



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

RE: 5371215 -

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

314.434.1200

Site Information:

Customer Info: BTR HOME BLDRS. - GARY THOMPSON HOMES Project Name: Baker-Helby John Res. Model: Custom

Lot/Block: N/A

Subdivision: N/A

Address: TBD SW Bishop Ave., N/A

City: Lake City

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Design Program: MiTek 20/20 25.4

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 31 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T41148557	PB01	5/12/26	15	T41148571	T08	5/12/26
2	T41148558	PB01G	5/12/26	16	T41148572	T08G	5/12/26
3	T41148559	T01	5/12/26	17	T41148573	T09	5/12/26
4	T41148560	T01G	5/12/26	18	T41148574	T10	5/12/26
5	T41148561	T02	5/12/26	19	T41148575	T11	5/12/26
6	T41148562	T03	5/12/26	20	T41148576	T11G	5/12/26
7	T41148563	T03G	5/12/26	21	T41148577	T12	5/12/26
8	T41148564	T04	5/12/26	22	T41148578	V01	5/12/26
9	T41148565	T04G	5/12/26	23	T41148579	V02	5/12/26
10	T41148566	T05	5/12/26	24	T41148580	V03	5/12/26
11	T41148567	T06	5/12/26	25	T41148581	V04	5/12/26
12	T41148568	T06G	5/12/26	26	T41148582	V05	5/12/26
13	T41148569	T07	5/12/26	27	T41148583	V06	5/12/26
14	T41148570	T07G	5/12/26	28	T41148584	V07	5/12/26

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

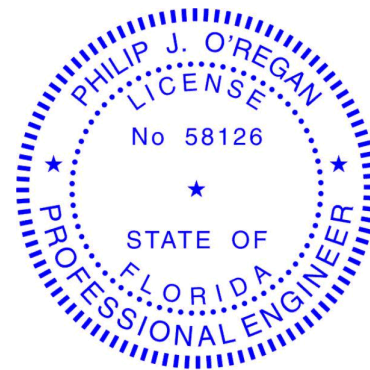
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

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

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



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

May 12,2026

ORegan, Philip

1 of 2



RE: 5371215 -

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

Site Information:

Customer Info: BTR HOME BLDRS. - GARY THOMPSON HOMES Project Name: Baker-Pettyjohn Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD SW Bishop Ave., N/A
City: Lake City State: FL

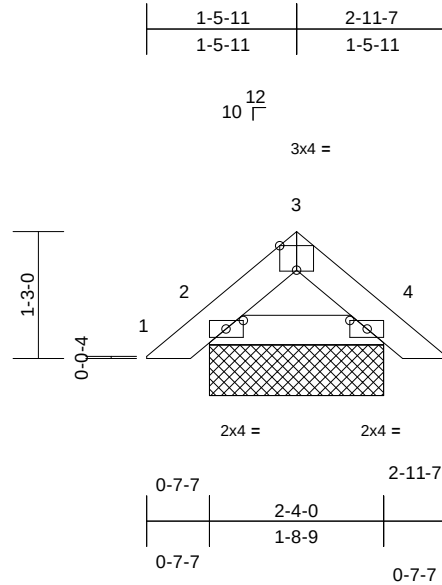
No.	Seal#	Truss Name	Date
29	T41148585	V08	5/12/26
30	T41148586	V09	5/12/26
31	T41148587	V10	5/12/26

Job	Truss	Truss Type	Qty	Ply	
5371215	PB01	Piggyback	20	1	T41148557
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. Mon May 11 12:46:35
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Page: 1



Scale = 1:22.7

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

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	0.02	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: 8 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=1-8-9, 4=1-8-9
Max Horiz 2=-26 (LC 10)
Max Uplift 2=-25 (LC 12), 4=-24 (LC 13)
Max Grav 2=93 (LC 1), 4=99 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-39/34, 3-4=-40/31, 4-5=0/15
BOT CHORD 2-4=-3/44

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 B; 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
- 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) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 2, 24 lb uplift at joint 4, 25 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

May 12,2026

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®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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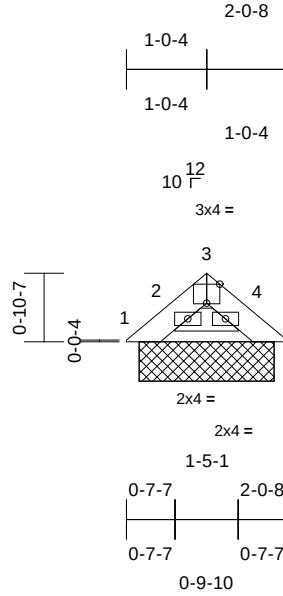
Job	Truss	Truss Type	Qty	Ply	
5371215	PB01G	Piggyback	2	1	T41148558
Job Reference (optional)					

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

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Page: 1

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Scale = 1:29.3

Plate Offsets (X, Y): [3:0-2:0,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	0.02	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 5 lb FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=1-8-9, 2=1-8-9, 5=1-8-9
Max Horiz 1=-17 (LC 8)
Max Uplift 1=-10 (LC 8), 2=-18 (LC 12), 5=-12 (LC 13)
Max Grav 1=9 (LC 11), 2=97 (LC 19), 5=46 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-17/33, 2-3=-23/23, 3-4=-23/17, 4-5=-27/25
BOT CHORD 2-4=-2/24

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 B; 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
- 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) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2, 10 lb uplift at joint 1, 12 lb uplift at joint 5 and 18 lb uplift at joint 2.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

May 12,2026

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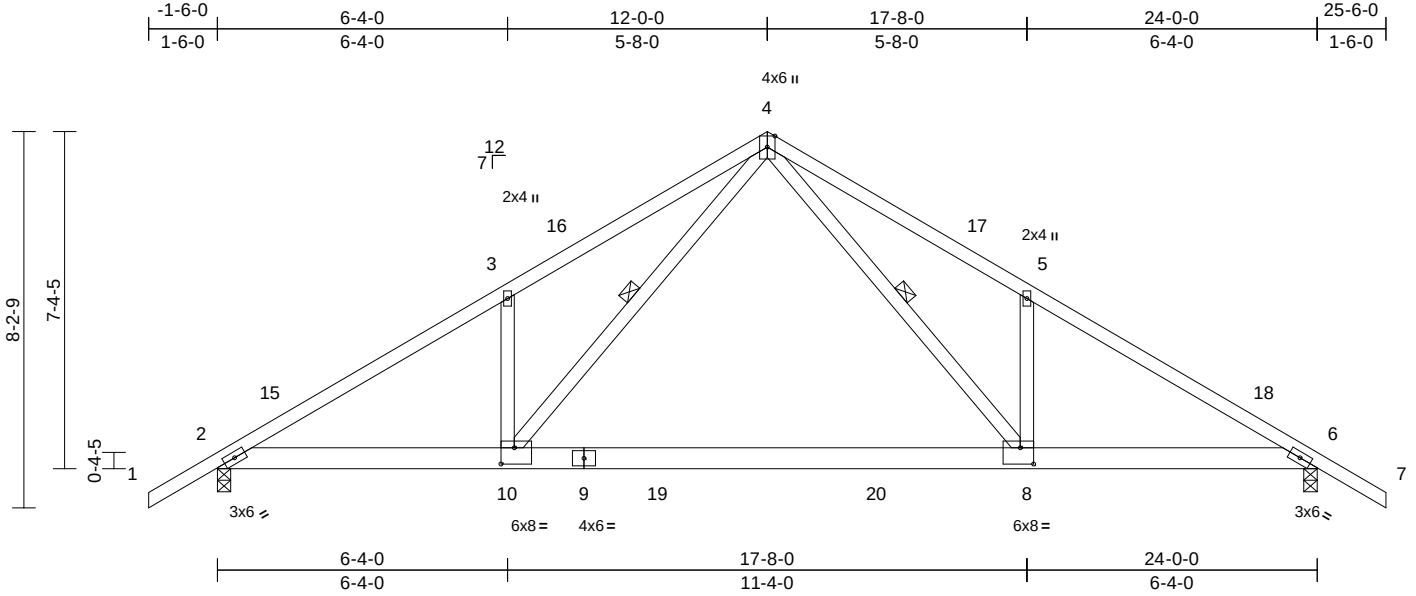
Job	Truss	Truss Type	Qty	Ply	
5371215	T01	Common	10	1	T41148559
Job Reference (optional)					

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. Mon May 11 12:46:37

Page: 1

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Scale = 1:50.3

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

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	0.60	Vert(LL)	0.28	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.52	8-10	>555	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.54	Horz(CT)	0.03	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 2x6 SP 2400F 2.0E or 2x6 SP M 26
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.
WEBS 1 Row at midpt 4-10, 4-8

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=195 (LC 11)
Max Uplift 2=-364 (LC 12), 6=-364 (LC 13)
Max Grav 2=1428 (LC 2), 6=1428 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/45, 2-3=-2504/1052, 3-4=-2506/1161,
4-5=-2506/1161, 5-6=-2504/1052, 6-7=0/45
BOT CHORD 2-10=-813/2118, 8-10=-394/1222,
6-8=-827/2101
WEBS 4-10=-685/1419, 3-10=-374/266,
4-8=-686/1418, 5-8=-374/265

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 zone; 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 2 and 364 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, 2-10=-20, 8-10=-80, 6-8=-20

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:

May 12,2026

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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)

MiTek®

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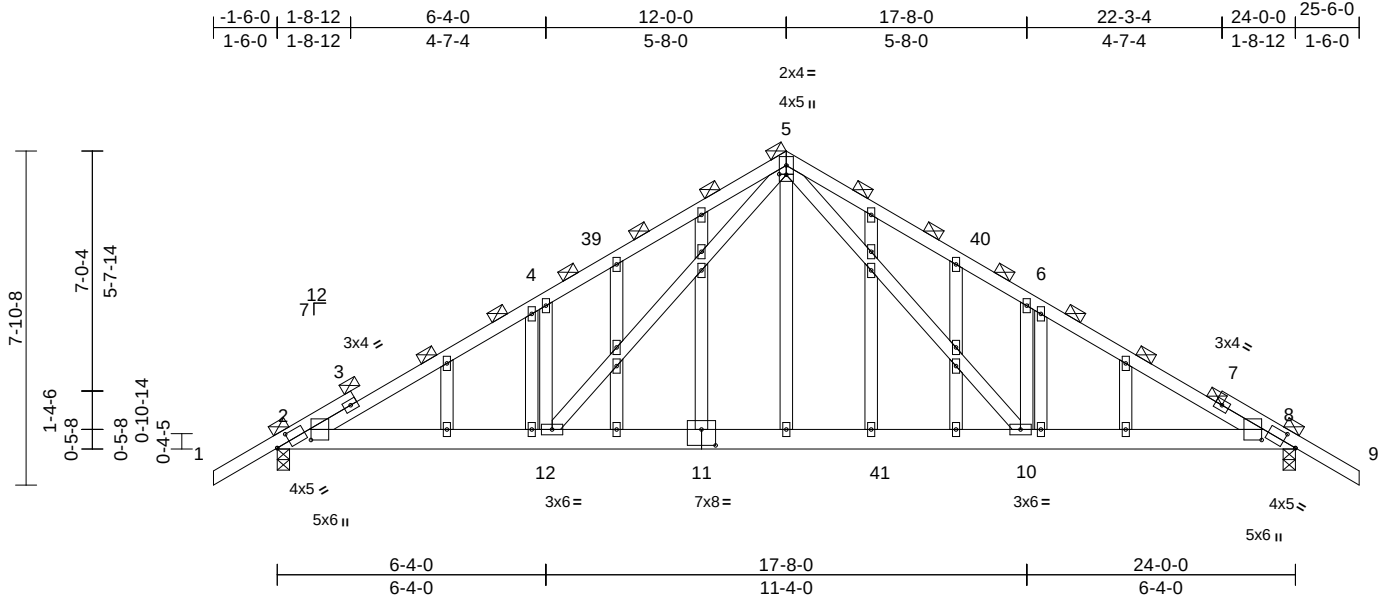
Job	Truss	Truss Type	Qty	Ply	
5371215	T01G	Common Structural Gable	1	1	T41148560
Job Reference (optional)					

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

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Page: 1

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Scale = 1:54.3

Plate Offsets (X, Y): [2:0-3-15,0-2-4], [2:0-2-5,0-9-9], [5:0-2-0,0-0-2], [8:0-3-15,0-2-4], [8:0-2-5,0-9-9], [11:0-4-0,0-4-8]

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	0.42	Vert(LL)	-0.19	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.34	10-12	>843	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 189 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 9-7-6 oc bracing.

