOAD CASE(S) Standard

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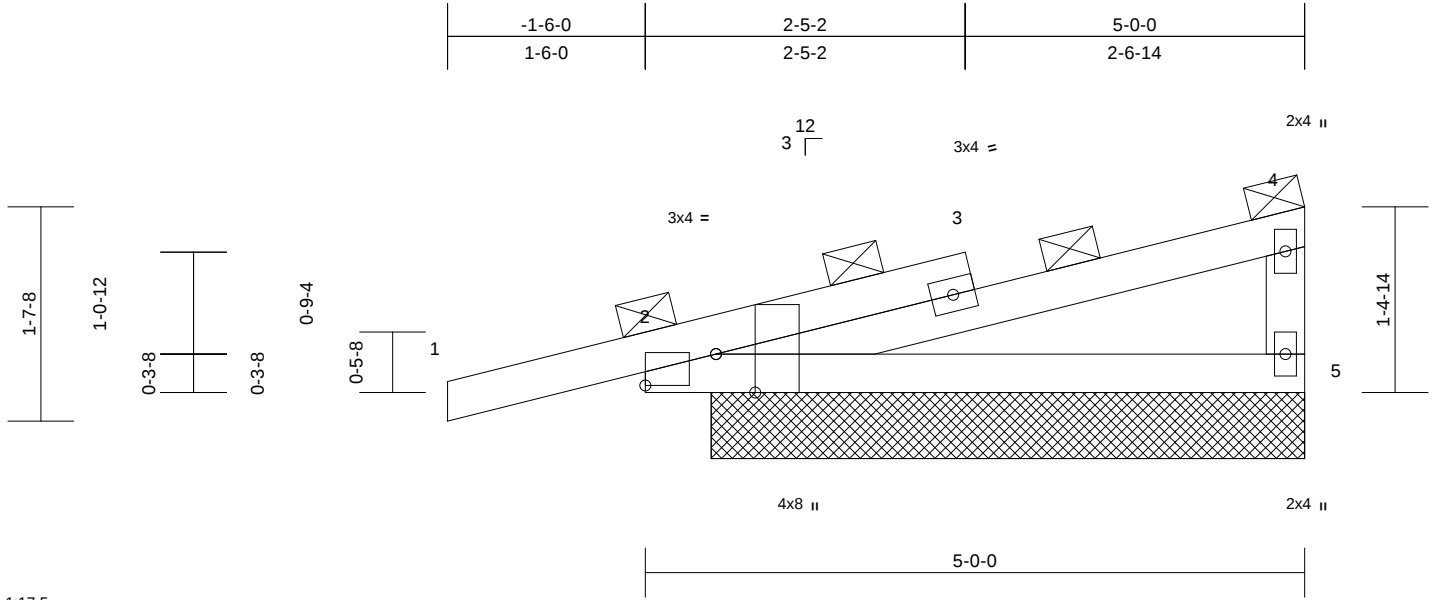
Job	Truss	Truss Type	Qty	Ply	
5481028	T28G	Monopitch Supported Gable	2	1	T41410404
Job Reference (optional)					

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

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Scale = 1:17.5

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:Edge,0-2-14]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 22 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=4-6-0, 5=4-6-0
Max Horiz 2=69 (LC 8)
Max Uplift 2=-196 (LC 8), 5=-66 (LC 12)
Max Grav 2=332 (LC 1), 5=146 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-4=-574/195, 4-5=-114/241
BOT CHORD 2-5=-166/522

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 5, 196 lb uplift at joint 2 and 196 lb uplift at joint 2.
- n/a
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Date:

June 4,2026

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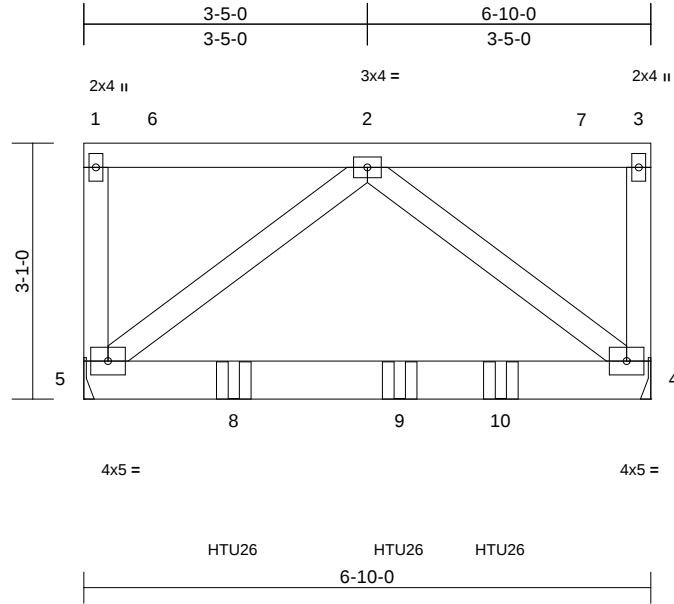
Job	Truss	Truss Type	Qty	Ply	
5481028	TG01	Flat Girder	1	1	T41410405
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:38

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Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.17	4-5	>468	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.23	4-5	>336	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 45 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical
Max Uplift 4=-466 (LC 4), 5=-439 (LC 4)
Max Grav 4=841 (LC 1), 5=797 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-74/50, 1-2=0/0, 2-3=0/0, 3-4=-74/50
BOT CHORD 4-5=-99/147
WEBS 2-5=-191/128, 2-4=-191/128

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 439 lb uplift at joint 5 and 466 lb uplift at joint 4.
- Use Simpson Strong-Tie HTU26 (20-16d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-11 from the left end to 5-0-5 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=-372 (B), 9=-372 (B), 10=-372 (B)

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

June 4,2026

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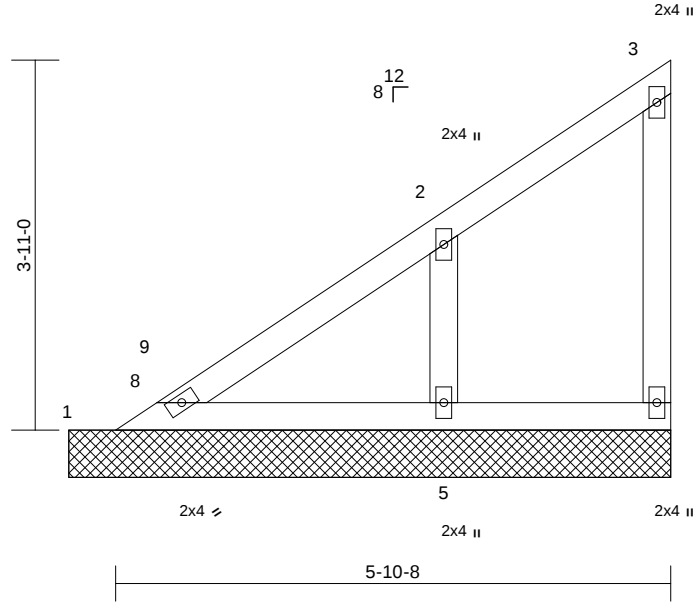
Job	Truss	Truss Type	Qty	Ply	
5481028	V01	Valley	2	1	T41410406
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:38

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Scale = 1:24.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	1=6-4-7, 4=6-4-7, 5=6-4-7
Max Horiz	1=162 (LC 12)
Max Uplift	4=-42 (LC 12), 5=-178 (LC 12)
Max Grav	1=88 (LC 21), 4=52 (LC 19), 5=339 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	3-4=-59/112, 1-2=-309/149, 2-3=-72/30
BOT CHORD	1-5=-152/164, 4-5=0/0
WEBS	2-5=-255/405

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 178 lb uplift at joint 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.

LOAD CASE(S) Standard

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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:

June 4,2026

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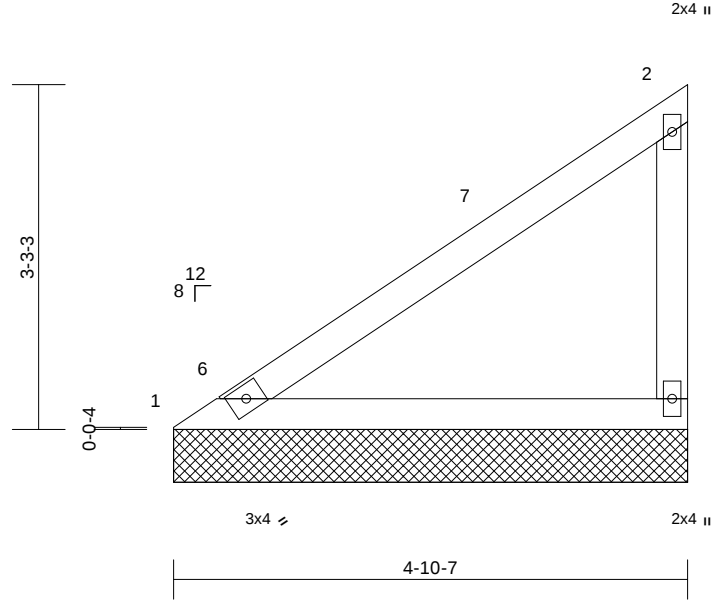
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Job	Truss	Truss Type	Qty	Ply	
5481028	V02	Valley	2	1	T41410407
Job Reference (optional)					

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

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 19 lb	FT = 20%

LUMBER

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

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=189/4-10-7, 3=189/4-10-7
Max Horiz 1=146 (LC 12)
Max Uplift 1=-35 (LC 12), 3=-127 (LC 12)
Max Grav 1=189 (LC 1), 3=209 (LC 19)

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

TOP CHORD 1-6=-266/102
BOT CHORD 1-3=-307/247

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=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-6 to 3-0-6, Zone1 3-0-6 to 4-9-1 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 3 and 35 lb uplift at joint 1.

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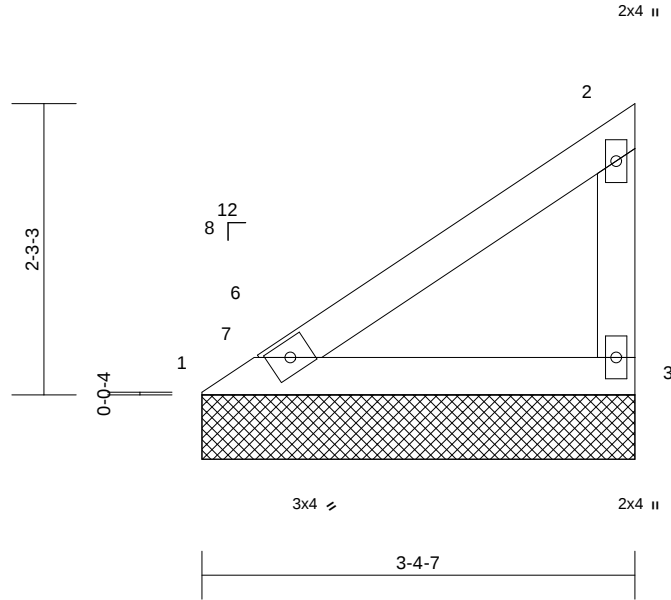
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5481028	V03	Valley	2	1	T41410408
Job Reference (optional)					

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

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Page: 1



Scale = 1:17.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 13 lb FT = 20%

LUMBER

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

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 84 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

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

REACTIONS (size) 1=3-4-7, 3=3-4-7
Max Horiz 1=86 (LC 12)
Max Uplift 1=-9 (LC 12), 3=-84 (LC 12)
Max Grav 1=104 (LC 1), 3=140 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-153/47, 2-3=-89/142
BOT CHORD 1-3=-188/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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Date:

June 4,2026

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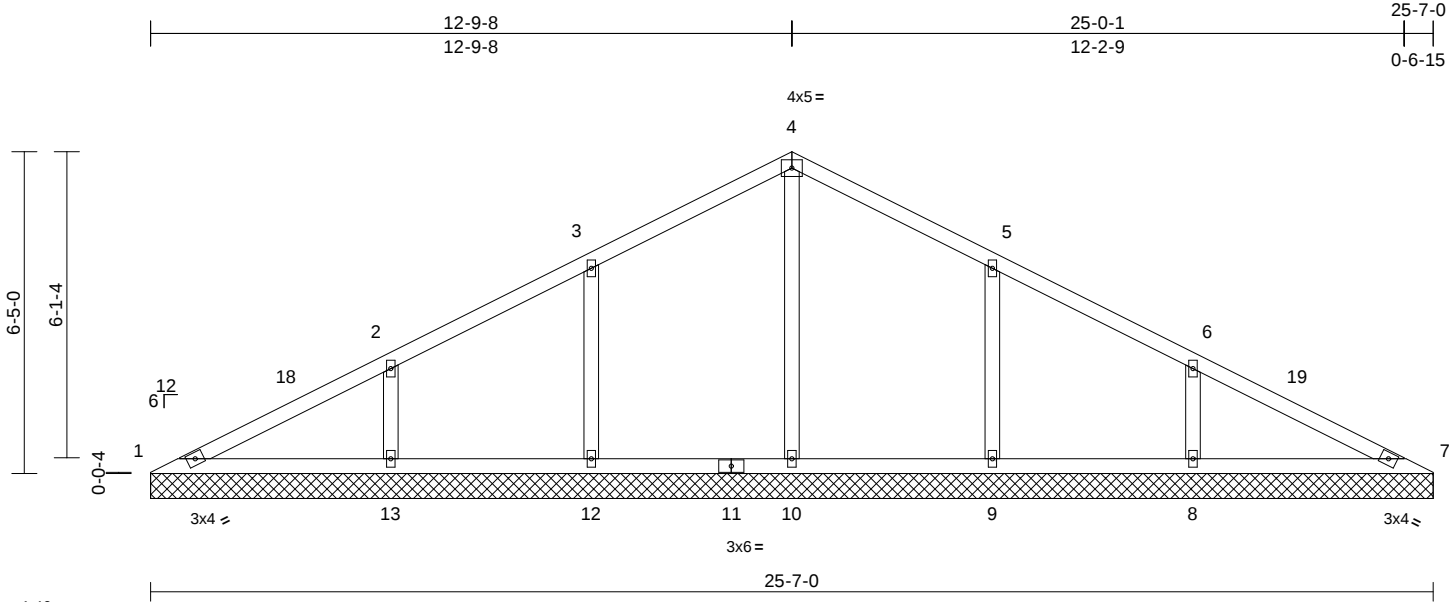
Job	Truss	Truss Type	Qty	Ply	
5481028	V04	Valley	1	1	T41410409
Job Reference (optional)					

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

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Scale = 1:46

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.23	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 104 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.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=25-7-0, 7=25-7-0, 8=25-7-0, 9=25-7-0, 10=25-7-0, 12=25-7-0, 13=25-7-0
Max Horiz	1=132 (LC 16)
Max Uplift	1=-34 (LC 13), 7=-23 (LC 13), 8=-219 (LC 13), 9=-190 (LC 13), 10=-21 (LC 12), 12=-190 (LC 12), 13=-221 (LC 12)
Max Grav	1=125 (LC 25), 7=125 (LC 26), 8=416 (LC 28), 9=360 (LC 28), 10=505 (LC 19), 12=360 (LC 27), 13=416 (LC 27)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-184/204, 2-3=-57/202, 3-4=-24/224, 4-5=-24/209, 5-6=-25/159, 6-7=-184/173
BOT CHORD	1-13=-114/187, 12-13=-114/151, 10-12=-114/151, 9-10=-114/151, 8-9=-114/151, 7-8=-114/160
WEBS	4-10=-316/52, 3-12=-250/222, 2-13=-270/219, 5-9=-250/222, 6-8=-270/219

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 12-10-0, Zone2 12-10-0 to 16-10-0, Zone1 16-10-0 to 25-7-8 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 4-0-0 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 3-06-00 tall by 2-00-00 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 34 lb uplift at joint 1, 23 lb uplift at joint 7, 21 lb uplift at joint 10, 190 lb uplift at joint 12, 221 lb uplift at joint 13, 190 lb uplift at joint 9 and 219 lb uplift at joint 8.

