



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

RE: 5636323 -

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: GIEBEIG HOMES Project Name: Sessions Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 25.4
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 24 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	T42292985	A01	8/25/26	15	T42292999	C04	8/25/26
2	T42292986	A02	8/25/26	16	T42293000	HJ01	8/25/26
3	T42292987	A03	8/25/26	17	T42293001	HJ02	8/25/26
4	T42292988	A04	8/25/26	18	T42293002	J01	8/25/26
5	T42292989	A05	8/25/26	19	T42293003	J02	8/25/26
6	T42292990	A06	8/25/26	20	T42293004	J03	8/25/26
7	T42292991	A07	8/25/26	21	T42293005	J04	8/25/26
8	T42292992	B01	8/25/26	22	T42293006	J05	8/25/26
9	T42292993	B02	8/25/26	23	T42293007	J06	8/25/26
10	T42292994	B03	8/25/26	24	T42293008	J07	8/25/26
11	T42292995	B04	8/25/26				
12	T42292996	C01	8/25/26				
13	T42292997	C02	8/25/26				
14	T42292998	C03	8/25/26				

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

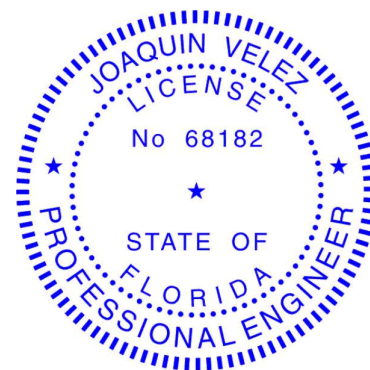
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin

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

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



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

August 25,2026

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	
5636323	A01	Roof Special	9	1	T42292985
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:32
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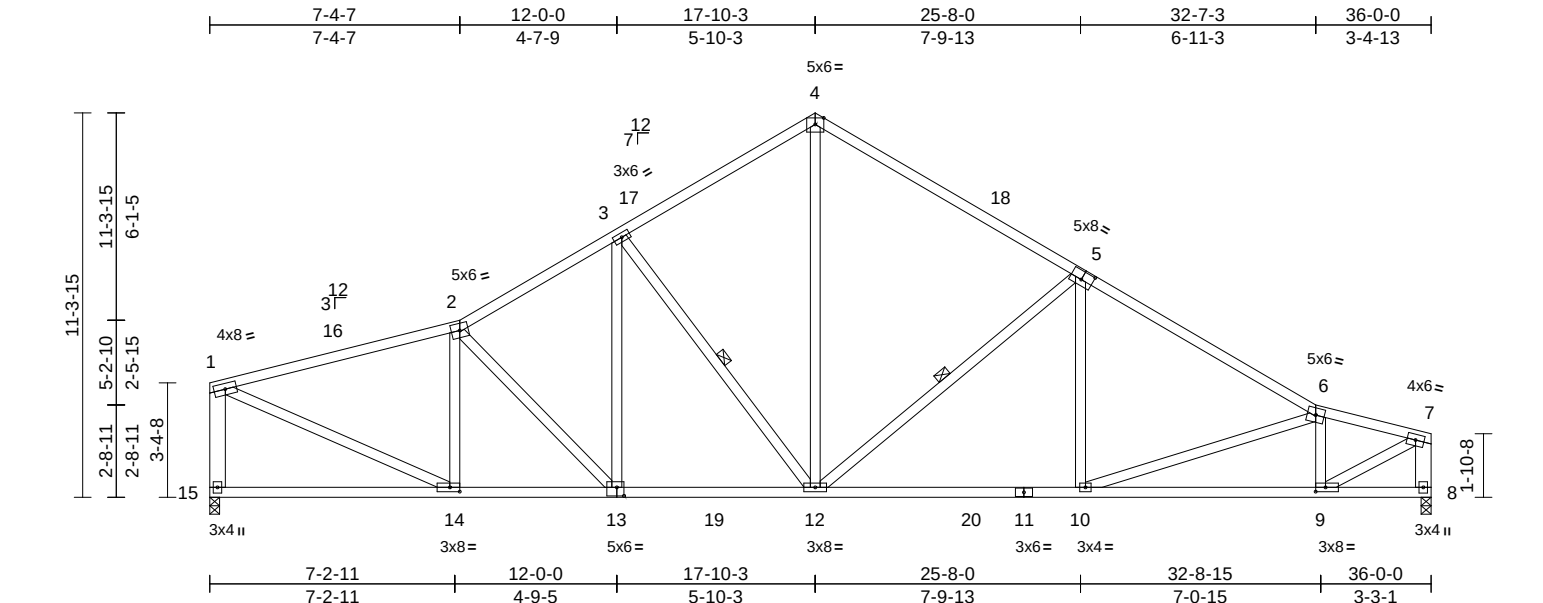


Plate Offsets (X, Y): [5:0-4-0,0-3-0], [9:0-3-8,0-1-8], [13:0-2-8,0-3-0], [14:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.18	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.33	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 234 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* 15-1,8-7:2x6 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, 5-12
REACTIONS		
(size)	8=0-3-8, 15=0-3-8	
Max Horiz	15=-242 (LC 10)	
Max Uplift	8=-143 (LC 12), 15=-144 (LC 12)	
Max Grav	8=1585 (LC 18), 15=1565 (LC 19)	
FORCES		
	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1953/286, 2-3=-1976/348, 3-4=-1593/354, 4-6=-2235/353, 6-7=-1977/285, 1-15=-1445/327, 7-8=-1546/277	
BOT CHORD	14-15=-185/239, 12-14=-256/1989, 10-12=-230/1875, 9-10=-303/1925, 8-9=-39/45	
WEBS	3-12=-663/186, 4-12=-166/1195, 5-12=-808/196, 5-10=0/385, 6-10=-114/77, 6-9=-828/210, 7-9=-286/2102, 1-14=-254/1945, 2-14=-588/186, 2-13=-316/76, 3-13=-4/419	

- 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=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-9-15, Zone1 3-9-15 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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
- 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 143 lb uplift at joint 8 and 144 lb uplift at joint 15.

LOAD CASE(S) Standard

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

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

August 25,2026

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

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

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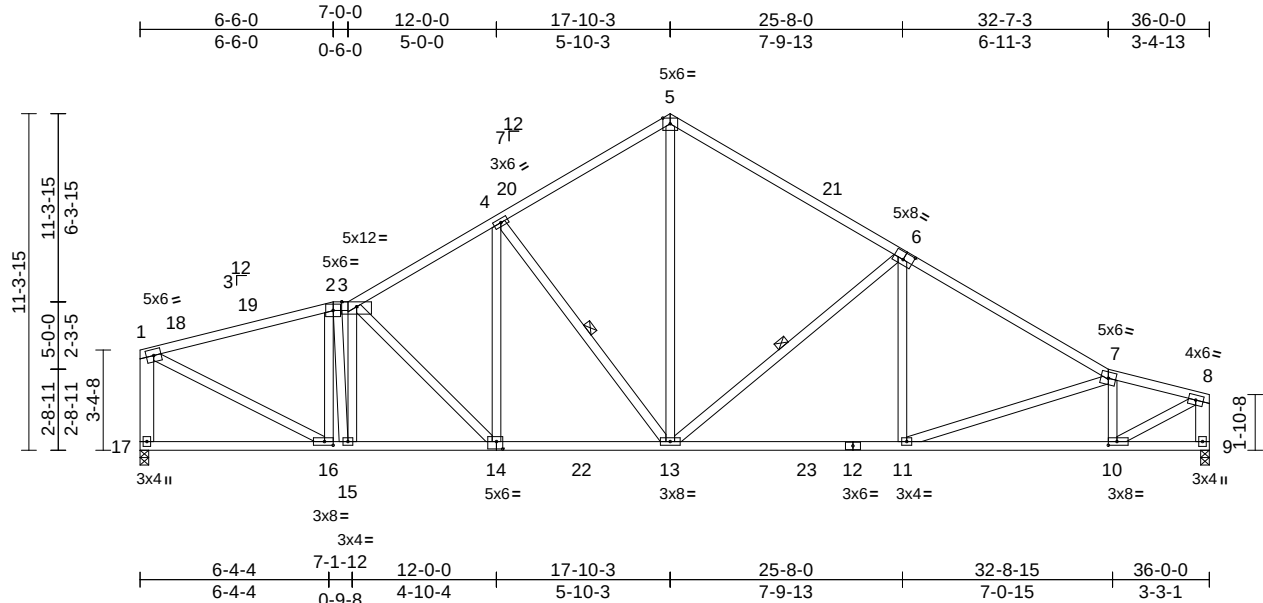
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	
5636323	A02	Roof Special	2	1	
					T42292986
					Job Reference (optional)

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:33
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Page: 1



Scale = 1:77.6											
Plate Offsets (X, Y): [6:0-4-0,0-3-0], [10:0-3-8,0-1-8], [14:0-2-8,0-3-0], [16:0-3-8,0-1-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.18 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.34 11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08 9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 246 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 17-1,9-8:2x6 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 4-13, 6-13
REACTIONS	
(size)	9=0-3-8, 17=0-3-8
Max Horiz	17=-244 (LC 10)
Max Uplift	9=-143 (LC 12), 17=-144 (LC 12)
Max Grav	9=1585 (LC 18), 17=1565 (LC 19)
FORCES	
(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-1854/322, 2-3=-1843/346, 3-4=-1965/363, 4-5=-1596/360, 5-7=-2236/371, 7-8=-1978/298, 1-17=-1468/333, 8-9=-1546/287
BOT CHORD	16-17=-194/230, 15-16=-317/1903, 13-15=-318/1966, 11-13=-245/1875, 10-11=-316/1925, 9-10=-39/45
WEBS	2-16=-577/193, 3-15=-728/75, 7-10=-829/216, 1-16=-277/1917, 8-10=-300/2102, 4-14=-7/399, 3-14=-252/99, 4-13=-679/211, 5-13=-186/1201, 6-13=-810/196, 6-11=0/387, 7-11=-114/74, 2-15=-61/625

- 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=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-9-15, Zone1 3-9-15 to 6-6-0, Zone3 6-6-0 to 7-0-0, Zone1 7-0-0 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 9 and 144 lb uplift at joint 17.