REACTIONS

(size) 2=0-3-8, 8=0-3-8
Max Horiz 2=186 (LC 11)
Max Uplift 2=-264 (LC 12), 8=-264 (LC 13)
Max Grav 2=1104 (LC 2), 8=1104 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/50, 2-4=-1837/704, 4-5=-1915/821, 5-6=-1917/821, 6-8=-1838/704, 8-9=0/50
BOT CHORD 2-12=-527/1586, 10-12=-230/904, 8-10=-542/1588
WEBS 5-12=-479/1049, 5-10=-479/1051, 4-12=-412/269, 6-10=-412/269

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-3-15, Zone1 1-3-15 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 25-6-0 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 2 and 264 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 12,2026

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MiTek®

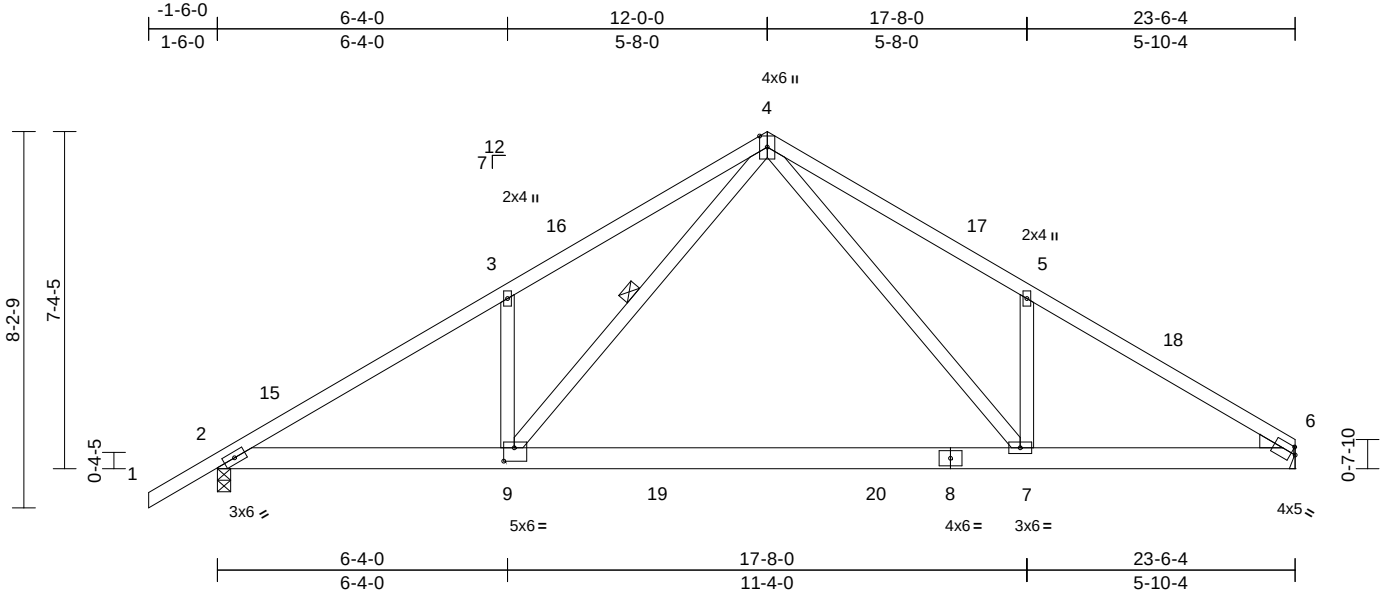
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5371215	T02	Common	1	1	T41148561
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. Mon May 11 12:46:37
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Page: 1



Scale = 1:50.3

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

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	0.68	Vert(LL)	0.30	7-9	>930	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.56	7-9	>508	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 135 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 8-2:2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS	2x4 SP No.3
WEDGE	Right: 2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 7-10-14 oc bracing.
WEBS	1 Row at midpt 4-9
REACTIONS	
(size)	2=0-3-8, 6= Mechanical
Max Horiz	2=187 (LC 9)
Max Uplift	2=-360 (LC 12), 6=-321 (LC 13)
Max Grav	2=1404 (LC 2), 6=1337 (LC 2)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/45, 2-3=-2474/1055, 3-4=-2474/1163, 4-5=-2297/1091, 5-6=-2308/994
BOT CHORD	2-9=-859/2080, 7-9=-413/1164, 6-7=-789/1923
WEBS	4-9=-707/1456, 3-9=-371/265, 4-7=-607/1230, 5-7=-348/260

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 23-6-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 321 lb uplift at joint 6 and 360 lb uplift at joint 2.

LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80, 7-10=-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:

May 12,2026

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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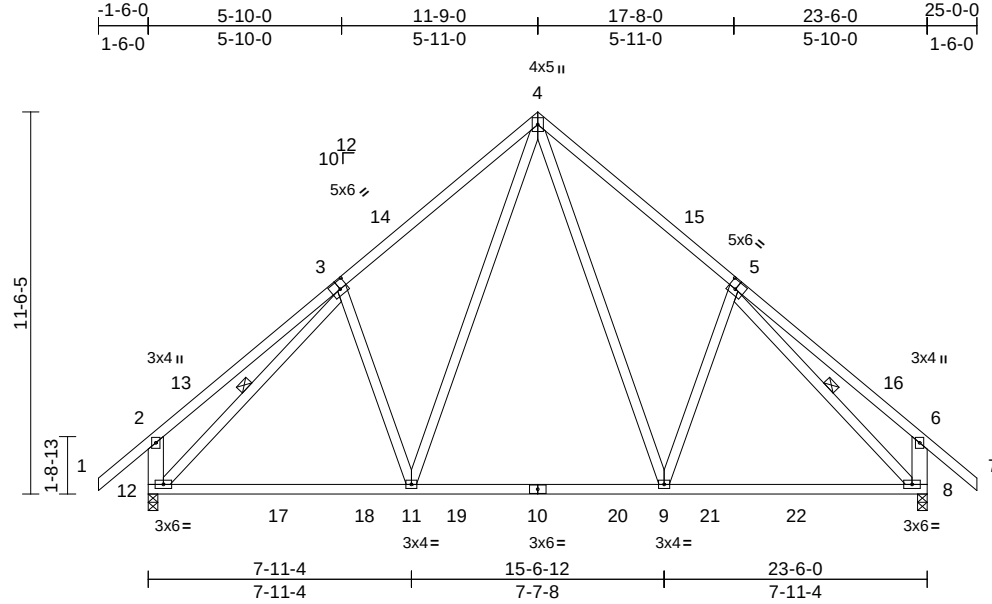
Job	Truss	Truss Type	Qty	Ply	
5371215	T03	Common	7	1	
					Job Reference (optional)

T41148562

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. Mon May 11 12:46:37
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Page: 1



Scale = 1:69.5

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

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	0.41	Vert(LL)	-0.11	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.19	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 170 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 12-2,8-6:2x6 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.
WEBS 1 Row at midpt 3-12, 5-8

REACTIONS (size) 8=0-3-8, 12=0-3-8
Max Horiz 12=-330 (LC 10)
Max Uplift 8=-231 (LC 13), 12=-231 (LC 12)
Max Grav 8=1168 (LC 20), 12=1168 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/66, 2-4=-1044/351, 4-6=-1044/351, 6-7=0/66, 2-12=-388/227, 6-8=-388/227
BOT CHORD 11-12=-180/921, 9-11=-64/667, 8-9=-69/791
WEBS 3-12=-1014/110, 5-8=-1013/110, 4-11=-237/569, 3-11=-205/290, 4-9=-237/569, 5-9=-205/291

- 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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-9-0, Zone2 11-9-0 to 15-11-15, Zone1 15-11-15 to 25-0-0 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 12 and 231 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:

May 12,2026

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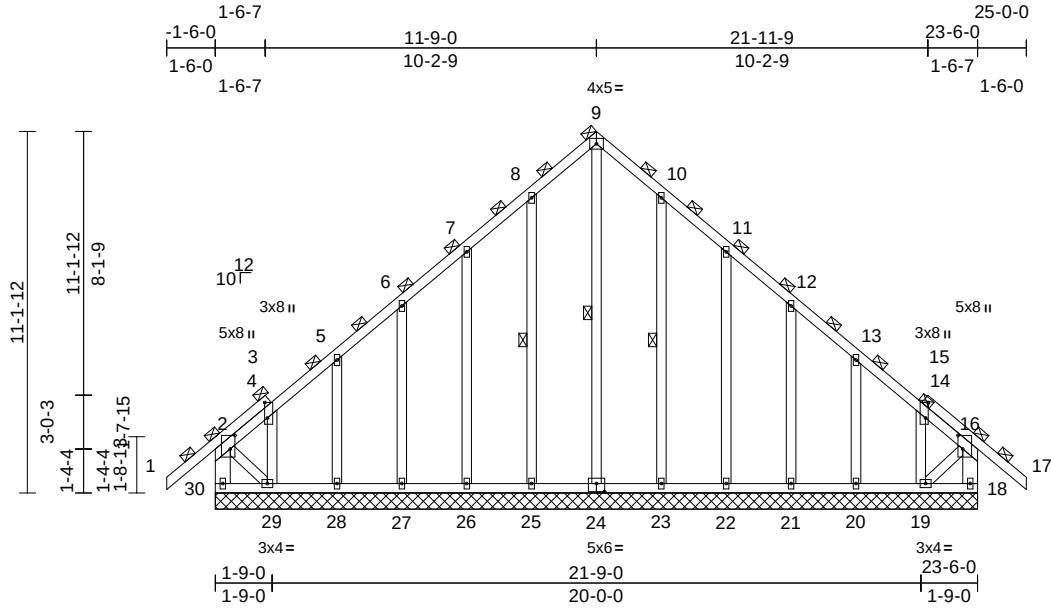
Job	Truss	Truss Type	Qty	Ply	
5371215	T03G	Common Supported Gable	1	1	T41148563
Job Reference (optional)					

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. Mon May 11 12:46:37

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Scale = 1:71

Plate Offsets (X, Y): [2:0-5-0,0-1-12], [3:0-5-11,0-1-0], [15:0-5-11,0-1-0], [16:0-5-0,0-1-12], [24:0-3-0,0-3-0]

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	0.21	Vert(LL)	n/a	-	n/a	999	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	18	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 2x4 SP No.2
WEBS 2x6 SP No.2 *Except* 2-29,19-16:2x4 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: 29-30,18-19.
WEBS 1 Row at midpt 9-24, 8-25, 10-23

REACTIONS (size)
18=23-6-0, 19=23-6-0, 20=23-6-0, 21=23-6-0, 22=23-6-0, 23=23-6-0, 24=23-6-0, 25=23-6-0, 26=23-6-0, 27=23-6-0, 28=23-6-0, 29=23-6-0, 30=23-6-0
Max Horiz 30=-314 (LC 10)
Max Uplift 18=-83 (LC 9), 19=-244 (LC 13), 20=-99 (LC 13), 21=-102 (LC 13), 22=-107 (LC 13), 23=-95 (LC 13), 25=-97 (LC 12), 26=-106 (LC 12), 27=-102 (LC 12), 28=-98 (LC 12), 29=-265 (LC 12), 30=-171 (LC 8)
Max Grav 18=288 (LC 22), 19=192 (LC 11), 20=176 (LC 20), 21=175 (LC 20), 22=175 (LC 20), 23=181 (LC 20), 24=207 (LC 22), 25=185 (LC 19), 26=174 (LC 19), 27=176 (LC 19), 28=174 (LC 19), 29=241 (LC 10), 30=335 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
2-30=-319/171, 1-2=0/61, 2-3=-232/172, 3-5=-185/167, 5-6=-150/138, 6-7=-126/122, 7-8=-107/163, 8-9=-129/206, 9-10=-129/206, 10-11=-92/142, 11-12=-68/81, 12-13=-88/64, 13-15=-154/94, 15-16=-201/100, 16-17=0/61, 16-18=-273/86
BOT CHORD
29-30=-291/275, 28-29=-137/215, 27-28=-137/215, 26-27=-137/215, 25-26=-137/215, 23-25=-137/215, 22-23=-137/215, 21-22=-137/215, 20-21=-137/215, 19-20=-137/215, 18-19=-35/47
WEBS
9-24=-201/71, 8-25=-145/109, 7-26=-134/118, 6-27=-136/114, 5-28=-135/111, 3-29=-85/69, 10-23=-141/107, 11-22=-135/119, 12-21=-135/114, 13-20=-136/112, 15-19=-84/68, 2-29=-209/296, 16-19=-143/269

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 171 lb uplift at joint 30, 83 lb uplift at joint 18, 97 lb uplift at joint 25, 106 lb uplift at joint 26, 102 lb uplift at joint 27, 98 lb uplift at joint 28, 265 lb uplift at joint 29, 95 lb uplift at joint 23, 107 lb uplift at joint 22, 102 lb uplift at joint 21, 99 lb uplift at joint 20 and 244 lb uplift at joint 19.
- 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:

May 12,2026

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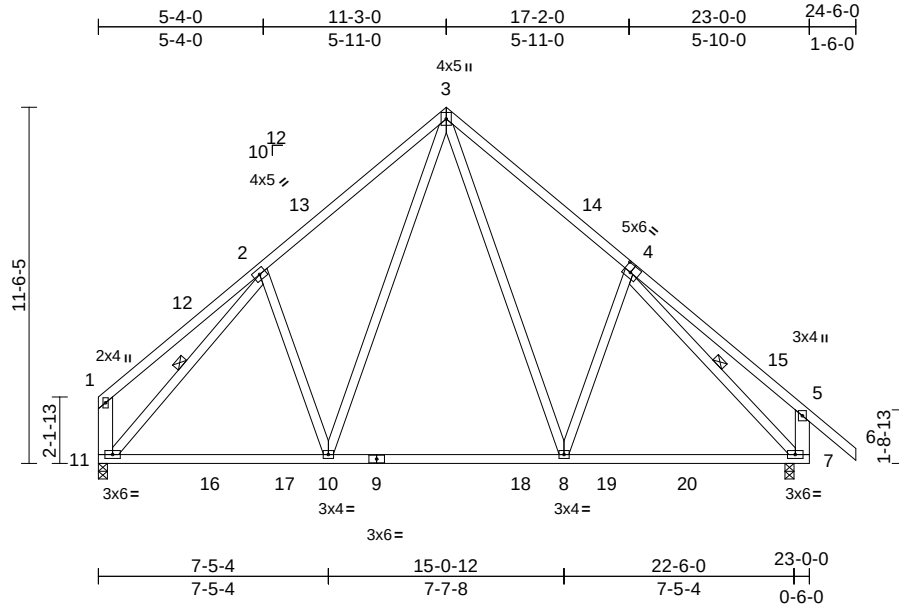
Job	Truss	Truss Type	Qty	Ply	
5371215	T04	Common	1	1	T41148564
Job Reference (optional)					

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. Mon May 11 12:46:37

Page: 1

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Scale = 1:74.5

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

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	0.41	Vert(LL)	-0.10	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.19	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 166 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 11-1,7-5:2x6 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.
WEBS 1 Row at midpt 2-11, 4-7

REACTIONS (size) 7=0-3-8, 11=0-3-8
Max Horiz 11=-324 (LC 8)
Max Uplift 7=-227 (LC 13), 11=-182 (LC 12)
Max Grav 7=1147 (LC 20), 11=1043 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-214/119, 2-3=-990/335, 3-5=-1018/345, 5-6=0/66, 1-11=-217/112, 5-7=-387/227
BOT CHORD 10-11=-173/864, 8-10=-65/645, 7-8=-64/773
WEBS 2-11=-1016/151, 2-10=-162/272, 3-10=-220/507, 3-8=-238/577, 4-8=-209/291, 4-7=-988/102

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 to 11-3-0, Zone2 11-3-0 to 15-5-15, Zone1 15-5-15 to 24-6-0 zone; cantilever right exposed ; 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) 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 182 lb uplift at joint 11 and 227 lb uplift at joint 7.

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:

May 12,2026

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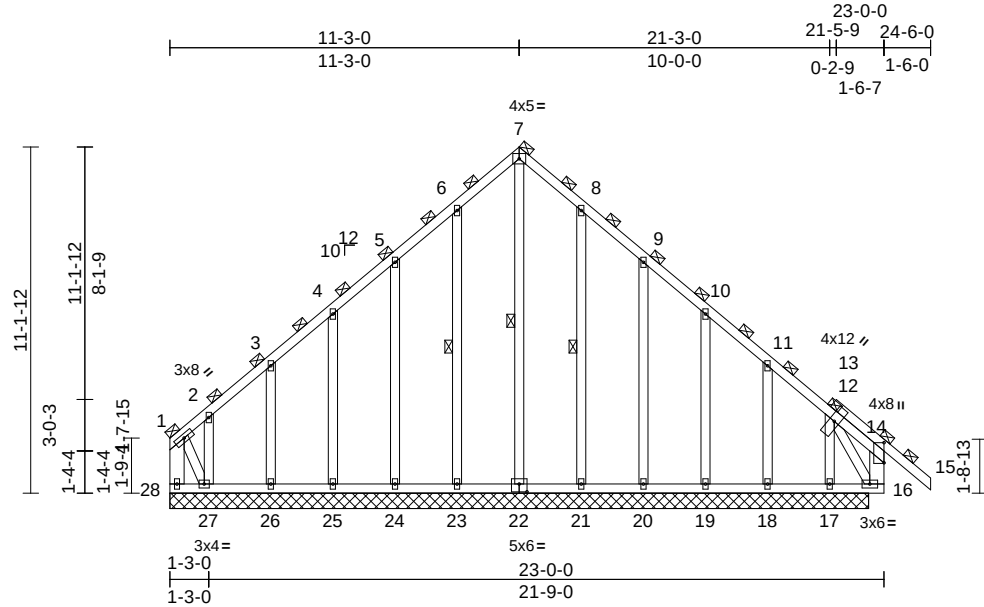
Job	Truss	Truss Type	Qty	Ply	
5371215	T04G	Common Supported Gable	1	1	T41148565
Job Reference (optional)					

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. Mon May 11 12:46:38

Page: 1

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Scale = 1:74.2

Plate Offsets (X, Y): [14'-0"-7'-13", Edge], [22'-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	0.21	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	16	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 196 lb FT = 20%											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 16-13,1-27:2x4 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 7-22, 6-23, 8-21

REACTIONS (size)	16=22-6-0, 17=22-6-0, 18=22-6-0, 19=22-6-0, 20=22-6-0, 21=22-6-0, 22=22-6-0, 23=22-6-0, 24=22-6-0, 25=22-6-0, 26=22-6-0, 27=22-6-0, 28=22-6-0
	Max Horiz 28=307 (LC 8)
	Max Uplift 16=95 (LC 9), 17=232 (LC 13), 18=99 (LC 13), 19=101 (LC 13), 20=108 (LC 13), 21=93 (LC 13), 23=95 (LC 12), 24=107 (LC 12), 25=100 (LC 12), 26=106 (LC 12), 27=367 (LC 12), 28=355 (LC 10)
	Max Grav 16=282 (LC 22), 17=192 (LC 11), 18=176 (LC 20), 19=175 (LC 20), 20=176 (LC 20), 21=181 (LC 20), 22=231 (LC 13), 23=184 (LC 19), 24=174 (LC 19), 25=174 (LC 19), 26=181 (LC 19), 27=365 (LC 10), 28=432 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-28=-414/346, 14-16=-158/122, 7-8=-144/234, 8-9=-107/170, 9-10=-76/104, 10-11=-94/68, 11-13=-134/92, 13-14=-29/62, 14-15=0/61, 1-2=-233/187, 2-3=-179/165, 3-4=-151/133, 4-5=-129/134, 5-6=-112/184, 6-7=-144/234

BOT CHORD	
27-28=-276/286, 26-27=-135/198, 25-26=-135/198, 24-25=-135/198, 23-24=-135/198, 21-23=-135/198, 20-21=-135/198, 19-20=-135/198, 18-19=-135/198, 17-18=-135/198, 16-17=-133/195	
WEBS	
7-22=-235/89, 6-23=-144/107, 5-24=-134/119, 4-25=-134/112, 3-26=-141/119, 2-27=-114/97, 8-21=-141/105, 9-20=-136/120, 10-19=-135/113, 11-18=-137/114, 13-17=-145/229, 13-16=-308/171, 1-27=-285/330	

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (I) MT20 unless otherwise indicated.
- 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 355 lb uplift at joint 28, 95 lb uplift at joint 16, 95 lb uplift at joint 23, 107 lb uplift at joint 24, 100 lb uplift at joint 25, 106 lb uplift at joint 26, 367 lb uplift at joint 27, 93 lb uplift at joint 21, 108 lb uplift at joint 20, 101 lb uplift at joint 19, 99 lb uplift at joint 18 and 232 lb uplift at joint 17.
- 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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Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 12,2026

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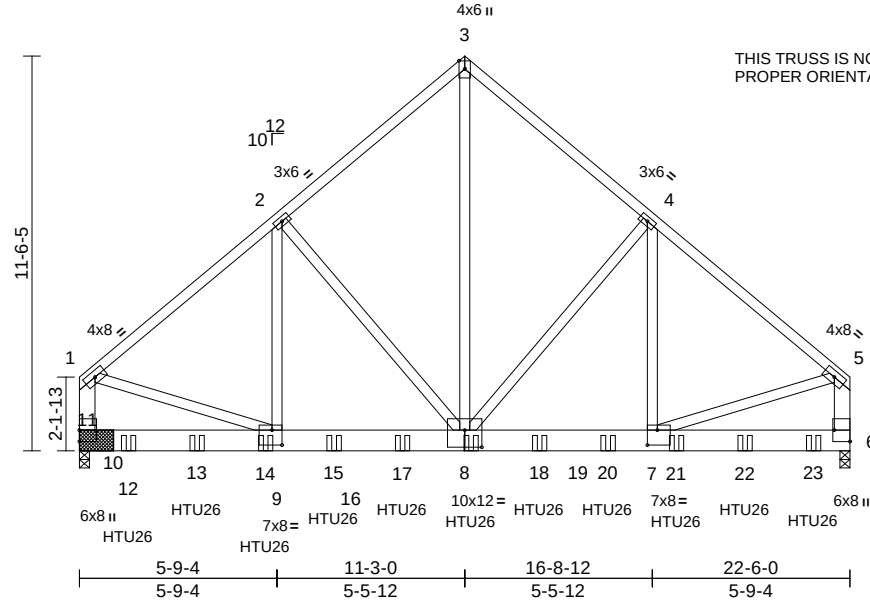
Job	Truss	Truss Type	Qty	Ply	
5371215	T05	Common Girder	1	2	T41148566
Job Reference (optional)					

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

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Scale = 1:67.3

Plate Offsets (X, Y): [6:Edge,0-5-8], [7:0-3-8,0-5-4], [8:0-6-0,0-6-0], [9:0-3-8,0-5-4]

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	0.52	Vert(LL)	-0.07	8-9	>999	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.15	8-9	>999	180	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 401 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* 8-3:2x4 SP No.2,
11-1,6-5:2x6 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) 6=0-3-8, (req. 0-3-14), 11=(0-3-8 +
bearing block), (req. 0-3-13)
Max Horiz 11=-294 (LC 25)
Max Uplift 6=-1483 (LC 9), 11=-1444 (LC 8)
Max Grav 6=6585 (LC 1), 11=6409 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-5797/1342, 2-3=-4512/1154,
3-4=-4512/1154, 4-5=-5769/1335,
1-11=-5128/1174, 5-6=-5101/1167
BOT CHORD 9-11=-364/583, 7-9=-1038/4374,
6-7=-134/421
WEBS 3-8=-1328/5320, 4-8=-1531/528,
4-7=-391/1681, 2-8=-1564/536,
2-9=-400/1724, 1-9=-899/4173,
5-7=-893/4145

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3")
nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc,
2x6 - 2 rows staggered 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.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 11
attached to each face with 4 rows of 10d (0.131"x3")
nails spaced 3" o.c. 16 Total fasteners per block. Bearing
is assumed to be SP No.2.
- 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 B; 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.
- WARNING: Required bearing size at joint(s) 6 greater
than input bearing size.
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 1483 lb uplift at
joint 6 and 1444 lb uplift at joint 11.
- 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 1-5-4 from the left
end to 21-5-4 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, 3-5=-60, 6-11=-20
Concentrated Loads (lb)
Vert: 8=-1021 (F), 12=-1021 (F), 13=-1021 (F),
14=-1021 (F), 15=-1021 (F), 17=-1021 (F), 18=-1021
(F), 20=-1021 (F), 21=-1021 (F), 22=-1021 (F),
23=-1023 (F)

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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:

May 12,2026

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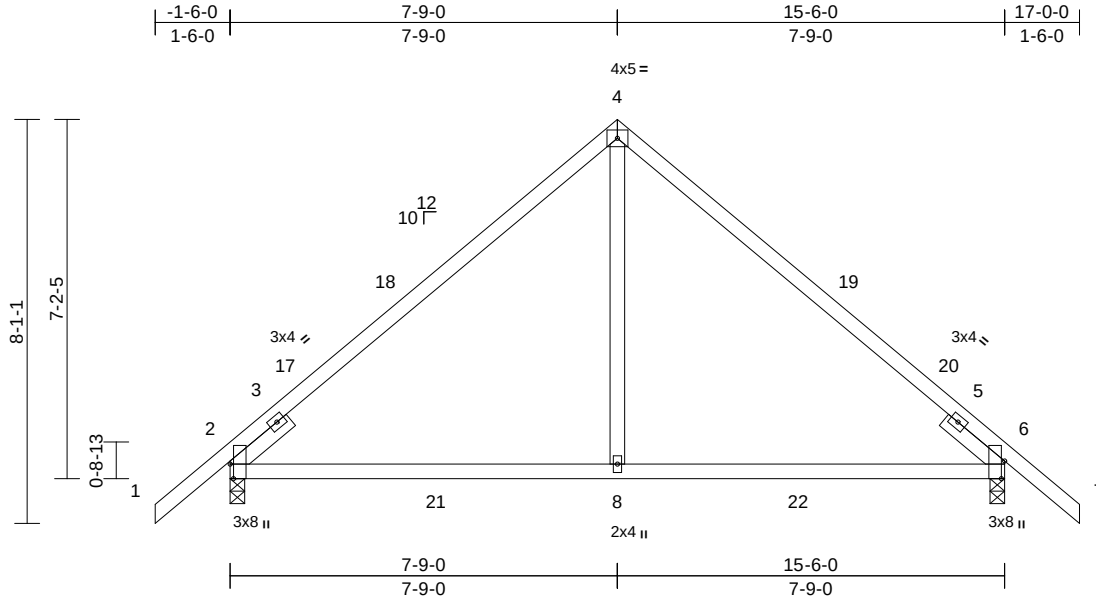
Job	Truss	Truss Type	Qty	Ply	
5371215	T06	Common	1	1	T41148567
Job Reference (optional)					

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

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Scale = 1:46.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [6:0-4-4,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	0.72	Vert(LL)	0.15	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.21	8-11	>904	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 74 lb	FT = 20%

LUMBER

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

- 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 169 lb uplift at joint 2 and 169 lb uplift at joint 6.