LOAD CASE(S) Standard

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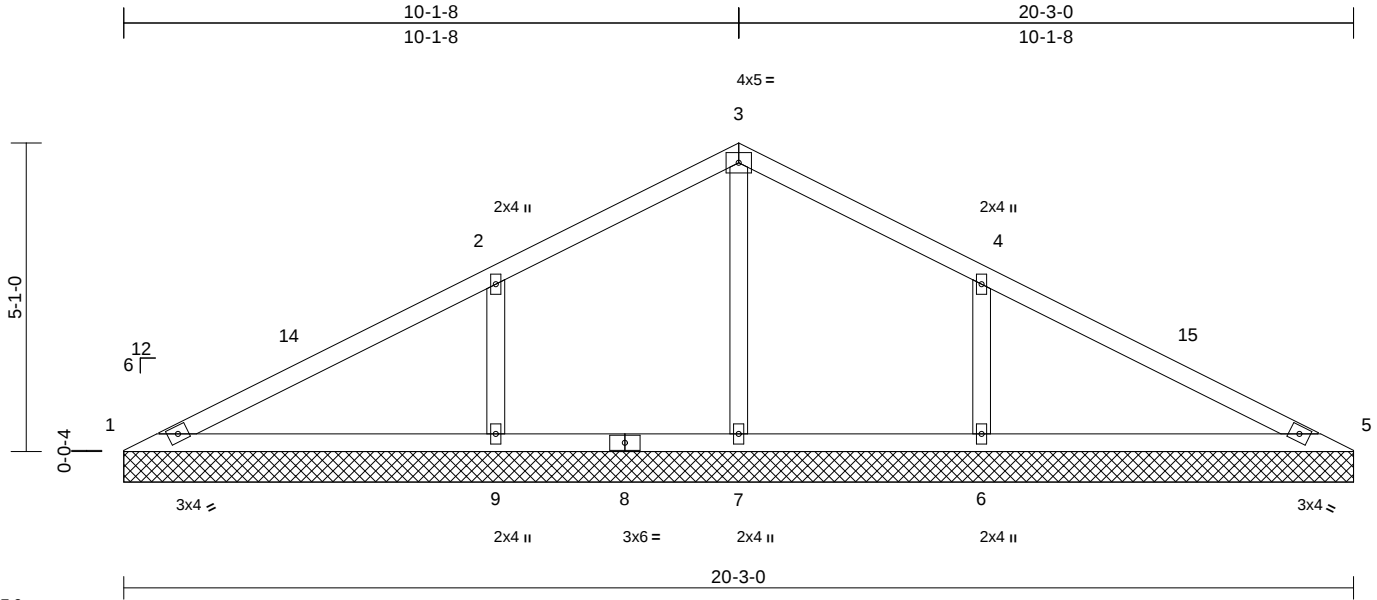
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Job	Truss	Truss Type	Qty	Ply	
5481028	V05	Valley	1	1	T41410410
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:38
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Page: 1



Scale = 1:37.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	9	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 76 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.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size)	1=20-3-0, 5=20-3-0, 6=20-3-0, 7=20-3-0, 9=20-3-0
Max Horiz	1=104 (LC 16)
Max Uplift	1=-11 (LC 13), 5=-26 (LC 13), 6=-288 (LC 13), 7=-77 (LC 12), 9=-289 (LC 12)
Max Grav	1=108 (LC 25), 5=108 (LC 26), 6=503 (LC 26), 7=468 (LC 1), 9=503 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-191/388, 2-3=-46/343, 3-4=-41/343, 4-5=-178/388
BOT CHORD	1-9=-274/216, 7-9=-274/216, 6-7=-274/216, 5-6=-274/216
WEBS	3-7=-441/145, 2-9=-346/282, 4-6=-346/281

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 10-2-0, Zone2 10-2-0 to 14-2-0, Zone1 14-2-0 to 20-3-8 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 26 lb uplift at joint 5, 77 lb uplift at joint 7, 289 lb uplift at joint 9 and 288 lb uplift at joint 6.

LOAD CASE(S)

Standard

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:

June 4,2026

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

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

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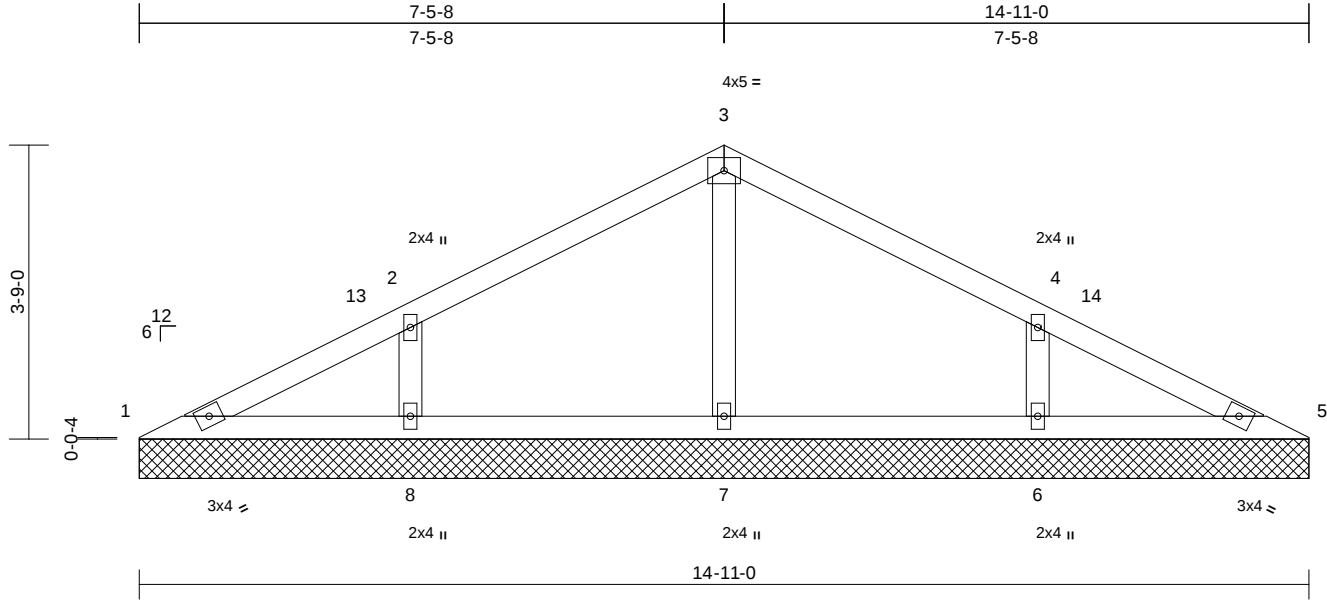
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5481028	V06	Valley	1	1	T41410411
Job Reference (optional)					

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

Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Tue Jun 02 12:13:38
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Scale = 1:29.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 53 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=14-11-0, 5=14-11-0, 6=14-11-0,
7=14-11-0, 8=14-11-0
Max Horiz 1=76 (LC 16)
Max Uplift 1=-29 (LC 13), 5=-26 (LC 13),
6=-200 (LC 13), 7=-48 (LC 12),
8=-201 (LC 12)
Max Grav 1=91 (LC 25), 5=91 (LC 26), 6=349
(LC 26), 7=328 (LC 1), 8=349 (LC 25)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-121/102, 2-3=-29/118, 3-4=-29/104,
4-5=-121/91
BOT CHORD 1-8=-56/108, 7-8=-56/85, 6-7=-56/85,
5-6=-56/102
WEBS 3-7=-253/105, 2-8=-256/251, 4-6=-256/244

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 7-6-0, Zone2 7-6-0 to 11-6-0, Zone1 11-6-0 to 14-11-8 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 26 lb uplift at joint 5, 48 lb uplift at joint 7, 201 lb uplift at joint 8 and 200 lb uplift at joint 6.

LOAD CASE(S) Standard

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:

June 4,2026

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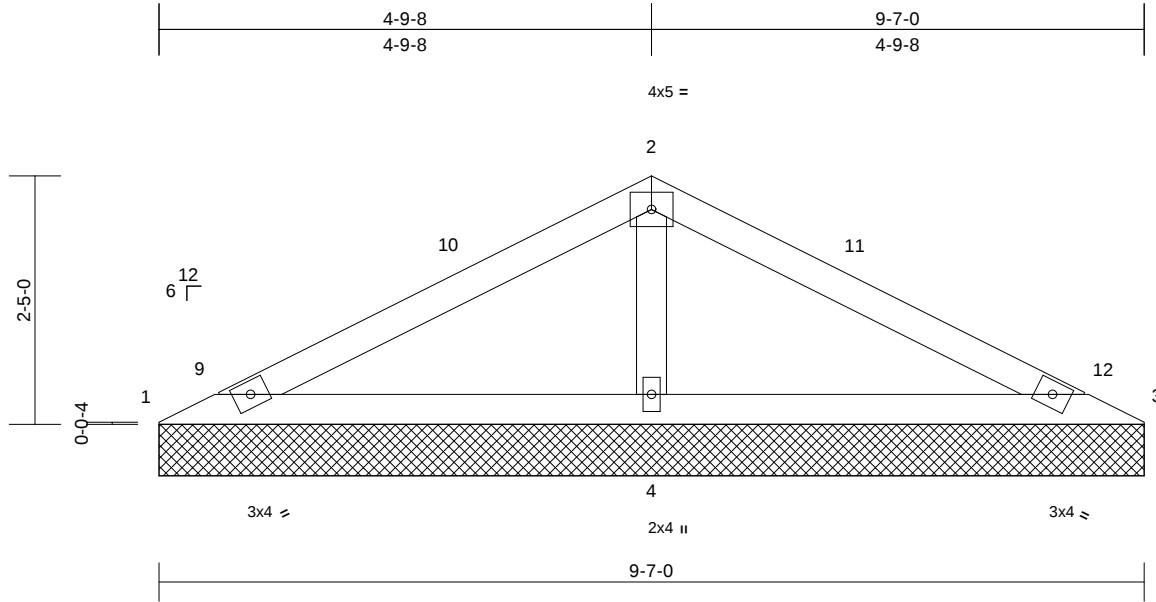
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5481028	V07	Valley	1	1	T41410412
Job Reference (optional)					

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

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 31 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.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=9-7-0, 3=9-7-0, 4=9-7-0
Max Horiz 1=47 (LC 12)
Max Uplift 1=-24 (LC 12), 3=-34 (LC 13),
4=-219 (LC 12)
Max Grav 1=86 (LC 25), 3=86 (LC 26), 4=664
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-259/331, 2-3=-260/331
BOT CHORD 1-4=-246/326, 3-4=-246/326
WEBS 2-4=-496/471

NOTES

- Unbalanced roof live loads have been considered for this design.
- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-8 to 3-0-8, Zone1 3-0-8 to 4-10-0, Zone2 4-10-0 to 9-0-15, Zone1 9-0-15 to 9-7-8 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 34 lb uplift at joint 3 and 219 lb uplift at joint 4.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

June 4,2026

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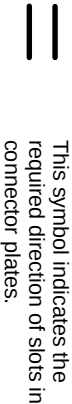
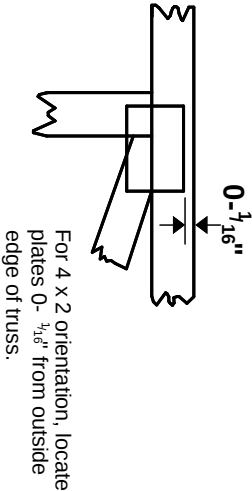
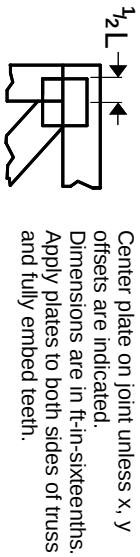
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

PLATE LOCATION AND ORIENTATION



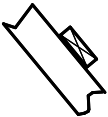
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

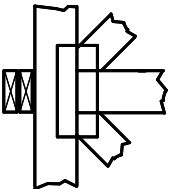
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

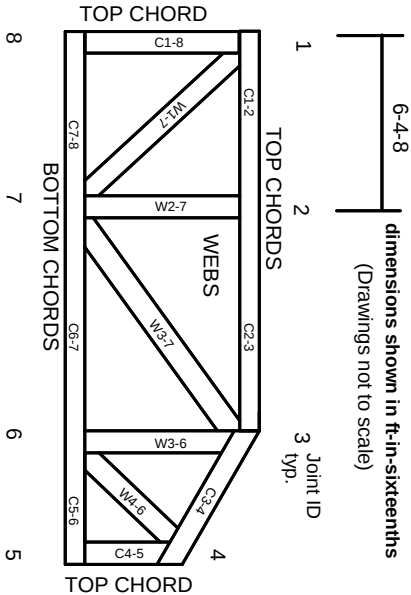
BEARING



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/TPI-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



Product Code Approvals

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

Design General Notes

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

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

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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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.