LOAD CASE(S) Standard

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 25,2026

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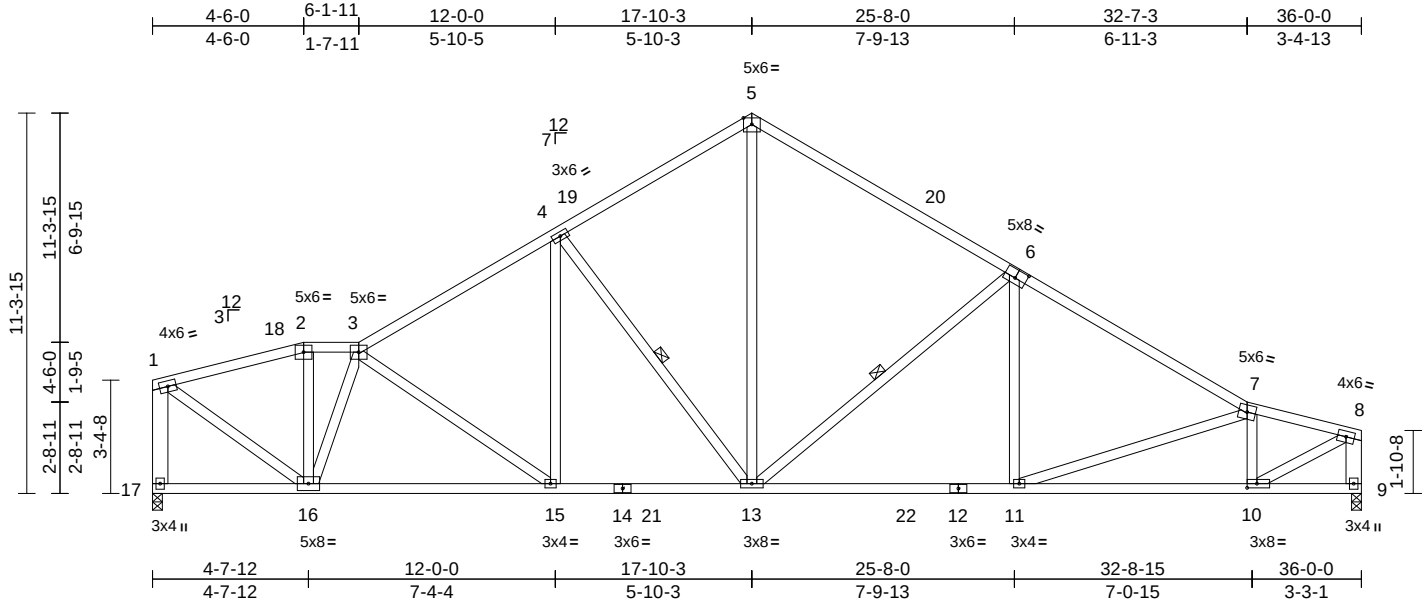
Job	Truss	Truss Type	Qty	Ply	
5636323	A03	Roof Special	2	1	T42292987
Job Reference (optional)					

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

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Scale = 1:68.6

Plate Offsets (X, Y): [6:0-4-0,0-3-0], [10:0-3-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	-0.18	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.34	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 17-1,9-8:2x6 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 4-13, 6-13

REACTIONS (size) 9=0-3-8, 17=0-3-8
Max Horiz 17=-249 (LC 10)
Max Uplift 9=-143 (LC 12), 17=-144 (LC 12)
Max Grav 9=1586 (LC 18), 17=1565 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1560/268, 2-3=-1495/279, 3-4=-2004/359, 4-5=-1597/370, 5-7=-2238/363, 7-8=-1978/292, 1-17=-1508/344, 8-9=-1546/282
BOT CHORD 16-17=-205/221, 15-16=-313/1990, 13-15=-230/1796, 11-13=-238/1876, 10-11=-310/1925, 9-10=-39/45
WEBS 2-16=0/245, 7-10=-830/213, 1-16=-301/1776, 8-10=-294/2103, 4-15=0/401, 3-15=-239/115, 4-13=-699/198, 5-13=-181/1207, 6-13=-812/195, 6-11=0/389, 7-11=-113/76, 3-16=-1099/209

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=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-9-15, Zone1 3-9-15 to 4-6-0, Zone3 4-6-0 to 6-1-11, Zone1 6-1-11 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 17 and 143 lb uplift at joint 9.

LOAD CASE(S) Standard

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

August 25,2026

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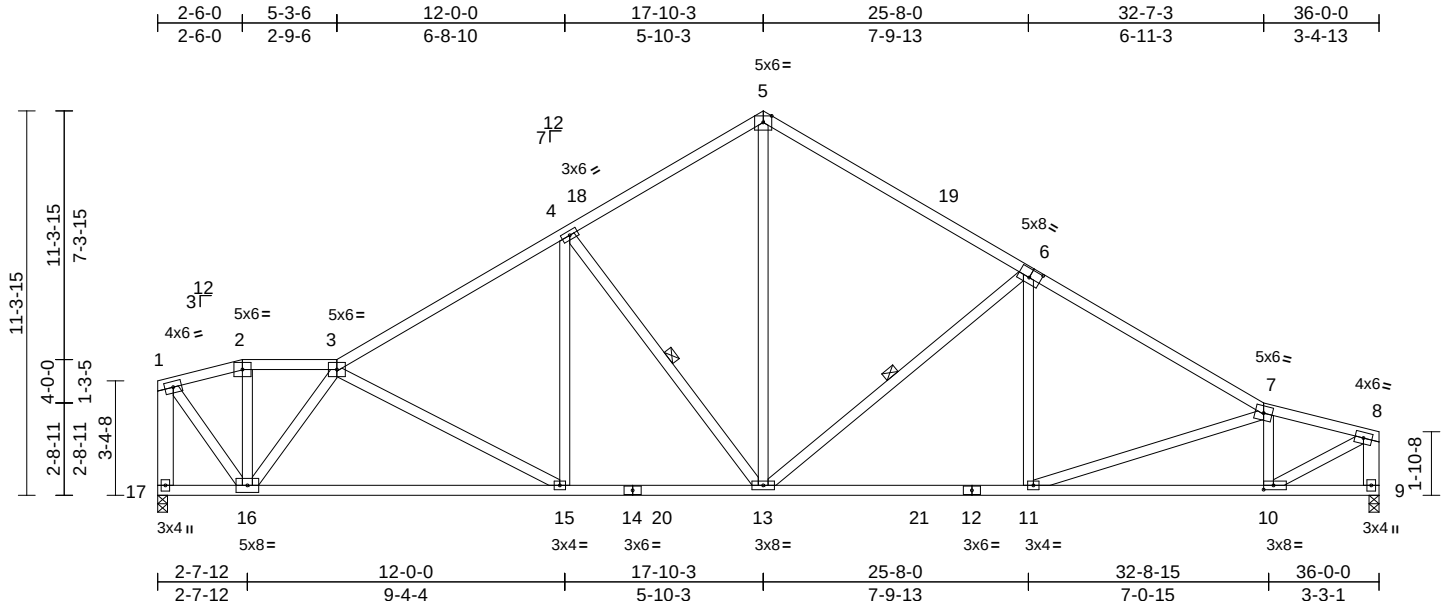
Job	Truss	Truss Type	Qty	Ply	
5636323	A04	Roof Special	2	1	T42292988
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:33

Page: 1

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Scale = 1:67.9												
Plate Offsets (X, Y): [6:0-4-0,0-3-0], [10:0-3-8,0-1-8]												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.19	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.41	15-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 235 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 17-1,9-8:2x6 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, Except: 6-0-0 oc bracing: 16-17.
WEBS 1 Row at midpt 4-13, 6-13

REACTIONS (size) 9=0-3-8, 17=0-3-8
Max Horiz 17=-253 (LC 10)
Max Uplift 9=-143 (LC 12), 17=-144 (LC 12)
Max Grav 9=1586 (LC 18), 17=1565 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1076/164, 2-3=-1035/167, 3-4=-2035/343, 4-5=-1598/367, 5-7=-2239/357, 7-8=-1978/288, 1-17=-1618/298, 8-9=-1546/279
BOT CHORD 16-17=-216/214, 15-16=-309/1989, 13-15=-218/1814, 11-13=-233/1877, 10-11=-306/1924, 9-10=-39/46
WEBS 2-16=0/171, 4-13=-728/187, 5-13=-178/1216, 6-13=-815/195, 6-11=0/392, 7-11=-112/77, 7-10=-831/210, 1-16=-259/1645, 8-10=-289/2102, 4-15=0/403, 3-15=-210/121, 3-16=-1421/305

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 5-3-6, Zone1 5-3-6 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 17 and 143 lb uplift at joint 9.

LOAD CASE(S) Standard

- 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.