BRACING

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

LOAD CASE(S)

Standard

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=-190 (LC 10)
Max Uplift	2=-169 (LC 12), 6=-169 (LC 13)
Max Grav	2=816 (LC 19), 6=816 (LC 20)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/58, 2-4=-769/234, 4-6=-769/234, 6-7=0/58
BOT CHORD	2-8=-324/559, 6-8=-217/559
WEBS	4-8=-17/472

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-9-0, Zone2 7-9-0 to 11-11-15, Zone1 11-11-15 to 17-0-0 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.

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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:

May 12,2026

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Chesterfield, MO 63017
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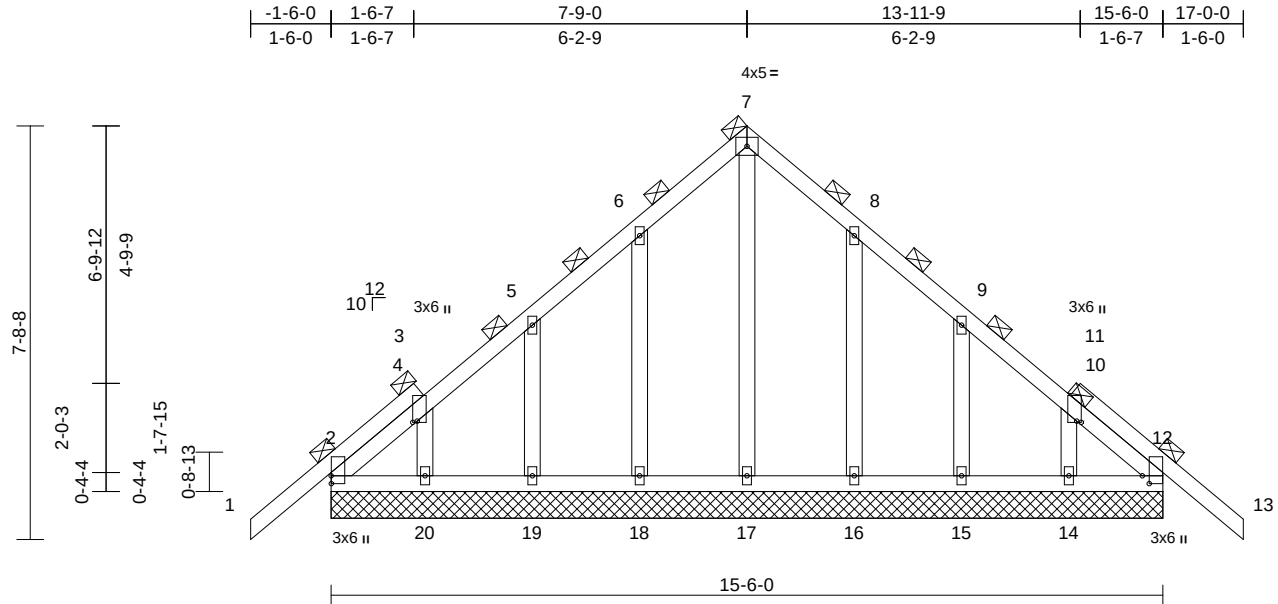
Job	Truss	Truss Type	Qty	Ply	
5371215	T06G	Common Supported Gable	1	1	T41148568
Job Reference (optional)					

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

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Scale = 1:42.9

Plate Offsets (X, Y): [2:Edge,0-0-1], [3:0-0-5,0-1-0], [11:0-0-5,0-1-0], [12:Edge,0-4-9]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 101 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=15-6-0, 12=15-6-0, 14=15-6-0, 15=15-6-0, 16=15-6-0, 17=15-6-0, 18=15-6-0, 19=15-6-0, 20=15-6-0
Max Horiz 2=-181 (LC 10)
Max Uplift 2=-55 (LC 8), 12=-25 (LC 9), 14=-91 (LC 13), 15=-98 (LC 13), 16=-104 (LC 13), 18=-106 (LC 12), 19=-95 (LC 12), 20=-95 (LC 12)
Max Grav 2=189 (LC 1), 12=189 (LC 1), 14=141 (LC 20), 15=176 (LC 20), 16=183 (LC 20), 17=182 (LC 22), 18=185 (LC 19), 19=173 (LC 19), 20=145 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-141/118, 3-5=-103/100, 5-6=-85/96, 6-7=-101/168, 7-8=-101/168, 8-9=-54/74, 9-11=-63/62, 11-12=-109/70, 12-13=0/58
BOT CHORD 2-20=-68/180, 19-20=-68/180, 18-19=-68/180, 17-18=-68/180, 16-17=-68/180, 15-16=-68/180, 14-15=-68/180, 12-14=-68/180
WEBS 7-17=-142/41, 6-18=-146/130, 5-19=-132/132, 3-20=-110/106, 8-16=-144/130, 9-15=-134/132, 11-14=-110/106

NOTES

1) 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 B; 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 55 lb uplift at joint 2, 25 lb uplift at joint 12, 106 lb uplift at joint 18, 95 lb uplift at joint 19, 95 lb uplift at joint 20, 104 lb uplift at joint 16, 98 lb uplift at joint 15, 91 lb uplift at joint 14, 55 lb uplift at joint 2 and 25 lb uplift at joint 12.
- 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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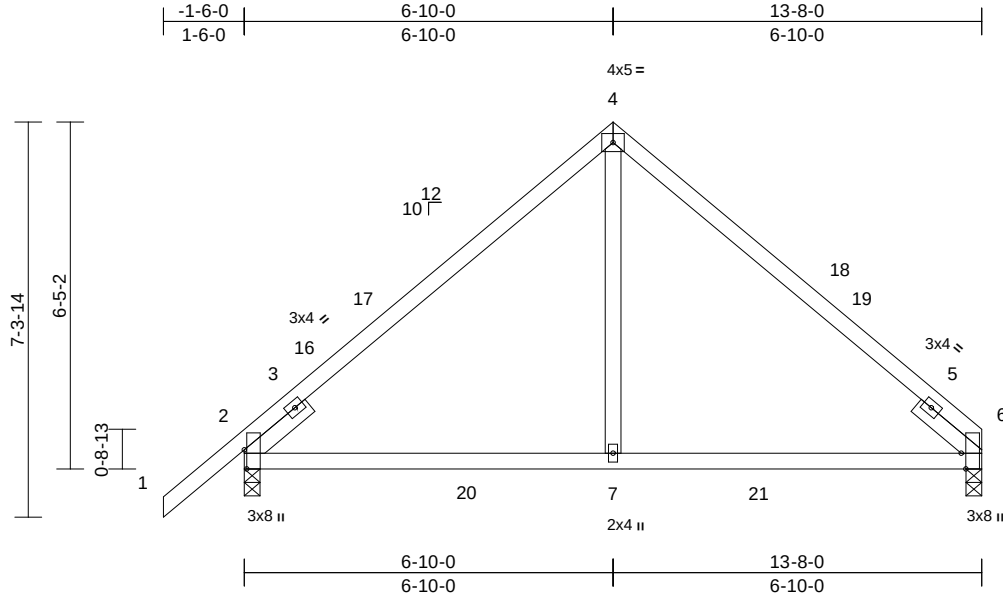
Job	Truss	Truss Type	Qty	Ply	
5371215	T07	Common	5	1	T41148569
Job Reference (optional)					

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

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Scale = 1:42.7

Plate Offsets (X, Y): [2:0-4-4,Edge], [6:0-3-8,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	0.54	Vert(LL)	0.11	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.13	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 63 lb	FT = 20%

LUMBER

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

- 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 113 lb uplift at joint 6 and 154 lb uplift at joint 2.

BRACING

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

LOAD CASE(S)

Standard

REACTIONS

(size)	2=0-3-8, 6=0-3-8
Max Horiz	2=161 (LC 11)
Max Uplift	2=-154 (LC 12), 6=-113 (LC 13)
Max Grav	2=701 (LC 2), 6=617 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/58, 2-4=-629/322, 4-6=-627/334
BOT CHORD	2-7=-269/421, 6-7=-239/421
WEBS	4-7=-203/401

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-10-0, Zone2 6-10-0 to 11-0-15, Zone1 11-0-15 to 13-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 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:

May 12,2026

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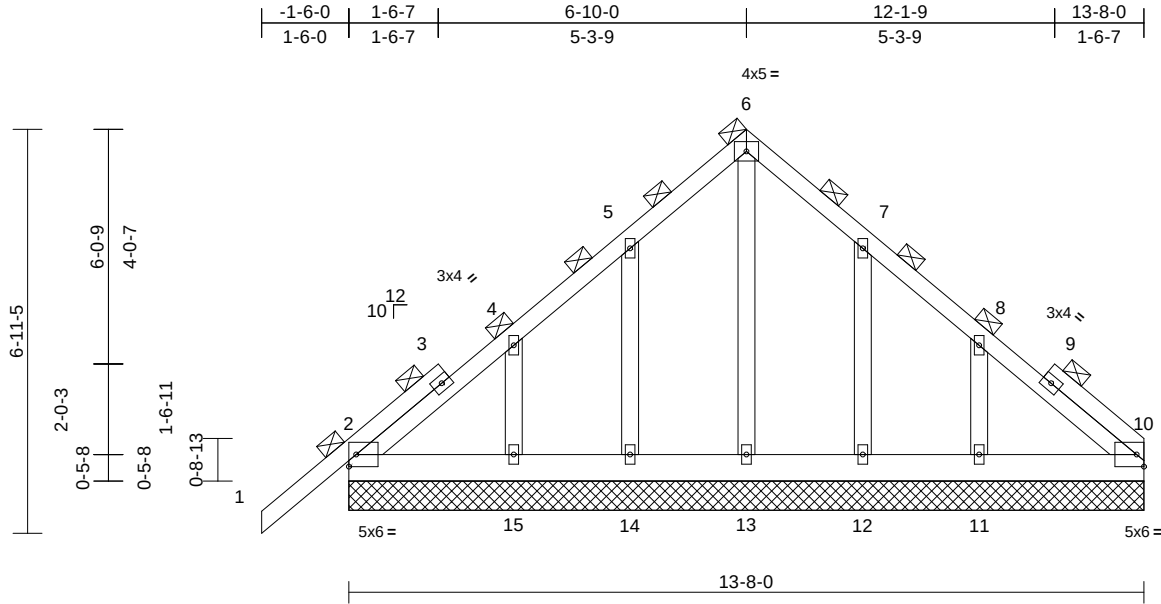
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5371215	T07G	Common Supported Gable	1	1	T41148570
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. Mon May 11 12:46:39
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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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 92 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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=13-8-0, 10=13-8-0, 11=13-8-0, 12=13-8-0, 13=13-8-0, 14=13-8-0, 15=13-8-0
Max Horiz 2=152 (LC 9)
Max Uplift 2=-23 (LC 8), 11=-142 (LC 13), 12=-93 (LC 13), 14=-102 (LC 12), 15=-117 (LC 12)
Max Grav 2=230 (LC 1), 10=113 (LC 22), 11=249 (LC 20), 12=160 (LC 20), 13=136 (LC 22), 14=174 (LC 19), 15=208 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-4=-123/92, 4-5=-97/59, 5-6=-82/120, 6-7=-82/119, 7-8=-74/30, 8-10=-104/65
BOT CHORD 2-15=-75/125, 14-15=-50/125, 13-14=-50/125, 12-13=-50/125, 11-12=-50/125, 10-11=-50/125
WEBS 6-13=-93/14, 5-14=-142/144, 4-15=-148/150, 7-12=-139/141, 8-11=-158/157

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 B; 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 23 lb uplift at joint 2, 102 lb uplift at joint 14, 117 lb uplift at joint 15, 93 lb uplift at joint 12, 142 lb uplift at joint 11 and 23 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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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 12,2026

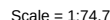
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Apr 17 2026 Print: 25.4.0 S Apr 17 2026 MiTek Industries, Inc. Mon May 11 12:46:39 Page: 1
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[illegible]

- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-7-0, Zone3 11-7-0 to 14-7-0, Zone2 14-7-0 to 18-9-15, Zone1 18-9-15 to 27-8-0 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) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 2, 265 lb uplift at joint 14 and 114 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00" tall by 2'-00"-00" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 2, 265 lb uplift at joint 14 and 114 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) StandardLOAD CASE(S) Standard

- 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.