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

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

August 25,2026

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

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

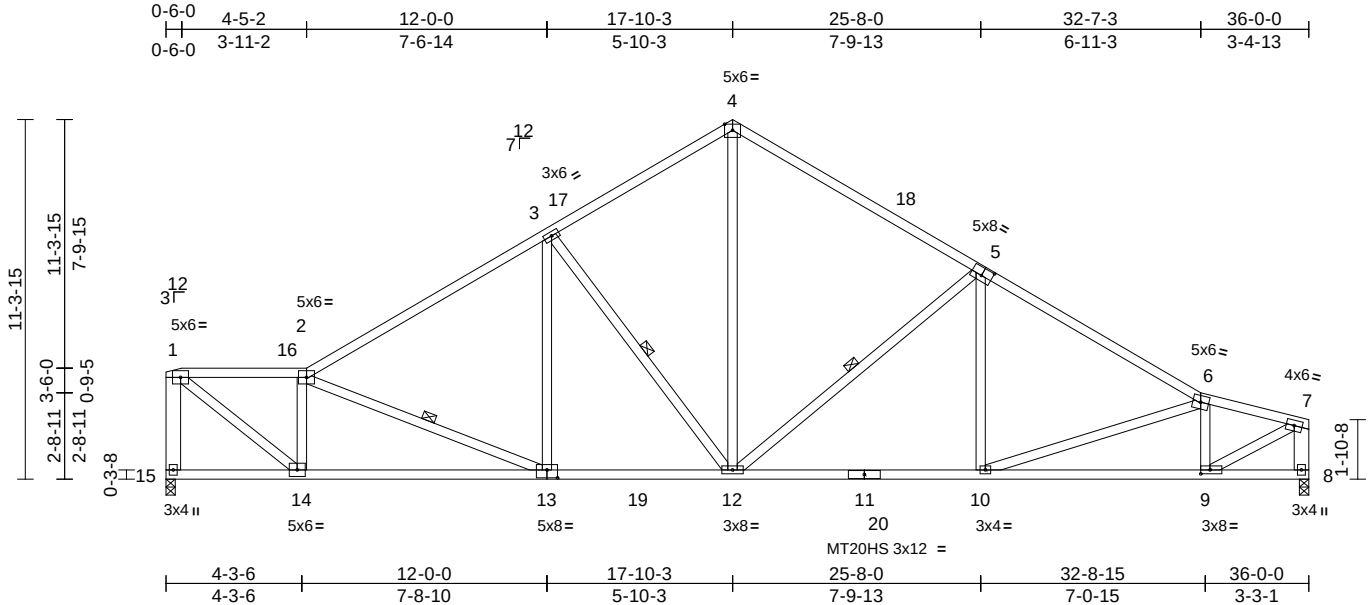
Job	Truss	Truss Type	Qty	Ply	
5636323	A05	Roof Special	2	1	T42292989
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:34

Page: 1

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Scale = 1:72.6

Plate Offsets (X, Y): [5:0-4-0,0-3-0], [9:0-3-8,0-1-8], [13:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.19	10-12	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.35	10-12	>999	240	MT20HS 187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	8	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 230 lb FT = 20%											

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 15-1,8-7:2x6 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, 5-12, 2-13

REACTIONS (size) 8=0-3-8, 15=0-3-8
Max Horiz 15=-260 (LC 10)
Max Uplift 8=-143 (LC 12), 15=-144 (LC 12)
Max Grav 8=1586 (LC 18), 15=1568 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1859/258, 2-3=-2048/318, 3-4=-1601/355, 4-6=-2238/353, 6-7=-1977/285, 1-15=-1522/301, 7-8=-1546/277
BOT CHORD 14-15=-204/227, 12-14=-283/2048, 10-12=-230/1876, 9-10=-304/1924, 8-9=-39/45
WEBS 1-14=-335/2307, 2-14=-1207/296, 3-12=-730/193, 4-12=-178/1229, 5-12=-814/197, 5-10=0/390, 6-10=-113/77, 6-9=-830/209, 7-9=-286/2102, 3-13=0/371, 2-13=-251/71

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=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-9-15, Zone1 3-9-15 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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
- 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.
- 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 144 lb uplift at joint 15 and 143 lb uplift at joint 8.

LOAD CASE(S) Standard

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

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 25,2026

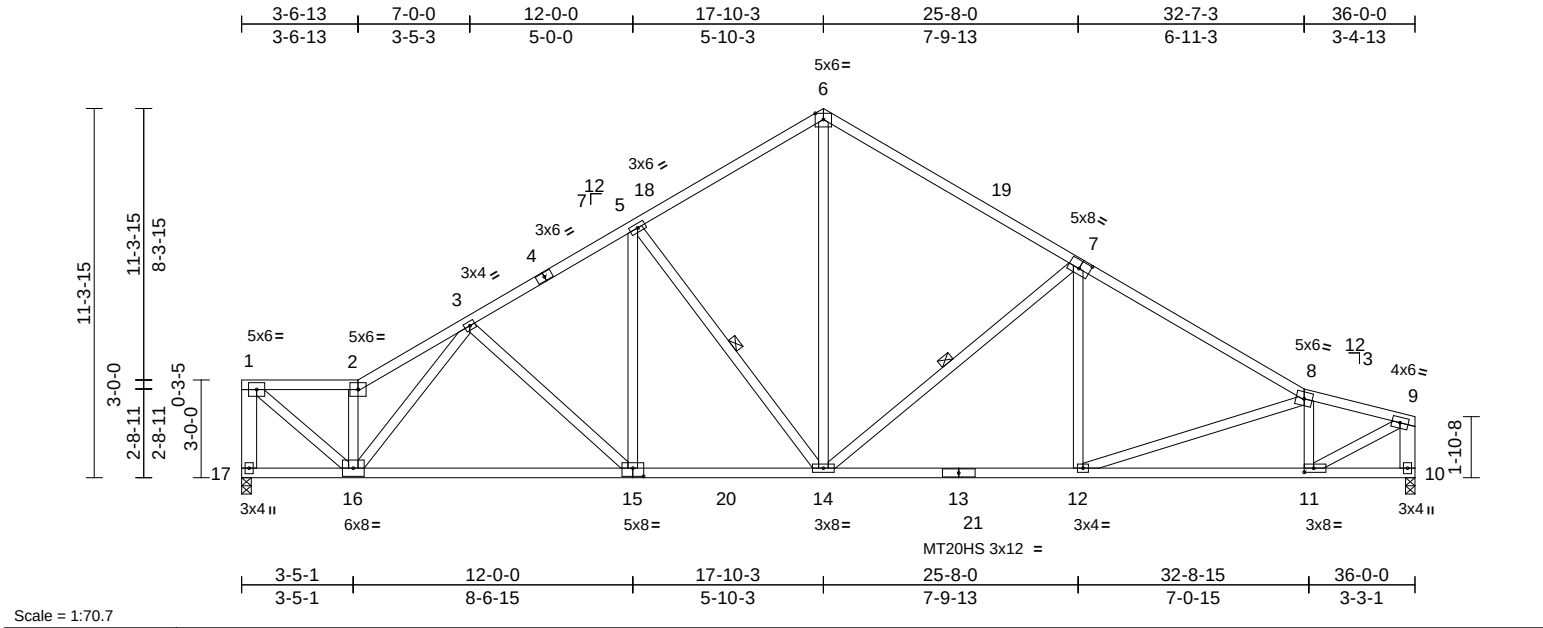
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Job	Truss	Truss Type	Qty	Ply	
5636323	A06	Roof Special	2	1	T42292990
Job Reference (optional)					



Scale = 1:70.7									
Plate Offsets (X, Y): [7:0-4-0,0-3-0], [11:0-3-8,0-1-8], [15:0-4-0,0-3-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.19 12-14	>999	360
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.37 15-16	>999	240
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.09 10	n/a	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS					
Weight: 233 lb FT = 20%									

- LUMBER**
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 17-1,10-9:2x6 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 5-14, 7-14

REACTIONS (size) 10=0-3-8, 17=0-3-8
Max Horiz 17=-253 (LC 10)
Max Uplift 10=-143 (LC 12), 17=-144 (LC 12)
Max Grav 10=1585 (LC 18), 17=1574 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-17=-1565/276, 1-2=-1775/220, 2-3=-2154/303, 3-5=-2015/333, 5-6=-1592/353, 6-8=-2236/353, 8-9=-1976/285, 9-10=-1545/277
BOT CHORD 16-17=-210/226, 14-16=-277/1985, 12-14=-229/1877, 11-12=-303/1925, 10-11=-39/45
WEBS 1-16=-294/2267, 2-16=-1209/248, 5-15=0/462, 5-14=-707/177, 7-12=0/391, 8-12=-113/78, 8-11=-830/209, 9-11=-286/2101, 6-14=-167/1203, 7-14=-813/195, 3-15=-246/103, 3-16=-82/56

- 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=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-6-13, Zone1 3-6-13 to 17-10-3, Zone2 17-10-3 to 22-11-4, Zone1 22-11-4 to 35-9-4 zone; cantilever left and 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.
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 17 and 143 lb uplift at joint 10.

LOAD CASE(S) Standard

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Date:

August 25,2026

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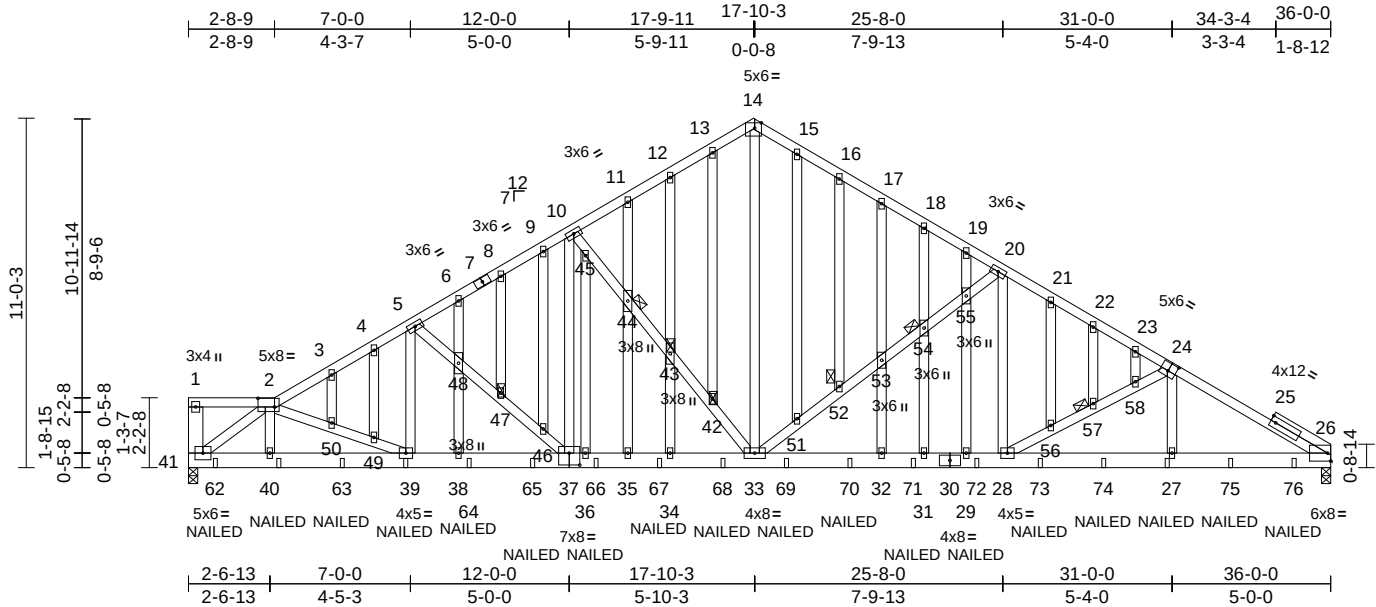
Job	Truss	Truss Type	Qty	Ply	
5636323	A07	Roof Special Girder	2	2	T42292991
Job Reference (optional)					

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

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Scale = 1:72.6

Plate Offsets (X, Y): [2:0-6-4,0-3-4], [14:0-2-8,Edge], [24:0-3-0,0-3-0], [37:0-4-0,0-4-8]

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	0.90	Vert(LL)	-0.18	32	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.36	32-33	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.70	Horz(CT)	0.09	26	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 786 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 41-1:2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s):
42, 43, 44, 47, 52, 54, 57

REACTIONS (size) 26=0-3-8, 41=0-3-8
Max Horiz 41=-233 (LC 6)
Max Uplift 26=-629 (LC 8), 41=-607 (LC 8)
Max Grav 26=4233 (LC 1), 41=4321 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-41=-126/34, 1-2=-198/48, 2-3=-6379/892, 3-4=-6397/916, 4-5=-6319/918, 5-6=-5530/800, 6-8=-5441/810, 8-9=-5452/834, 9-10=-5369/836, 10-11=-4331/691, 11-12=-4260/708, 12-13=-4268/737, 13-14=-4111/731, 14-15=-4154/730, 15-16=-4273/734, 16-17=-4234/706, 17-18=-4291/682, 18-19=-4276/656, 19-20=-4369/665, 20-21=-6046/946, 21-22=-6107/944, 22-23=-6097/919, 23-26=-7051/1047
BOT CHORD 40-41=-711/5261, 39-40=-710/5236, 38-39=-710/5513, 36-38=-710/5513, 35-36=-549/4699, 34-35=-549/4699, 33-34=-549/4699, 32-33=-690/5260, 31-32=-690/5260, 29-31=-690/5260, 28-29=-690/5260, 27-28=-866/6086, 26-27=-867/6097

WEBS
2-41=-6292/873, 2-40=-33/360, 5-48=-1039/207, 47-48=-1067/205, 46-47=-1137/223, 37-46=-1075/217, 10-37=-183/1232, 10-45=-1446/243, 44-45=-1707/285, 43-44=-1633/274, 42-43=-1798/303, 33-42=-1639/271, 14-33=-624/3650, 33-51=-2034/408, 51-52=-2118/419, 52-53=-2024/393, 53-54=-1984/399, 54-55=-1977/389, 20-55=-1982/394, 20-28=-257/1676, 28-56=-954/205, 56-57=-978/209, 57-58=-932/191, 24-58=-955/202, 24-27=-62/648, 5-39=-108/752, 2-50=-7/326, 49-50=-3/283, 39-49=-5/309, 13-42=-41/238, 12-43=-109/38, 34-43=-39/178, 11-44=-20/53, 35-44=-91/27, 36-45=-57/350, 9-46=-10/93, 8-47=-109/29, 6-48=-22/104, 38-48=-33/164, 4-49=-10/80, 3-50=-143/34, 15-51=-19/167, 16-52=-164/43, 17-53=-27/125, 32-53=-40/207, 18-54=-109/41, 31-54=-100/25, 19-55=-29/110, 29-55=-22/104, 21-56=-10/51, 22-57=-100/38, 23-58=-23/50

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; 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 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	T42292991
5636323	A07	Roof Special Girder	2	2	Job Reference (optional)

- 12) * 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.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 607 lb uplift at joint 41 and 629 lb uplift at joint 26.
14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 14-26=-60, 41-59=-20
Concentrated Loads (lb)
Vert: 40=-312 (F), 27=-312 (F), 39=-312 (F), 62=-316 (F), 63=-312 (F), 64=-312 (F), 65=-312 (F), 66=-312 (F), 67=-312 (F), 68=-312 (F), 69=-312 (F), 70=-312 (F), 71=-312 (F), 72=-312 (F), 73=-312 (F), 74=-312 (F), 75=-312 (F), 76=-312 (F)
Trapezoidal Loads (lb/ft)
Vert: 2=-60 (F=0)-to-3=-61 (F=-1), 3=-61 (F=-1)-to-4=-62 (F=-2), 4=-62 (F=-2)-to-5=-63 (F=-3), 5=-63 (F=-3)-to-6=-64 (F=-4), 6=-64 (F=-4)-to-7=-65 (F=-5), 7=-65 (F=-5)-to-8=-65 (F=-5), 8=-65 (F=-5)-to-9=-66 (F=-6), 9=-66 (F=-6)-to-10=-67 (F=-7), 10=-67 (F=-7)-to-11=-68 (F=-8), 11=-68 (F=-8)-to-12=-69 (F=-9), 12=-69 (F=-9)-to-13=-70 (F=-10), 13=-70 (F=-10)-to-14=-71 (F=-11)

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

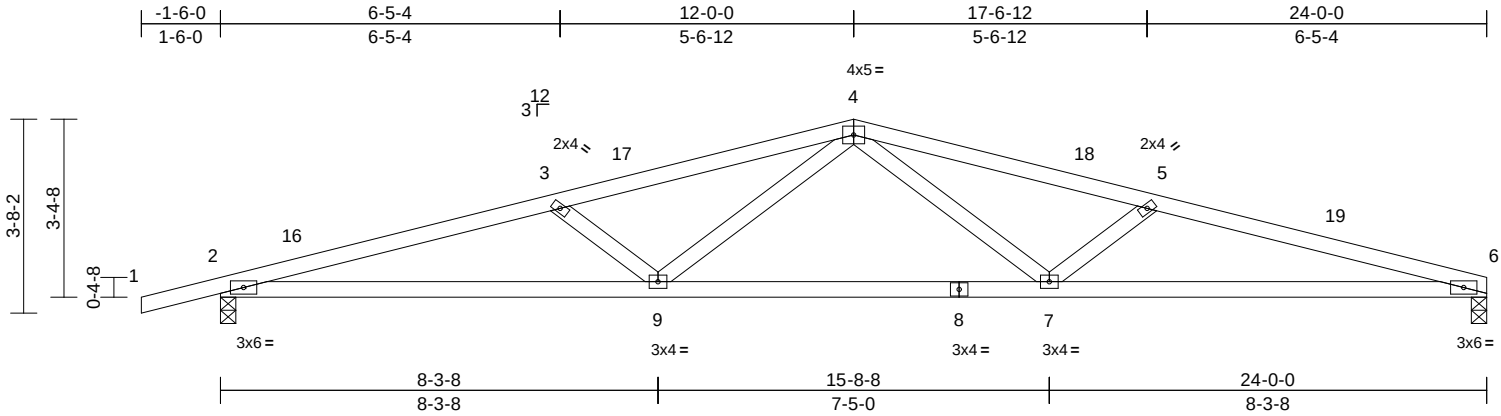
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Job	Truss	Truss Type	Qty	Ply	
5636323	B01	Common	6	1	T42292992
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:34
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Page: 1



Scale = 1:43.7

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	0.49	0.25	7-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.41	7-9	>706	240	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.08	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
										Weight: 96 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-2-10 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=50 (LC 8)
Max Uplift 2=-390 (LC 8), 6=-332 (LC 9)
Max Grav 2=1053 (LC 1), 6=957 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-2854/1263, 3-4=-2514/1154, 4-5=-2531/1174, 5-6=-2870/1275
BOT CHORD 2-9=-1191/2735, 7-9=-788/1872, 6-7=-1191/2760
WEBS 4-7=-333/727, 5-7=-470/204, 4-9=-321/706, 3-9=-459/202

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 12-0-0, Zone2 12-0-0 to 16-2-15, Zone1 16-2-15 to 24-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 6 and 390 lb uplift at joint 2.