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Date:

May 12, 2026



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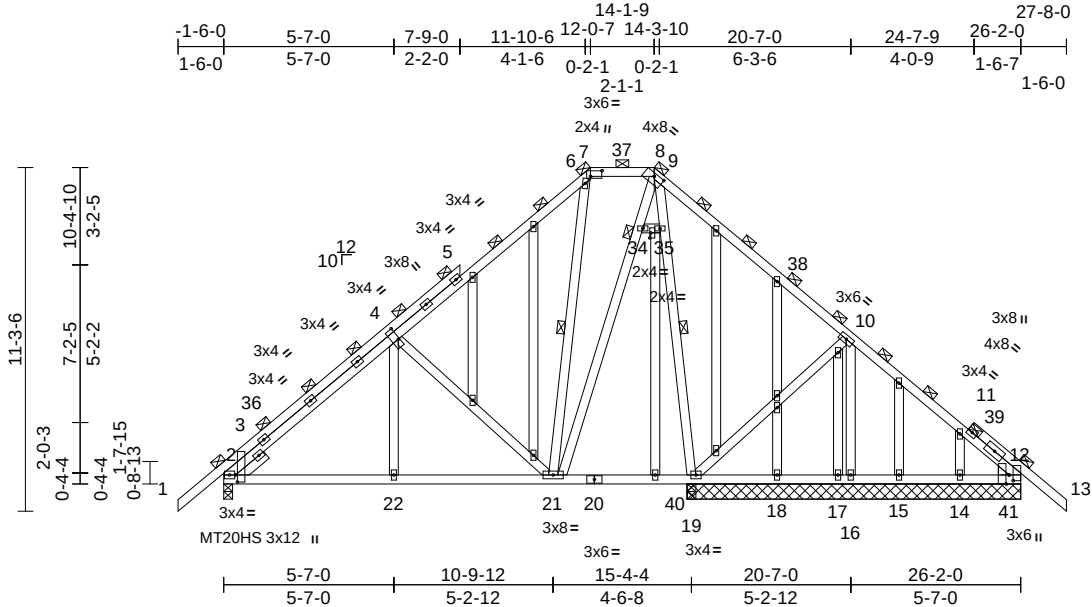
Job	Truss	Truss Type	Qty	Ply	
5371215	T08G	Piggyback Base Structural Gable	1	1	T41148572
Job Reference (optional)					

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. Mon May 11 12:46:39

Page: 1

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Scale = 1:75.6

Plate Offsets (X, Y): [2:0-2-12,0-0-12], [4:0-5-0,0-0-8], [7:0-4-8,0-2-4], [8:0-4-0,0-1-4], [12:Edge,0-4-9], [12:0-3-8,Edge], [35:0-2-0,0-0-7]

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	0.41	Vert(LL)	-0.02	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.04	21-22	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 257 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 Right: 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-2-8

BRACING
TOP CHORD 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 12-14.
WEBS 1 Row at midpt 6-21, 9-19
JOINTS 1 Brace at Jt(s): 7, 8, 34

REACTIONS (size)
2=0-3-8, 12=10-11-8, 14=10-11-8,
15=10-11-8, 16=10-11-8,
17=10-11-8, 18=10-11-8,
19=10-11-8
Max Horiz 2=-270 (LC 10)
Max Uplift 2=-130 (LC 12), 12=-12 (LC 9),
14=-60 (LC 13), 16=-78 (LC 13),
19=-360 (LC 13)
Max Grav 2=753 (LC 22), 12=230 (LC 29),
14=150 (LC 23), 15=68 (LC 18),
16=301 (LC 29), 17=77 (LC 18),
18=79 (LC 3), 19=945 (LC 23)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/55, 2-4=-745/80, 4-6=-413/95,
6-7=-240/147, 7-8=-239/160, 8-9=-474/232,
9-10=-98/188, 10-12=-143/123, 12-13=0/53
BOT CHORD 2-22=-188/680, 21-22=-187/676,
19-21=-135/333, 18-19=-76/193,
17-18=-76/193, 16-17=-76/193,
15-16=-76/193, 14-15=-76/193,
12-14=-82/199

WEBS
4-21=-489/284, 6-21=-121/90,
21-34=-257/638, 8-34=-255/632,
9-35=-754/288, 19-35=-753/287,
10-19=-131/223, 4-22=0/197, 10-16=-280/71,
34-35=-7/19

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-7, Zone3 12-0-7 to 14-1-9, Zone2 14-1-9 to 18-4-7, Zone1 18-4-7 to 27-8-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Vertical gable studs spaced at 2-0-0 oc and horizontal 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 130 lb uplift at joint 2, 360 lb uplift at joint 19, 78 lb uplift at joint 16, 12 lb uplift at joint 12 and 60 lb uplift at joint 14.
- 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:

May 12,2026

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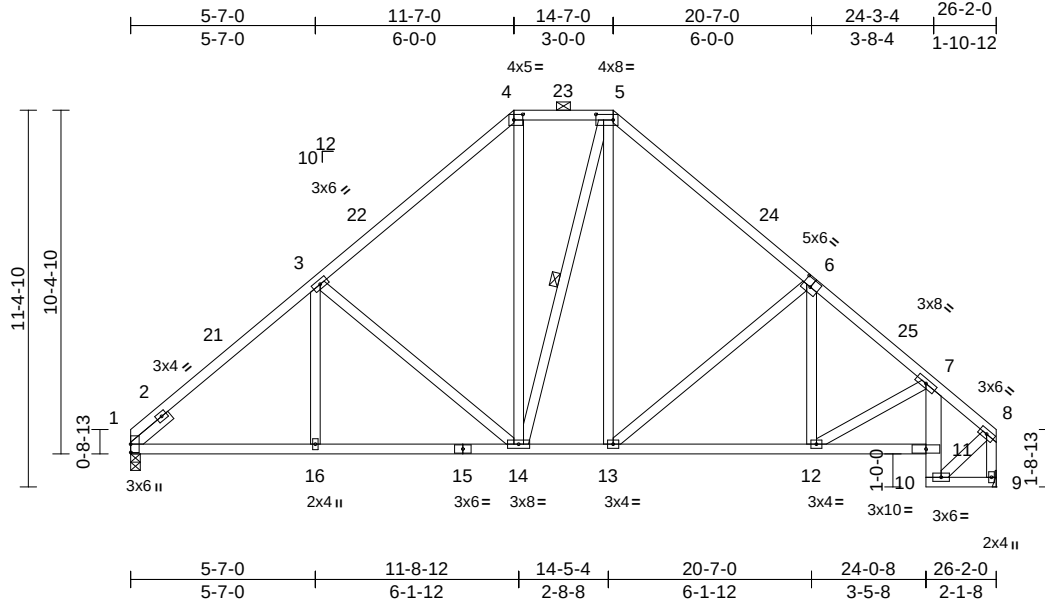
Job	Truss	Truss Type	Qty	Ply	
5371215	T09	Piggyback Base	5	1	T41148573
Job Reference (optional)					

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. Mon May 11 12:46:39

Page: 1

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Scale = 1:69.6

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

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	0.43	Vert(LL)	-0.05	12-13	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.12	12-13	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 189 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 7-10:2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

REACTIONS (size) 1=0-3-8, 9= Mechanical
Max Horiz 1=239 (LC 9)
Max Uplift 1=-229 (LC 12), 9=-228 (LC 13)
Max Grav 1=1041 (LC 1), 9=1041 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1309/296, 3-4=-1003/307, 4-5=-677/300, 5-7=-1257/306, 7-8=-811/189, 8-9=-1061/239
BOT CHORD 1-16=-297/971, 14-16=-297/971, 13-14=-66/673, 12-13=-147/935, 11-12=-161/847, 10-11=-424/90, 7-11=-412/99, 9-10=-6/19
WEBS 3-14=-406/269, 4-14=-139/335, 5-14=-130/138, 5-13=-132/328, 6-13=-394/255, 7-12=-23/103, 8-10=-140/731, 3-16=0/224, 6-12=0/204

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-7-0, Zone3 11-7-0 to 14-7-0, Zone2 14-7-0 to 18-9-15, Zone1 18-9-15 to 26-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 229 lb uplift at joint 1 and 228 lb uplift at joint 9.
- 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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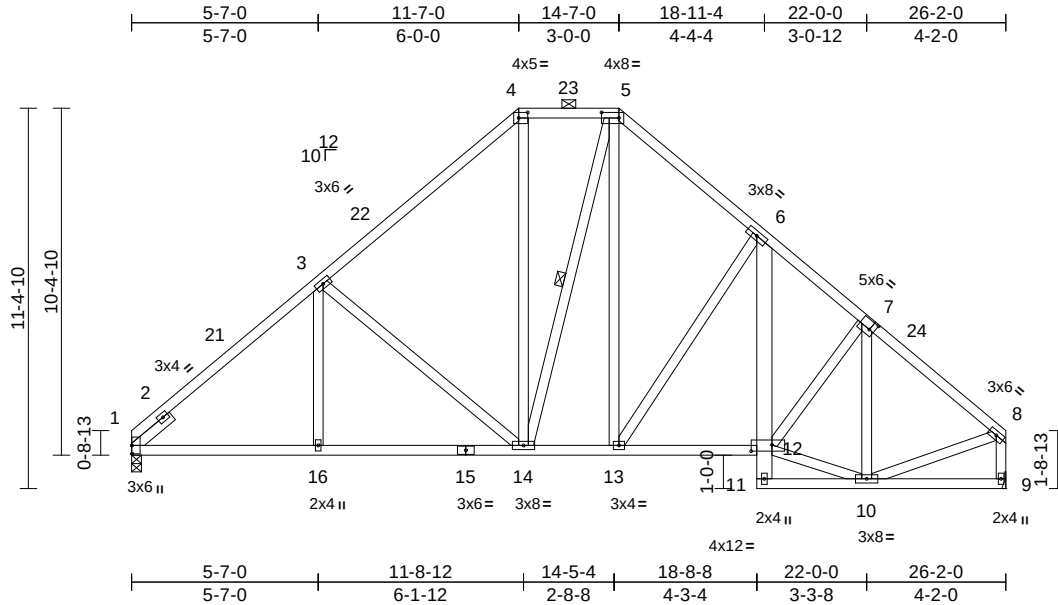
Job	Truss	Truss Type	Qty	Ply	
5371215	T10	Piggyback Base	6	1	T41148574
Job Reference (optional)					

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. Mon May 11 12:46:39

Page: 1

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Scale = 1:69

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

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	0.43	Vert(LL)	-0.05	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	14-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 208 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 6-11:2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-5.

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

WEBS 1 Row at midpt 5-14

REACTIONS

(size) 1=0-3-8, 9= Mechanical
Max Horiz 1=239 (LC 9)
Max Uplift 1=-229 (LC 12), 9=-228 (LC 13)
Max Grav 1=1041 (LC 1), 9=1041 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-1308/296, 3-4=-1003/307, 4-5=-677/300, 5-6=-960/320, 6-8=-1165/313, 8-9=-1000/236
BOT CHORD 1-16=-297/970, 14-16=-297/970, 13-14=-68/667, 12-13=-124/864, 11-12=0/51, 6-12=-79/241, 10-11=-28/69, 9-10=-21/42
WEBS 3-14=-405/269, 4-14=-124/331, 5-14=-123/147, 5-13=-179/369, 6-13=-395/246, 3-16=0/222, 7-10=-432/104, 8-10=-119/756, 10-12=-101/704, 7-12=-50/189

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-7-0, Zone3 11-7-0 to 14-7-0, Zone2 14-7-0 to 18-11-4, Zone1 18-11-4 to 26-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 229 lb uplift at joint 1 and 228 lb uplift at joint 9.
- 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:

May 12,2026

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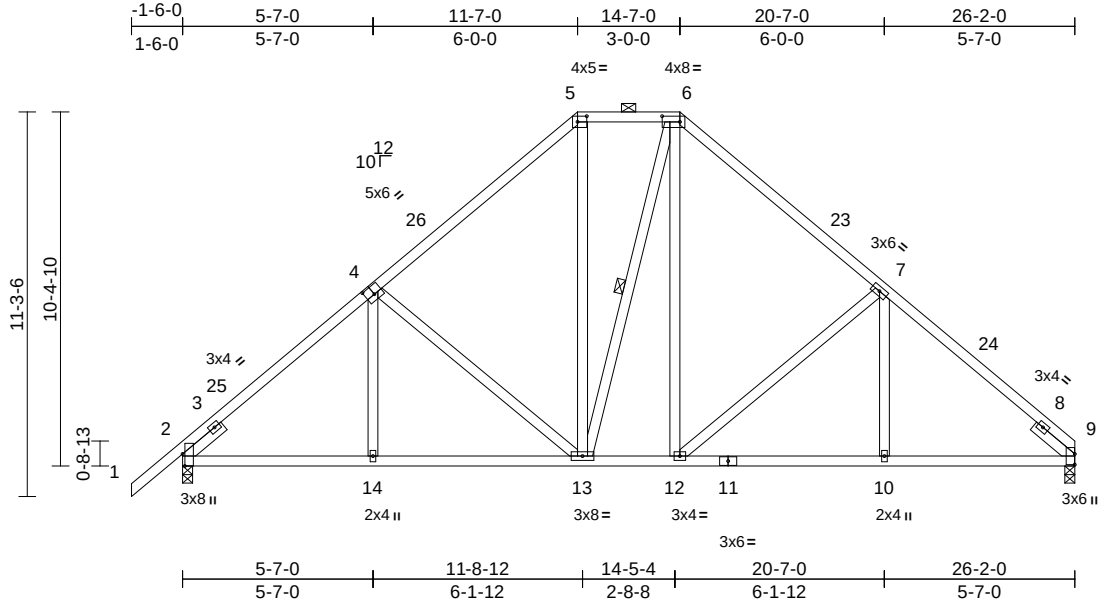
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5371215	T11	Piggyback Base	6	1	T41148575
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. Mon May 11 12:46:40
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Page: 1



Scale = 1:67.6

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

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	0.49	Vert(LL)	-0.05	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.12	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 177 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied, except 2-0-0 oc purlins: 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-13

REACTIONS

(size)	2=0-3-8, 9=0-3-8
Max Horiz	2=260 (LC 9)
Max Uplift	2=-255 (LC 12), 9=-216 (LC 13)
Max Grav	2=1139 (LC 1), 9=1044 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	5-6=-680/284, 6-7=-1006/289, 7-9=-1314/278, 1-2=0/58, 2-5=-1304/290
BOT CHORD	2-14=-275/965, 13-14=-275/966, 12-13=-66/679, 10-12=-135/947, 9-10=-137/947
WEBS	4-13=-393/262, 5-13=-131/338, 6-13=-129/132, 6-12=-139/340, 7-12=-408/271, 4-14=0/220, 7-10=0/226

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-7-0, Zone3 11-7-0 to 14-7-0, Zone2 14-7-0 to 18-9-15, Zone1 18-9-15 to 26-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 9 and 255 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
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingle Ridge Rd. Chesterfield, MO 63017
Date:

May 12,2026

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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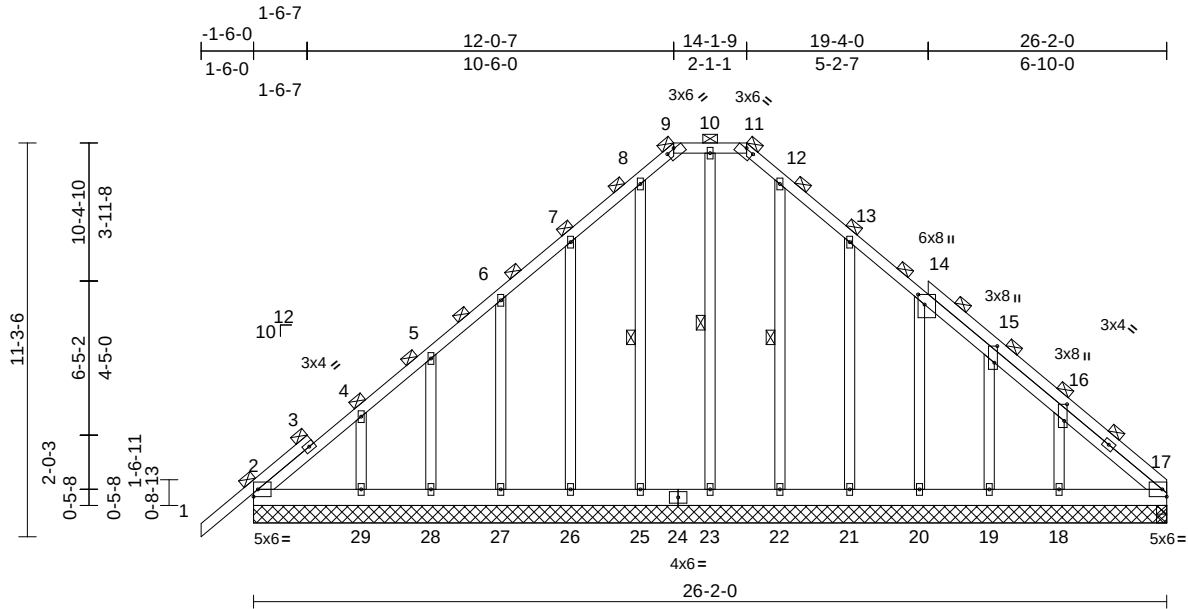
Job	Truss	Truss Type	Qty	Ply	
5371215	T11G	Piggyback Base Supported Gable	1	1	T41148576
Job Reference (optional)					

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. Mon May 11 12:46:40

Page: 1

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Scale = 1:66

Plate Offsets (X, Y): [9:0-3-0,0-0-4], [11:0-3-0,0-0-4], [14:0-3-7,0-2-4], [15:0-5-11,0-1-0], [16:0-5-11,0-1-0]

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	0.16	Vert(LL)	0.00	18-35	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	18-35	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	17	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 227 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 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.

WEBS 1 Row at midpt 10-23, 8-25, 12-22

REACTIONS (size) 2=26-2-0, 17=26-2-0, 18=26-2-0,
19=26-2-0, 20=26-2-0, 21=26-2-0,
22=26-2-0, 23=26-2-0, 25=26-2-0,
26=26-2-0, 27=26-2-0, 28=26-2-0,
29=26-2-0
Max Horiz 2=260 (LC 9)
Max Uplift 2=-53 (LC 8), 17=-30 (LC 9),
18=-187 (LC 13), 19=-76 (LC 13),
20=-100 (LC 13), 21=-113 (LC 13),
22=-39 (LC 13), 23=-11 (LC 9),
25=-48 (LC 12), 26=-114 (LC 12),
27=-103 (LC 12), 28=-92 (LC 12),
29=-128 (LC 12)
Max Grav 2=246 (LC 1), 17=193 (LC 22),
18=272 (LC 20), 19=145 (LC 20),
20=179 (LC 20), 21=179 (LC 20),
22=151 (LC 20), 23=160 (LC 22),
25=161 (LC 19), 26=177 (LC 19),
27=179 (LC 19), 28=157 (LC 19),
29=231 (LC 19)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/58, 2-4=-283/180, 4-5=-196/142,
5-6=-134/114, 6-7=-114/97, 7-8=-99/136,
8-9=-108/141, 9-10=-89/132, 10-11=-89/132,
11-12=-108/139, 12-13=-94/110,
13-14=-77/53, 14-15=-108/68, 15-16=-154/93,
16-17=-266/146

BOT CHORD 2-29=-143/237, 28-29=-108/237,
27-28=-108/237, 26-27=-108/237,
25-26=-108/237, 23-25=-108/237,
22-23=-108/237, 21-22=-108/237,
20-21=-108/237, 19-20=-108/237,
18-19=-108/237, 17-18=-108/237
WEBS 10-23=-120/29, 8-25=-121/59, 7-26=-138/126,
6-27=-136/112, 5-28=-130/112,
4-29=-158/119, 12-22=-111/51,
13-21=-140/126, 14-20=-134/107,
15-19=-123/104, 16-18=-183/158

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 B; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 53 lb uplift at joint 2, 30 lb uplift at joint 17, 11 lb uplift at joint 23, 48 lb uplift at joint 25, 114 lb uplift at joint 26, 103 lb uplift at joint 27, 92 lb uplift at joint 28, 128 lb uplift at joint 29, 39 lb uplift at joint 22, 113 lb uplift at joint 21, 100 lb uplift at joint 20, 76 lb uplift at joint 19, 187 lb uplift at joint 18, 53 lb uplift at joint 2 and 30 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:

May 12,2026

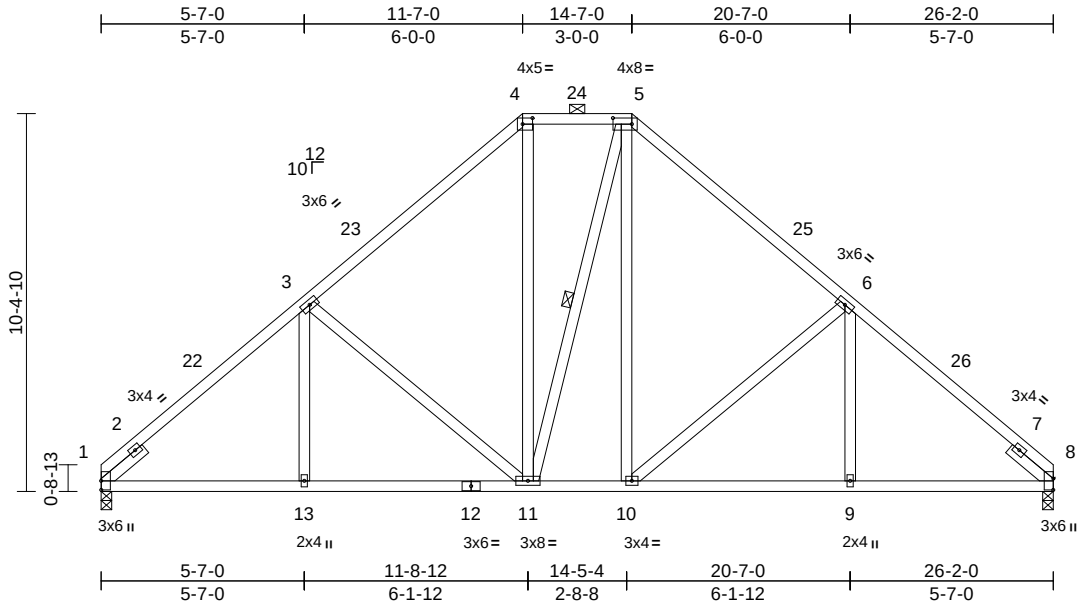
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5371215	T12	Piggyback Base	1	1	T41148577
Job Reference (optional)					



Scale = 1:63.3

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

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	0.44	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.12	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 175 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins: 4-5.