LOAD CASE(S) Standard

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

August 25,2026

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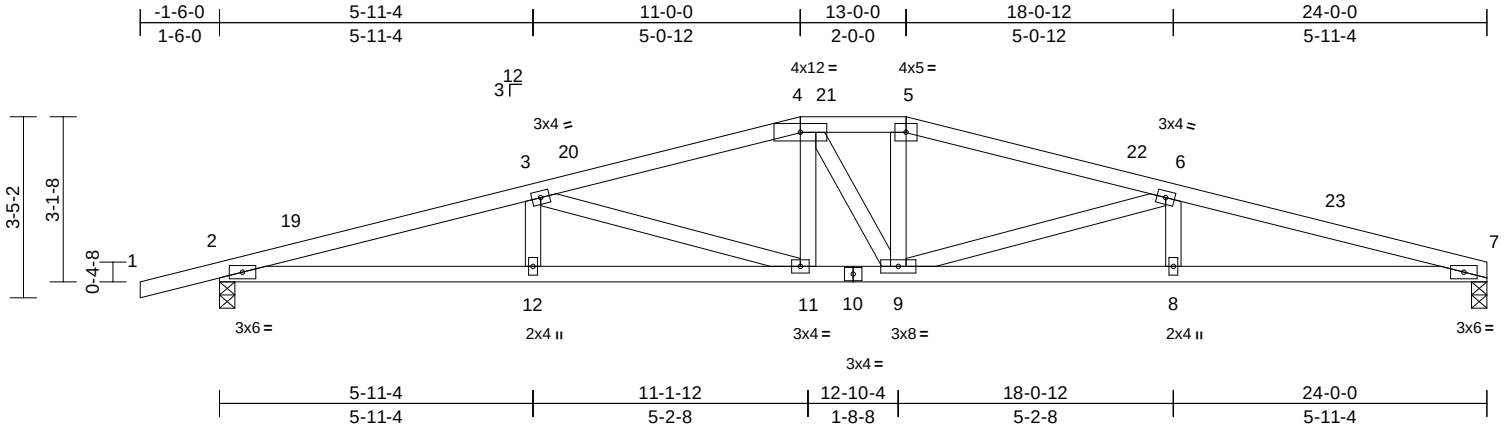
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5636323	B02	Hip	1	1	T42292993

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:34

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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	0.42	Vert(LL)	0.24	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.39	11-12	>743	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 106 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-2-8 oc bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8
Max Horiz 2=47 (LC 8)
Max Uplift 2=-387 (LC 8), 7=-340 (LC 9)
Max Grav 2=1053 (LC 1), 7=957 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-2898/1339, 3-4=-2126/1018, 4-5=-2042/1009, 5-6=-2128/1012, 6-7=-2930/1341
BOT CHORD 2-12=-1273/2777, 11-12=-1273/2777, 9-11=-924/2040, 8-9=-1273/2809, 7-8=-1273/2809
WEBS 3-12=-47/210, 3-11=-810/372, 4-11=-149/310, 4-9=-136/142, 5-9=-172/312, 6-9=-841/381, 6-8=-61/212

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone3 11-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 24-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 340 lb uplift at joint 7 and 387 lb uplift at joint 2.
- LOAD CASE(S)** Standard

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Chesterfield, MO 63017
Date:

August 25,2026

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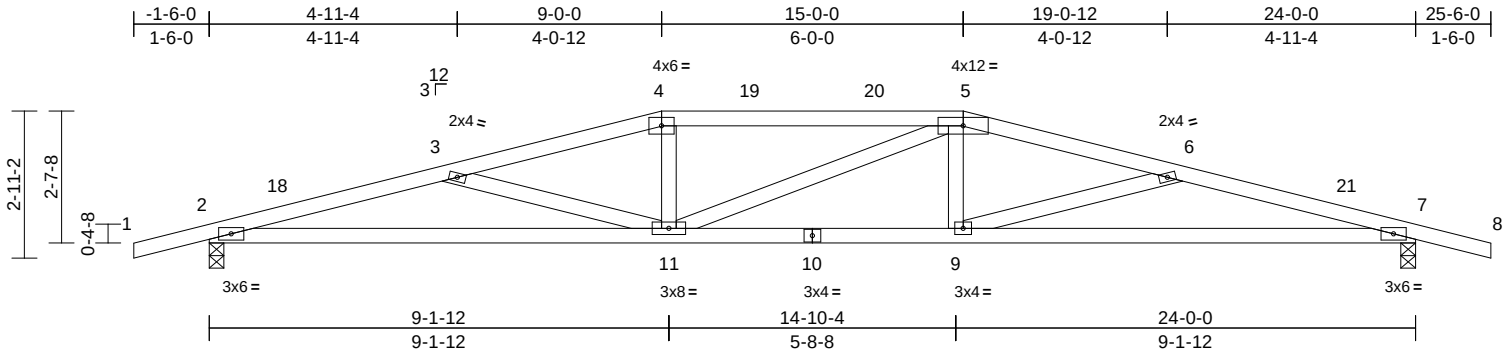
Job	Truss	Truss Type	Qty	Ply	
5636323	B03	Hip	1	1	T42292994
Job Reference (optional)					

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

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Scale = 1:45.8

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	0.72	0.27	11-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.42	9-14	>679		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.09	7	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 105 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-14 oc bracing.

REACTIONS

(size) 2=0-3-8, 7=0-3-8
Max Horiz 2=36 (LC 8)
Max Uplift 2=-394 (LC 8), 7=-394 (LC 9)
Max Grav 2=1050 (LC 1), 7=1050 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-2901/1394, 3-4=-2444/1192, 4-5=-2360/1185, 5-6=-2444/1192, 6-7=-2901/1394, 7-8=0/22
BOT CHORD 2-11=-1316/2788, 9-11=-1097/2360, 7-9=-1321/2788
WEBS 3-11=-475/242, 4-11=-128/349, 5-11=-184/184, 5-9=-136/349, 6-9=-475/242

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-0-0, Zone2 15-0-0 to 19-4-6, Zone1 19-4-6 to 25-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 394 lb uplift at joint 7 and 394 lb uplift at joint 2.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 25,2026

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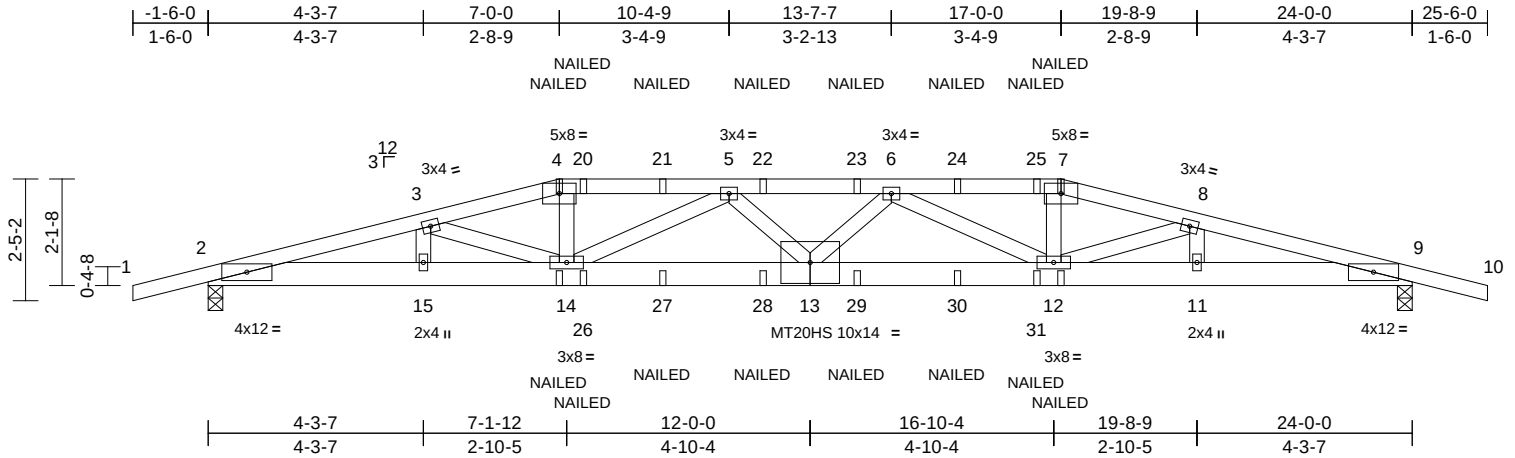
Job	Truss	Truss Type	Qty	Ply	
5636323	B04	Hip Girder	1	1	T42292995
Job Reference (optional)					

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

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Scale = 1:45.9

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	0.43	Vert(LL)	0.49	13	>588	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.75	13	>385	240	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS								
Weight: 128 lb FT = 20%												

LUMBER

TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing.

REACTIONS

(size) 2=0-3-8, 9=0-3-8
Max Horiz 2=30 (LC 4)
Max Uplift 2=-809 (LC 4), 9=-809 (LC 5)
Max Grav 2=1975 (LC 1), 9=1975 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-6424/2562, 3-4=-6585/2653, 4-5=-6480/2625, 5-6=-7562/3045, 6-7=-6480/2624, 7-8=-6585/2653, 8-9=-6424/2563, 9-10=0/22
BOT CHORD 2-15=-2471/6212, 14-15=-2471/6212, 12-14=-2952/7458, 11-12=-2442/6212, 9-11=-2442/6212
WEBS 4-14=-460/1156, 7-12=-460/1156, 3-14=-277/388, 8-12=-277/388, 5-13=-82/270, 5-14=-1181/445, 6-13=-82/270, 6-12=-1181/445, 3-15=-202/105, 8-11=-202/105

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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 809 lb uplift at joint 2 and 809 lb uplift at joint 9.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 4-7=-60, 7-10=-60, 2-9=-20
Concentrated Loads (lb)
Vert: 4=-75 (B), 7=-75 (B), 14=-287 (B), 12=-287 (B), 20=-119 (B), 21=-119 (B), 22=-119 (B), 23=-119 (B), 24=-119 (B), 25=-119 (B), 26=-69 (B), 27=-69 (B), 28=-69 (B), 29=-69 (B), 30=-69 (B), 31=-69 (B)