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

WEBS 1 Row at midpt 5-11

REACTIONS (size) 1=0-3-8, 8=0-3-8

Max Horiz 1=-240 (LC 8)

Max Uplift 1=-230 (LC 12), 8=-230 (LC 13)

Max Grav 1=1047 (LC 1), 8=1047 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-1317/297, 3-4=-1011/309, 4-5=-683/301, 5-6=-1010/309, 6-8=-1318/298

BOT CHORD 1-13=-295/977, 11-13=-295/977, 10-11=-66/682, 9-10=-149/949, 8-9=-149/949

WEBS 3-11=-406/269, 4-11=-138/340, 5-11=-128/131, 5-10=-139/341, 6-10=-408/270, 3-13=0/224, 6-9=0/226

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 11-7-0, Zone3 11-7-0 to 14-7-0, Zone2 14-7-0 to 18-9-15, Zone1 18-9-15 to 26-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 230 lb uplift at joint 1 and 230 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:

May 12,2026

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

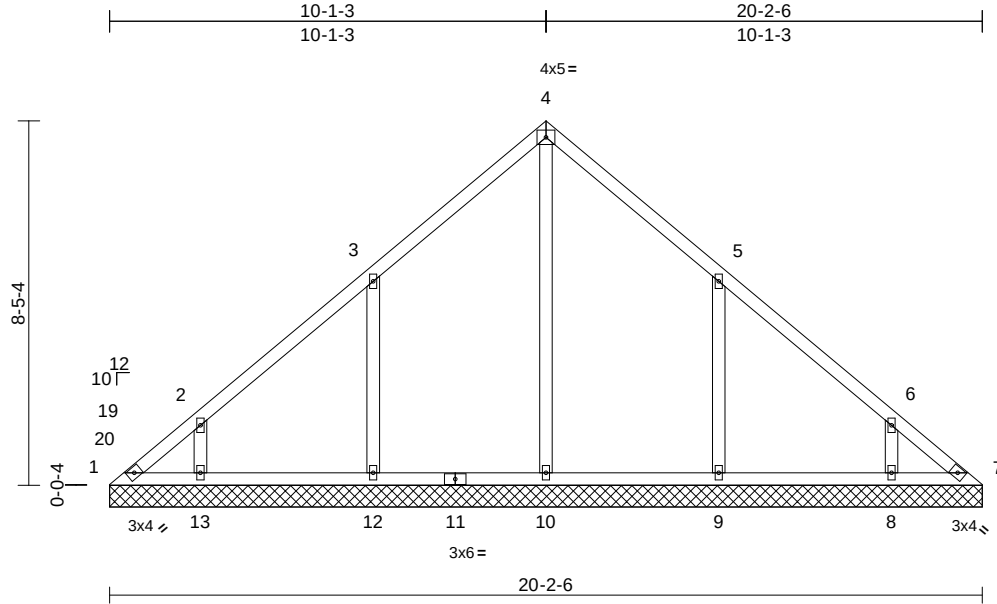
Job	Truss	Truss Type	Qty	Ply	
5371215	V01	Valley	1	1	T41148578
Job Reference (optional)					

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. Mon May 11 12:46:40

Page: 1

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Scale = 1:53.3

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	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 97 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=20-2-6, 7=20-2-6, 8=20-2-6,
9=20-2-6, 10=20-2-6, 12=20-2-6,
13=20-2-6
Max Horiz 1=-203 (LC 8)
Max Uplift 1=-121 (LC 10), 8=-125 (LC 13),
9=-242 (LC 13), 10=-3 (LC 9),
12=-229 (LC 12), 13=-150 (LC 12)
Max Grav 1=128 (LC 9), 8=341 (LC 20),
9=469 (LC 20), 10=573 (LC 22),
12=476 (LC 19), 13=318 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-219/261, 2-3=-171/245, 3-4=-126/289,
4-5=-126/262, 5-6=-29/141, 6-7=-64/125
BOT CHORD 1-13=-67/71, 12-13=-64/69, 10-12=-64/69,
9-10=-64/69, 8-9=-64/69, 7-8=-64/70
WEBS 4-10=-365/34, 3-12=-302/252, 2-13=-215/183,
5-9=-298/257, 6-8=-225/174

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 B; 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 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 121 lb uplift at joint 1, 3 lb uplift at joint 10, 229 lb uplift at joint 12, 150 lb uplift at joint 13, 242 lb uplift at joint 9 and 125 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:

May 12,2026

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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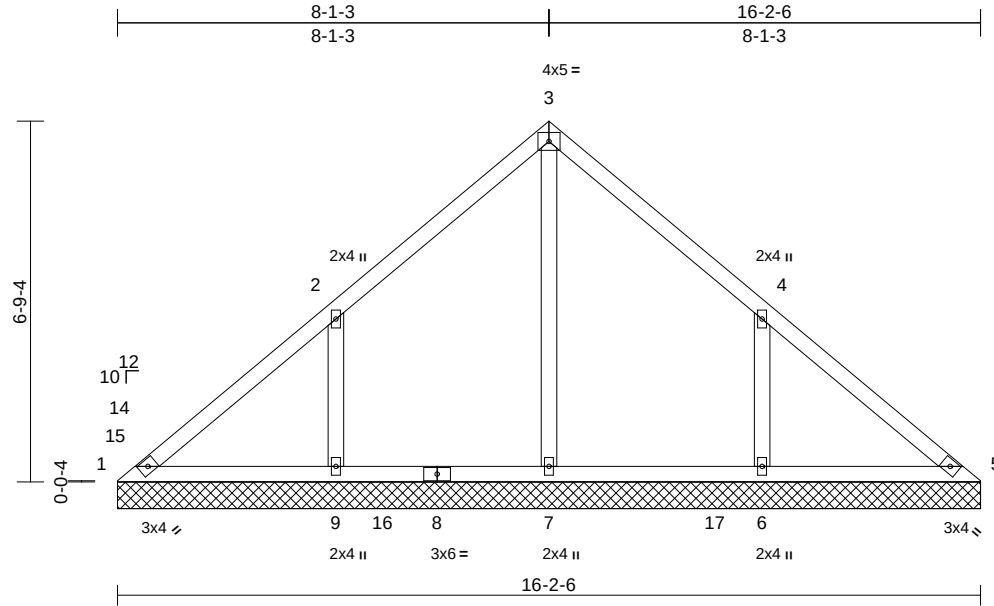
Job	Truss	Truss Type	Qty	Ply	
5371215	V02	Valley	1	1	T41148579
Job Reference (optional)					

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. Mon May 11 12:46:40

Page: 1

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Scale = 1:43.3

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	0.22	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	0.22	Horiz(TL)	0.00	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 72 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=16-2-6, 5=16-2-6, 6=16-2-6,
7=16-2-6, 9=16-2-6
Max Horiz 1=-162 (LC 8)
Max Uplift 1=-39 (LC 8), 6=-234 (LC 13),
9=-236 (LC 12)
Max Grav 1=114 (LC 20), 5=102 (LC 26),
6=496 (LC 20), 7=468 (LC 19),
9=497 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-148/219, 2-3=-50/169, 3-4=-45/147,
4-5=-125/177
BOT CHORD 1-9=-101/142, 7-9=-101/142, 6-7=-101/142,
5-6=-101/142
WEBS 3-7=-278/13, 2-9=-307/265, 4-6=-306/265

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 B; 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 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 39 lb uplift at joint 1, 236 lb uplift at joint 9 and 234 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:

May 12,2026

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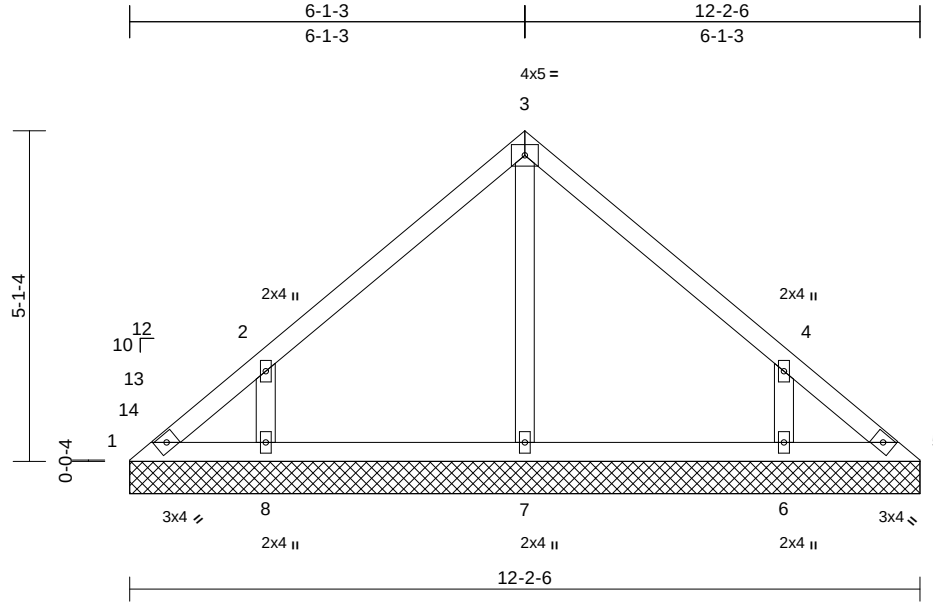
Job	Truss	Truss Type	Qty	Ply	
5371215	V03	Valley	1	1	T41148580
Job Reference (optional)					

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. Mon May 11 12:46:40

Page: 1

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Scale = 1:35.6												
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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 51 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 10-0-0 oc bracing.

REACTIONS (size) 1=12-2-6, 5=12-2-6, 6=12-2-6,
7=12-2-6, 8=12-2-6
Max Horiz 1=-121 (LC 8)
Max Uplift 1=-45 (LC 8), 5=-12 (LC 9), 6=-183
(LC 13), 8=-185 (LC 12)
Max Grav 1=83 (LC 20), 5=75 (LC 19), 6=327
(LC 20), 7=244 (LC 1), 8=329 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-117/106, 2-3=-145/137, 3-4=-134/137,
4-5=-94/66
BOT CHORD 1-8=-35/78, 7-8=-35/75, 6-7=-35/75,
5-6=-35/75
WEBS 3-7=-158/5, 2-8=-270/288, 4-6=-270/289

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 B; 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 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 45 lb uplift at joint 1, 12 lb uplift at joint 5, 185 lb uplift at joint 8 and 183 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:

May 12,2026

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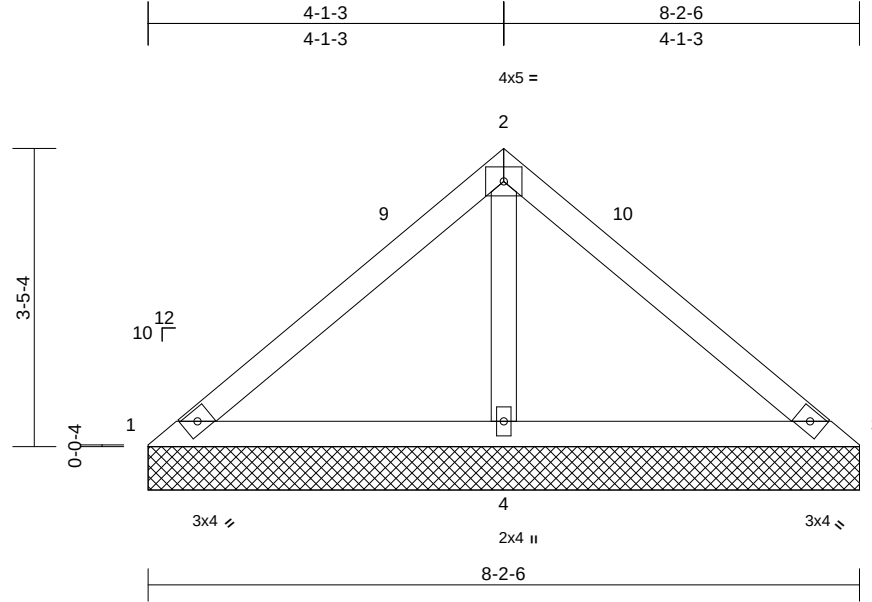
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5371215	V04	Valley	1	1	T41148581
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. Mon May 11 12:46:40
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Page: 1



Scale = 1:26.6

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							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=8-2-6, 3=8-2-6, 4=8-2-6
	Max Horiz	1=-80 (LC 8)
	Max Uplift	1=-18 (LC 26), 3=-18 (LC 25), 4=-181 (LC 12)
	Max Grav	1=64 (LC 25), 3=64 (LC 26), 4=596 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-160/242, 2-3=-176/242
BOT CHORD	1-4=-191/251, 3-4=-191/251
WEBS	2-4=-434/338

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-0-5 to 3-0-5, Zone1 3-0-5 to 4-1-8, Zone3 4-1-8 to 8-2-11 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 18 lb uplift at joint 1, 18 lb uplift at joint 3 and 181 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:

May 12,2026

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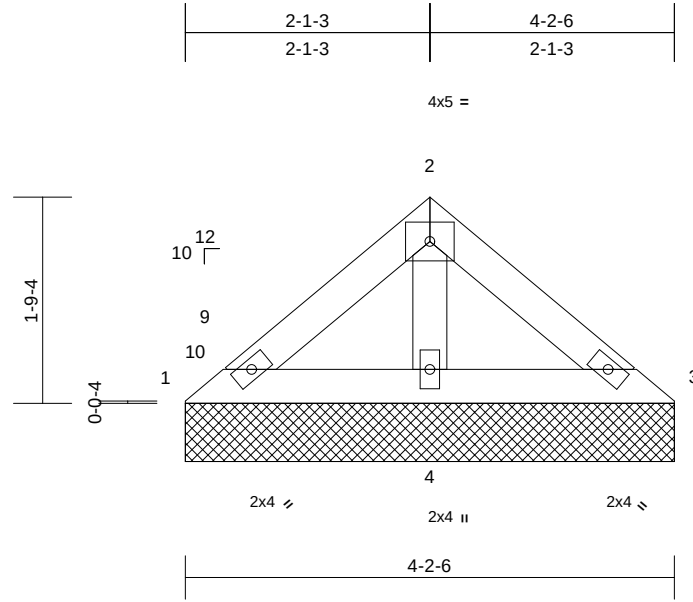
Job	Truss	Truss Type	Qty	Ply	
5371215	V05	Valley	1	1	T41148582
Job Reference (optional)					

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. Mon May 11 12:46:40

Page: 1

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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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 15 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=4-2-6, 3=4-2-6, 4=4-2-6
Max Horiz	1=-38 (LC 8)
Max Uplift	1=-3 (LC 13), 3=-15 (LC 13), 4=-56 (LC 12)
Max Grav	1=38 (LC 25), 3=58 (LC 26), 4=234 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-39/67, 2-3=-51/64
BOT CHORD	1-4=-55/89, 3-4=-55/89
WEBS	2-4=-135/100

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 B; 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 1, 15 lb uplift at joint 3 and 56 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:

May 12,2026

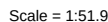
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LOAD CASE(S) Standard

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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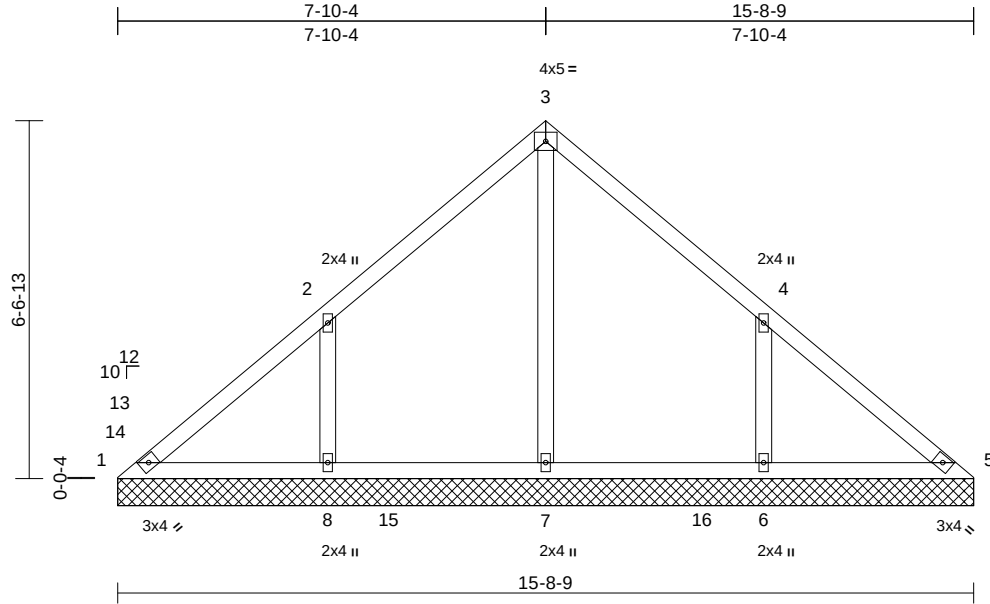
Job	Truss	Truss Type	Qty	Ply	
5371215	V07	Valley	1	1	T41148584
Job Reference (optional)					

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

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Page: 1

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Scale = 1:42.3

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 69 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=15-8-9, 5=15-8-9, 6=15-8-9,
7=15-8-9, 8=15-8-9
Max Horiz 1=-157 (LC 8)
Max Uplift 1=-39 (LC 8), 6=-226 (LC 13),
8=-228 (LC 12)
Max Grav 1=114 (LC 20), 5=101 (LC 19),
6=477 (LC 20), 7=450 (LC 19),
8=478 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-144/196, 2-3=-67/154, 3-4=-57/133,
4-5=-126/156
BOT CHORD 1-8=-88/132, 7-8=-88/132, 6-7=-88/132,
5-6=-88/132
WEBS 3-7=-259/10, 2-8=-299/263, 4-6=-298/264

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 B; 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 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 39 lb uplift at joint 1, 228 lb uplift at joint 8 and 226 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:

May 12,2026

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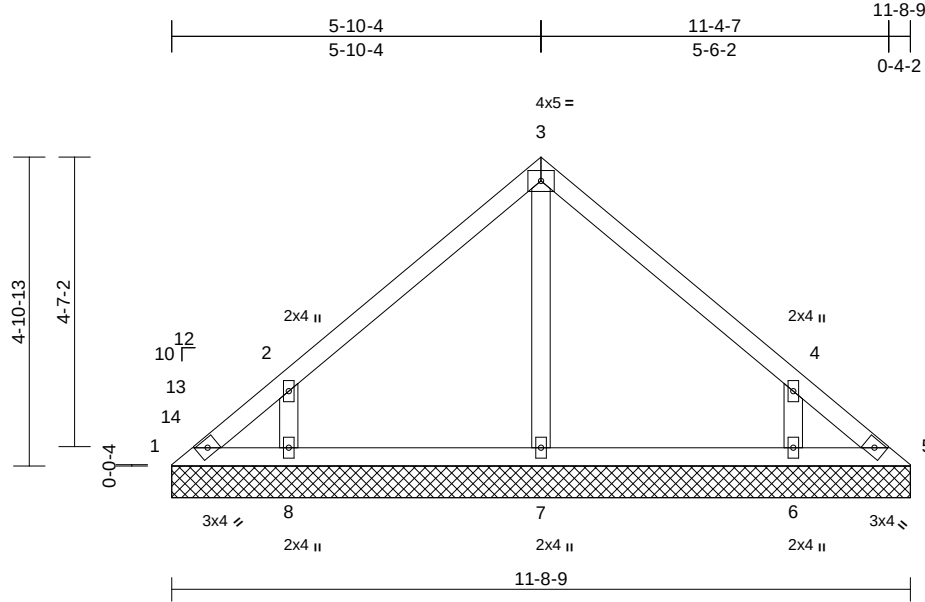
Job	Truss	Truss Type	Qty	Ply	
5371215	V08	Valley	1	1	T41148585
Job Reference (optional)					

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. Mon May 11 12:46:41

Page: 1

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Scale = 1:36.5											
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	0.17	Vert(LL)	n/a	-	n/a	999	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999	MT20
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 48 lb
											FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 1=11-8-9, 5=11-8-9, 6=11-8-9,
7=11-8-9, 8=11-8-9
Max Horiz 1=-116 (LC 8)
Max Uplift 1=-47 (LC 8), 5=-15 (LC 9), 6=-180
(LC 13), 8=-182 (LC 12)
Max Grav 1=75 (LC 11), 5=65 (LC 19), 6=324
(LC 20), 7=237 (LC 1), 8=325 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-119/104, 2-3=-150/137, 3-4=-140/137,
4-5=-94/67
BOT CHORD 1-8=-35/76, 7-8=-30/76, 6-7=-30/76,
5-6=-30/76
WEBS 3-7=-150/6, 2-8=-277/304, 4-6=-276/305

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 B; 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 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 47 lb uplift at joint 1, 15 lb uplift at joint 5, 182 lb uplift at joint 8 and 180 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:

May 12,2026

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Chesterfield, MO 63017
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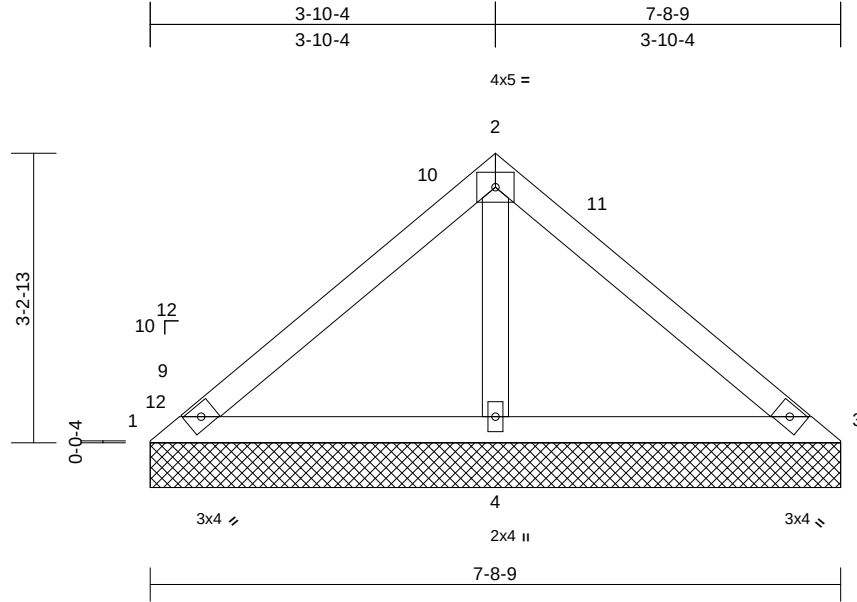
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5371215	V09	Valley	1	1	T41148586
Job Reference (optional)					

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Scale = 1:25.7

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)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 29 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=7-8-9, 3=7-8-9, 4=7-8-9
Max Horiz	1=-75 (LC 8)
Max Uplift	1=-18 (LC 26), 3=-10 (LC 25), 4=-159 (LC 12)
Max Grav	1=45 (LC 25), 3=66 (LC 26), 4=541 (LC 1)

FORCES

	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-144/213, 2-3=-153/213
BOT CHORD	1-4=-170/230, 3-4=-170/230
WEBS	2-4=-388/315

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 B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-4-13 to 3-4-13, Zone1 3-4-13 to 3-10-9, Zone3 3-10-9 to 7-8-14 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 18 lb uplift at joint 1, 10 lb uplift at joint 3 and 159 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:

May 12,2026

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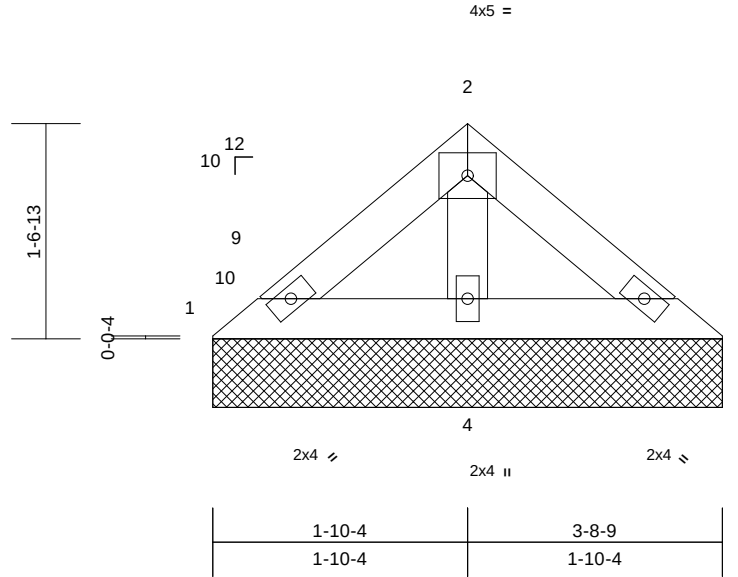
Job	Truss	Truss Type	Qty	Ply	
5371215	V10	Valley	1	1	T41148587
Job Reference (optional)					

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

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Page: 1

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Scale = 1:16.8

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	0.03	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	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

BRACING

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

REACTIONS

(size) 1=3-8-9, 3=3-8-9, 4=3-8-9
Max Horiz 1=-33 (LC 8)
Max Uplift 1=-4 (LC 13), 3=-15 (LC 13), 4=-46 (LC 12)
Max Grav 1=34 (LC 25), 3=53 (LC 26), 4=200 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-34/53, 2-3=-47/49
BOT CHORD 1-4=-44/72, 3-4=-44/72
WEBS 2-4=-108/74

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 B; 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 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 4 lb uplift at joint 1, 15 lb uplift at joint 3 and 46 lb uplift at joint 4.

LOAD CASE(S) Standard

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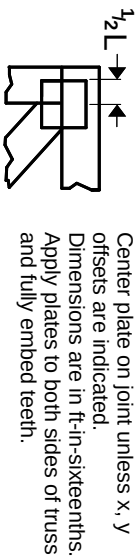
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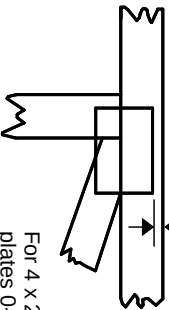
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Symbols

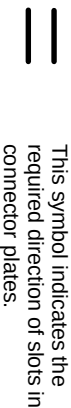
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

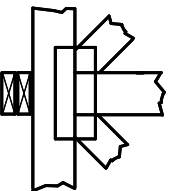
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

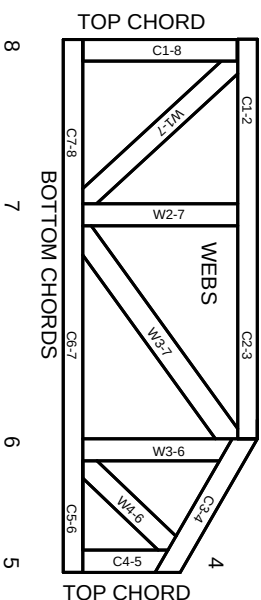
Industry Standards:

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

Numbering System



1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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