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

August 25,2026

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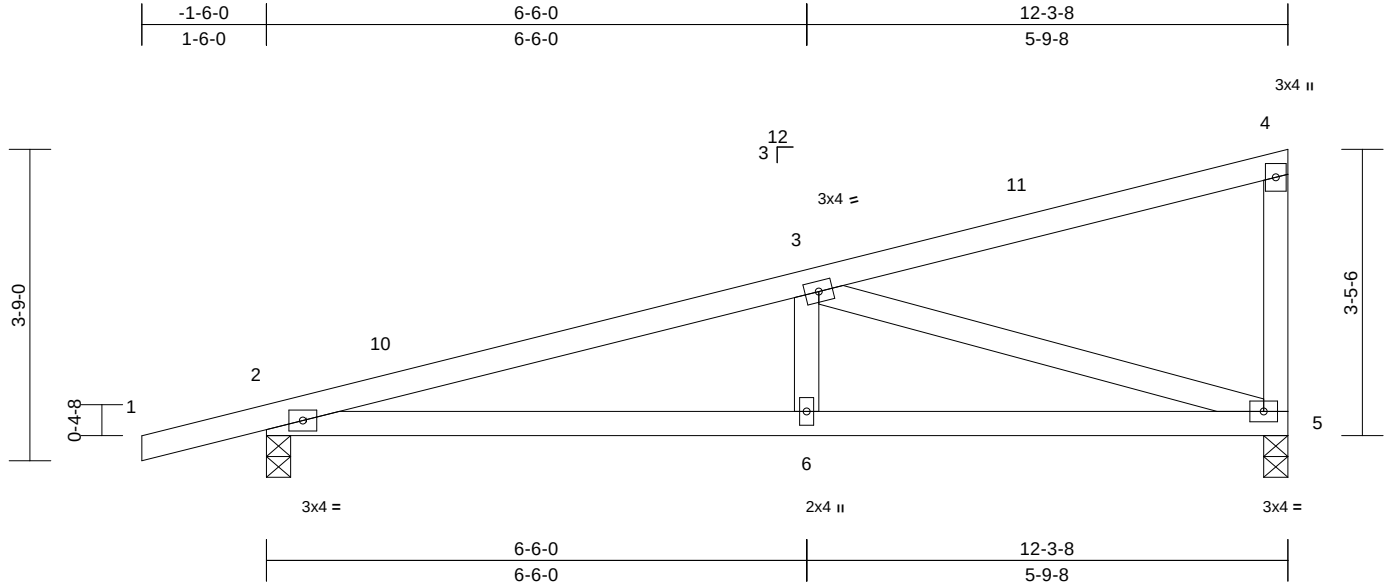
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5636323	C01	Monopitch	10	1	T42292996
Job Reference (optional)					

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

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.08	6-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.11	6-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 54 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-8-10 oc bracing.

REACTIONS

(size) 2=0-3-8, 5=0-3-8
Max Horiz 2=114 (LC 11)
Max Uplift 2=-240 (LC 8), 5=-188 (LC 8)
Max Grav 2=581 (LC 1), 5=480 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1060/612, 3-4=-89/54, 4-5=-137/160
BOT CHORD 2-6=-733/1004, 5-6=-733/1004
WEBS 3-6=-98/268, 3-5=-1021/701

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 240 lb uplift at joint 2 and 188 lb uplift at joint 5.

LOAD CASE(S) Standard

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Date:

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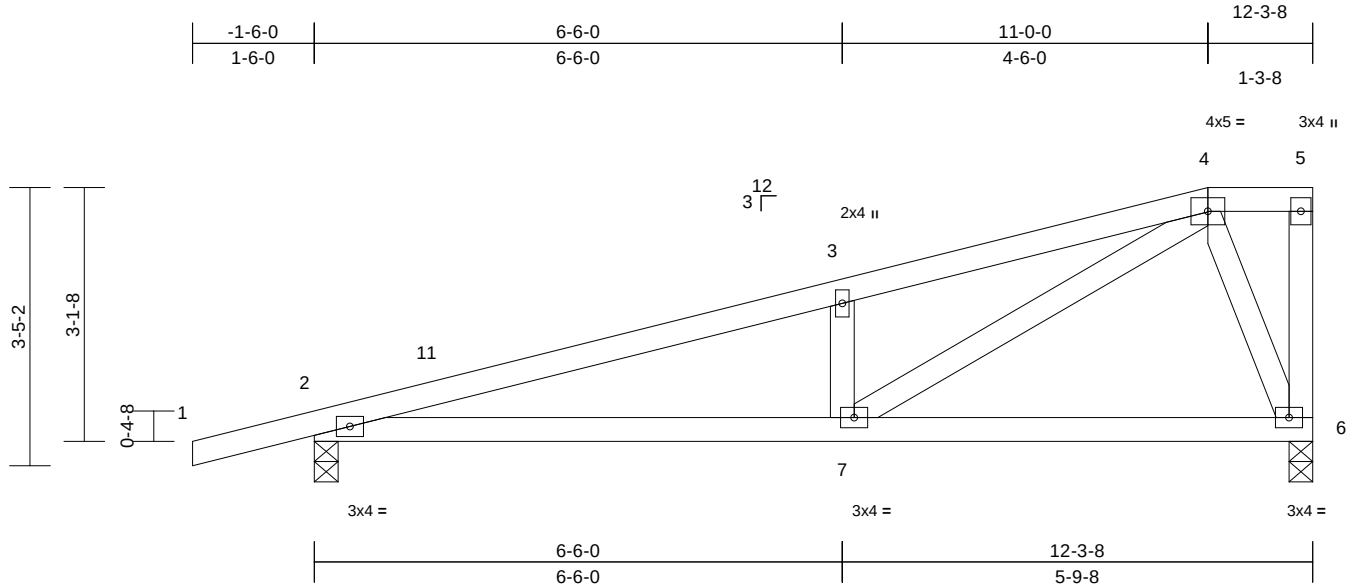
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5636323	C02	Half Hip	1	1	T42292997
Job Reference (optional)					

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

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	0.08	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.12	7-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 6-7-13 oc bracing.	
REACTIONS		(size)
		2=0-3-8, 6=0-3-8
		Max Horiz 2=104 (LC 11)
		Max Uplift 2=-240 (LC 8), 6=-177 (LC 8)
		Max Grav 2=581 (LC 1), 6=480 (LC 1)
FORCES		(lb) - Maximum Compression/Maximum Tension
TOP CHORD		1-2=0/22, 2-3=-1053/602, 3-4=-1057/673, 4-5=-54/61, 5-6=-29/28
BOT CHORD		2-7=-744/987, 6-7=-181/181
WEBS		3-7=-356/256, 4-6=-458/380, 4-7=-666/952

- 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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone3 11-0-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 240 lb uplift at joint 2 and 177 lb uplift at joint 6.
- LOAD CASE(S)** Standard

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

August 25,2026

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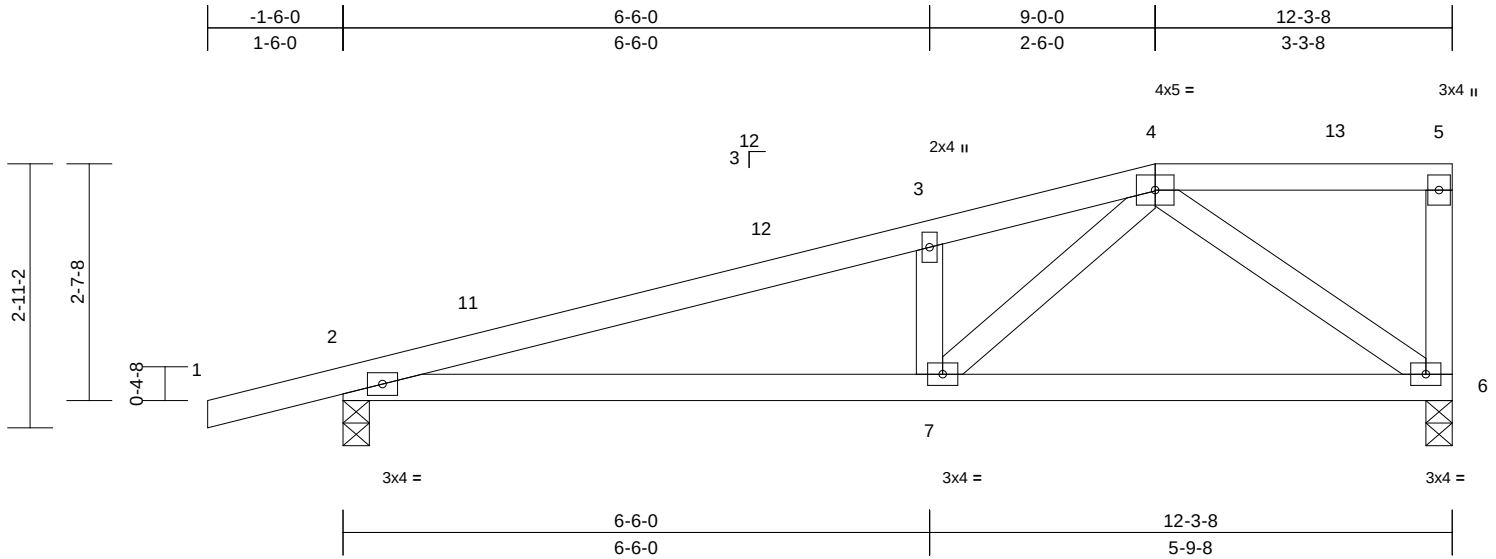
Job	Truss	Truss Type	Qty	Ply	
5636323	C03	Half Hip	1	1	T42292998
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:35

Page: 1

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Scale = 1:25.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	0.08	7-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(LL)	-0.11	7-10	>999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Vert(CT)	0.01	6	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Horz(CT)			n/a		
										Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-8 oc bracing.

REACTIONS

(size) 2=0-3-8, 6=0-3-8
Max Horiz 2=86 (LC 11)
Max Uplift 2=-244 (LC 8), 6=-185 (LC 8)
Max Grav 2=581 (LC 1), 6=480 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1048/679, 3-4=-1044/744, 4-5=-50/59, 5-6=-99/89
BOT CHORD 2-7=-784/982, 6-7=-413/473
WEBS 3-7=-320/244, 4-6=-565/461, 4-7=-507/695

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 244 lb uplift at joint 2 and 185 lb uplift at joint 6.

LOAD CASE(S) Standard

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

August 25,2026

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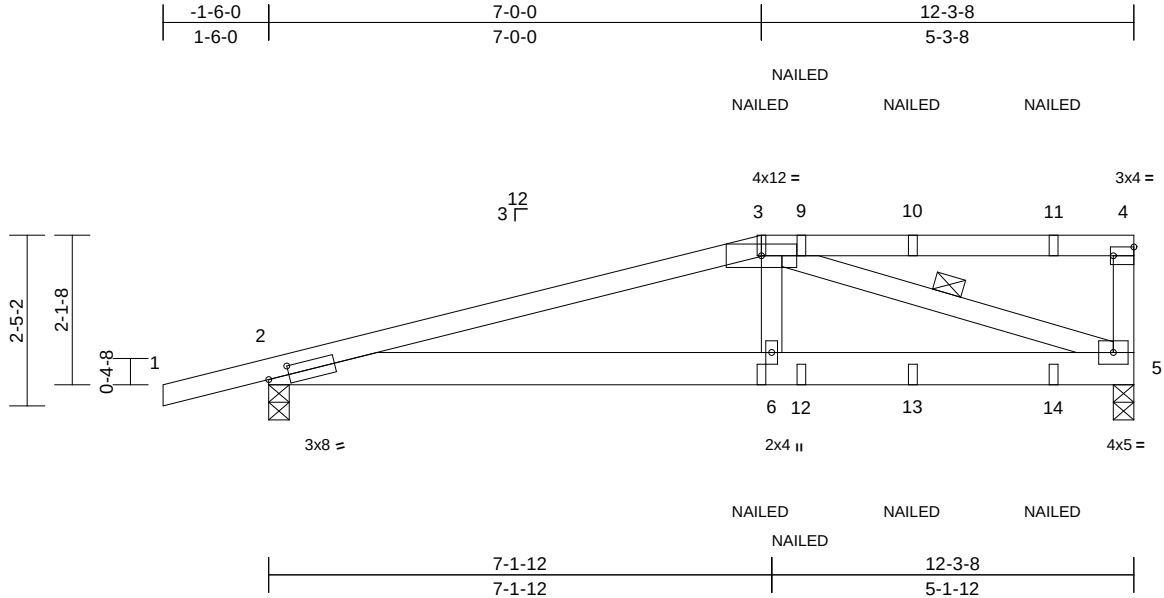
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Job	Truss	Truss Type	Qty	Ply	
5636323	C04	Half Hip Girder	1	1	T42292999
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,
Run: 25.40 S Jul 9 2026
Print: 25.4.0 S Jul 9 2026
MiTek Industries, Inc. Mon Aug 24 12:51:35
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Page: 1



Scale = 1:32.7											
Plate Offsets (X, Y): [2:0-3-9,0-1-8], [4:Edge,0-1-8]											
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	0.85	Vert(LL)	0.10	6-8	>999	360	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.15	6-8	>972	240	MT20
BCLL	0.0*	Rep Stress Incr	NO	WB	0.45	Horz(CT)	0.03	5	n/a	n/a	244/190
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 61 lb
											FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x6 SP No.2	
WEBS	2x4 SP No.3	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 7-11-5 oc bracing.	
WEBS	1 Row at midpt	3-5
REACTIONS		
(size)	2=0-3-8, 5=0-3-8	
Max Horiz	2=67 (LC 24)	
Max Uplift	2=-368 (LC 4), 5=-460 (LC 4)	
Max Grav	2=863 (LC 1), 5=1123 (LC 1)	
FORCES		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/22, 2-3=-2124/865, 3-4=-156/79, 4-5=-329/139	
BOT CHORD	2-6=-826/2026, 5-6=-845/2072	
WEBS	3-6=-232/669, 3-5=-2030/843	

- 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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 368 lb uplift at joint 2 and 460 lb uplift at joint 5.
 - "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 6=-287 (B), 3=-75 (B), 9=-119 (B), 10=-119 (B), 11=-119 (B), 12=-69 (B), 13=-69 (B), 14=-69 (B)

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Chesterfield, MO 63017
Date:

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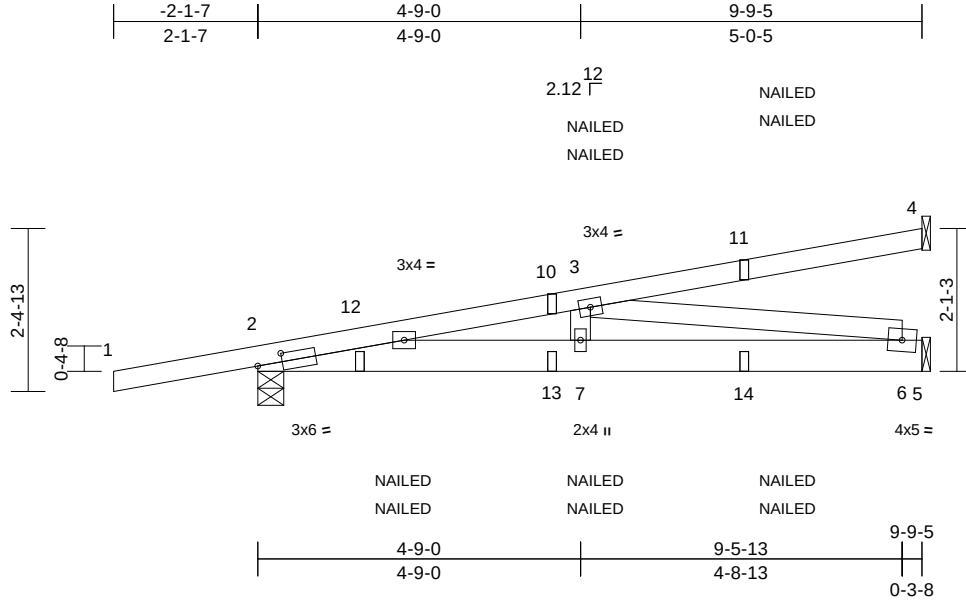
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5636323	HJ01	Diagonal Hip Girder	3	1	T42293000
Job Reference (optional)					

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

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Page: 1



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	0.07	6-7	>999	360	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.10	6-7	>999	240	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
Weight: 48 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-3 oc bracing.

REACTIONS (size) 2=0-4-9, 4= Mechanical, 5= Mechanical
Max Horiz 2=83 (LC 4)
Max Uplift 2=-324 (LC 4), 4=-71 (LC 4), 5=-140 (LC 4)
Max Grav 2=521 (LC 1), 4=159 (LC 1), 5=315 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-1270/551, 3-4=-37/23
BOT CHORD 2-7=-587/1233, 6-7=-587/1233, 5-6=0/0
WEBS 3-7=-49/199, 3-6=-1252/596

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 4, 324 lb uplift at joint 2 and 140 lb uplift at joint 5.
- 8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 11=-75 (F=-38, B=-38), 12=62 (F=31, B=31), 13=-12 (F=-6, B=-6), 14=-66 (F=-33, B=-33)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5636323	HJ02	Roof Special Girder	2	1	
					Job Reference (optional)

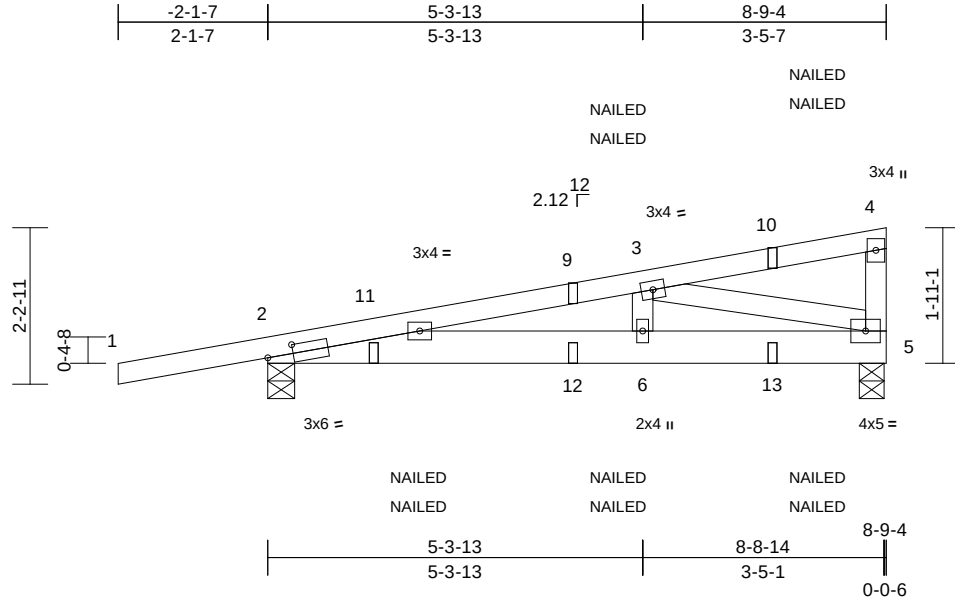
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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Scale = 1:32.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.04	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	6-8	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 44 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-4-9, 5=0-4-3

Max Horiz 2=63 (LC 5)
 Max Uplift 2=-303 (LC 4), 5=-192 (LC 4)
 Max Grav 2=467 (LC 1), 5=442 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-878/397, 3-4=-40/23, 4-5=-118/48
 BOT CHORD 2-6=-398/841, 5-6=-398/841
 WEBS 3-6=-59/184, 3-5=-874/427

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 5 and 303 lb uplift at joint 2.
- 8) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 2-5=-20
 Concentrated Loads (lb)
 Vert: 10=-75 (F=-38, B=-38), 11=62 (F=31, B=31), 12=-12 (F=-6, B=-6), 13=-66 (F=-33, B=-33)

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 Chesterfield, MO 63017
 Date:

August 25,2026

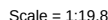
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LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2 and 33 lb uplift at joint 4.

LOAD CASE(S) Standard

REACTIONS (size) 2=0-3-8, 4= Mechanical
 Max Horiz 2=25 (LC 8)
 Max Uplift 2=-114 (LC 8), 4=-33 (LC 1)
 Max Grav 2=198 (LC 1), 4=28 (LC 8)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD $1-2=0/22$, $2-3=-84/52$
BOT CHORD $2-4=-51/88$

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.

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August 25, 2026

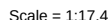


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

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

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:35 Page: 1
ID:4rR1O4YkppvugW1S7zk0WWykf?W-RfC?PsB70Hg3NSaPantL8w3ulTXbGKwRCDoi7J4zJC?f



LUMBER		5) * 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. 6) Refer to girder(s) for truss to truss connections. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 3, 112 lb uplift at joint 2 and 12 lb uplift at joint 4.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS	(size) 2=0-3-8, 3= Mechanical, 4= Mechanical Max Horiz 2=40 (LC 8) Max Uplift 2=-112 (LC 8), 3=-24 (LC 8), 4=-12 (LC 9) Max Grav 2=230 (LC 1), 3=63 (LC 1), 4=48 (LC 3)	LOAD CASE(S) Standard
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/22, 2-3=-91/29	
BOT CHORD	2-4=-26/74	

- ## NOTES
- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 -1.6-0 to 1.6-0,
 Zone1 1.6-0 to 2-11.4 zone; cantilever left and right
 exposed ; end vertical left and right exposed; porch left
 and right exposed; C-C for members and forces &
 MWFRS for reactions shown; Lumber DOL=1.60 plate
 grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord
 live load nonconcurrent with any other live loads.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 25, 2026



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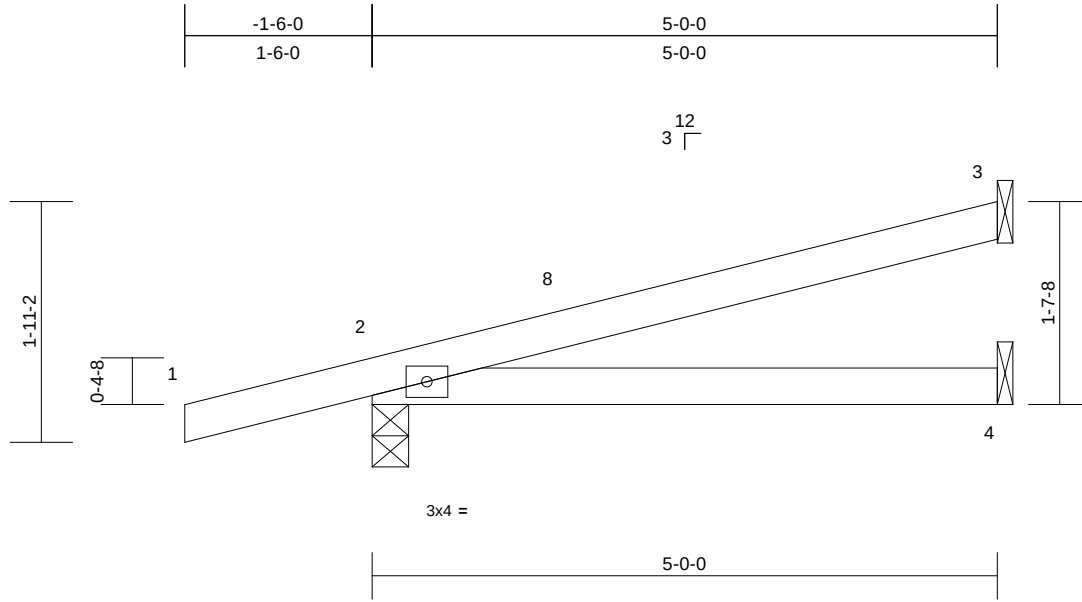
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	
5636323	J03	Jack-Open	10	1	T42293004
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:35
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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	0.29	Vert(LL)	0.05	4-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=56 (LC 8)
Max Uplift 2=-135 (LC 8), 3=-49 (LC 8), 4=-23 (LC 8)
Max Grav 2=301 (LC 1), 3=122 (LC 1), 4=88 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-74/31
BOT CHORD 2-4=-72/62

NOTES

- 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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 3, 135 lb uplift at joint 2 and 23 lb uplift at joint 4.

LOAD CASE(S) Standard

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

August 25,2026

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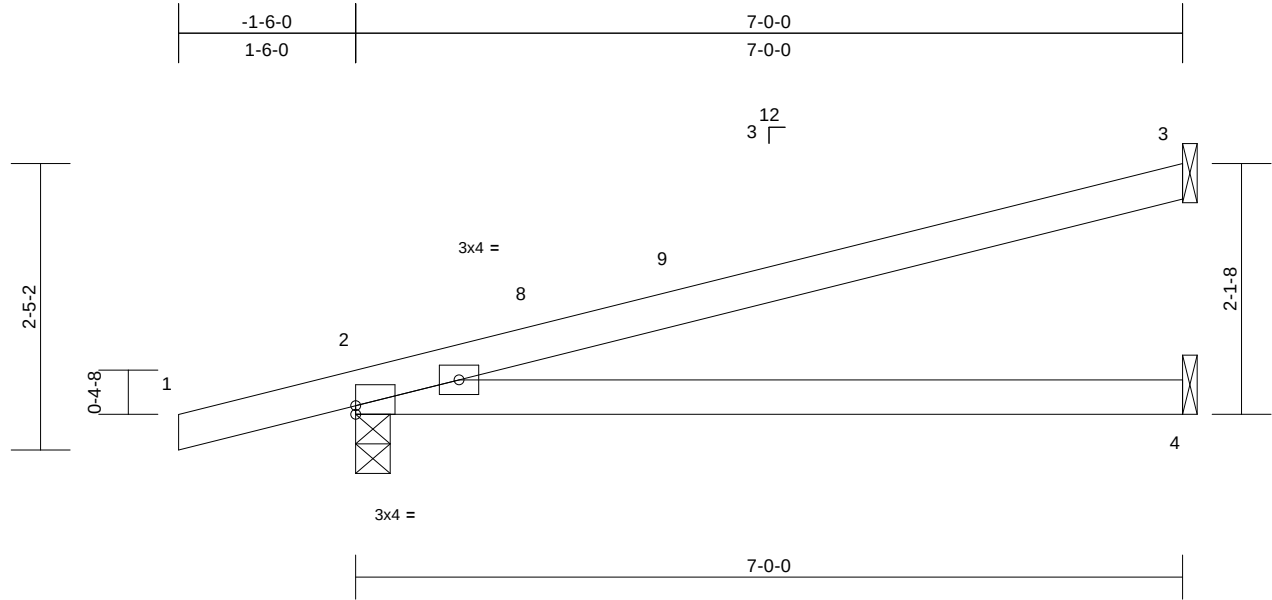
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	
5636323	J04	Jack-Partial	9	1	T42293005
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:36
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Page: 1



Scale = 1:19.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.20	4-7	>416	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.23	4-7	>369	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=71 (LC 8)
Max Uplift 2=-161 (LC 8), 3=-73 (LC 8), 4=-34 (LC 8)
Max Grav 2=377 (LC 1), 3=179 (LC 1), 4=126 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-124/56
BOT CHORD 2-4=-113/104

NOTES

- 1) Designed to ASCE 7-22 basic load combinations for allowable stress design unless otherwise noted.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 3, 161 lb uplift at joint 2 and 34 lb uplift at joint 4.

LOAD CASE(S) Standard

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

August 25,2026

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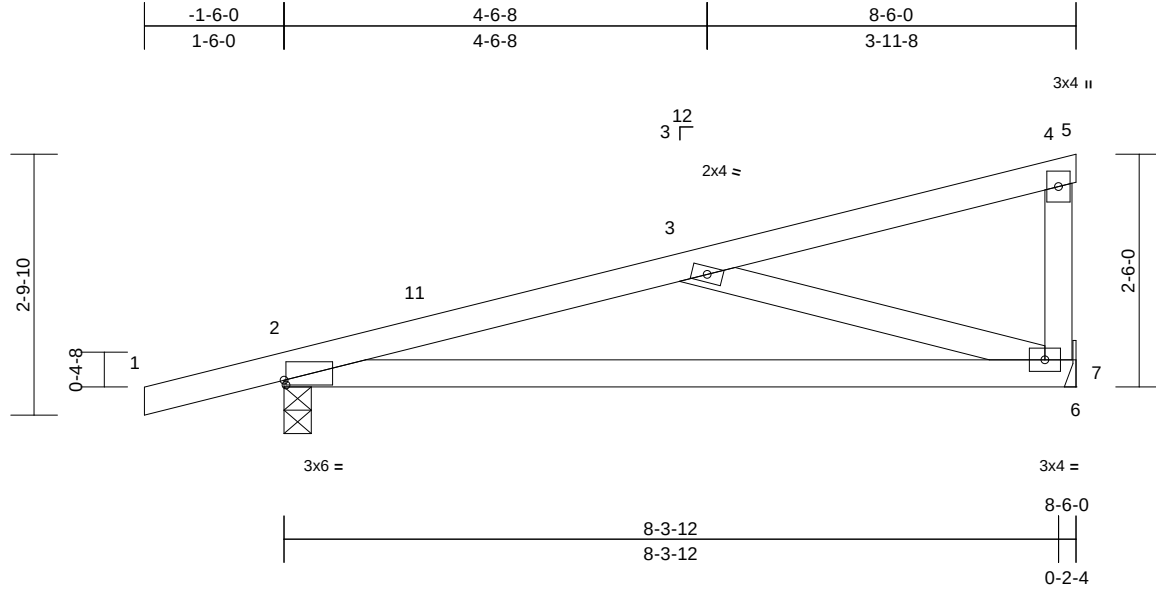
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5636323	J05	Jack-Closed	34	1	T42293006

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:36
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Page: 1



Scale = 1:24.7

Plate Offsets (X, Y): [2:0-0-4,0-0-10]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.12	7-10	>808	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.25	7-10	>395	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 37 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-6 oc bracing.

REACTIONS (size) 2=0-3-8, 7= Mechanical
Max Horiz 2=81 (LC 11)
Max Uplift 2=-102 (LC 8), 7=-45 (LC 8)
Max Grav 2=431 (LC 1), 7=332 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-620/279, 3-4=-64/42, 4-5=-1/0, 4-7=-96/128
BOT CHORD 2-7=-407/597, 6-7=0/0
WEBS 3-7=-620/396

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-6-0 zone; cantilever left and 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 45 lb uplift at joint 7.

LOAD CASE(S) Standard

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

August 25,2026

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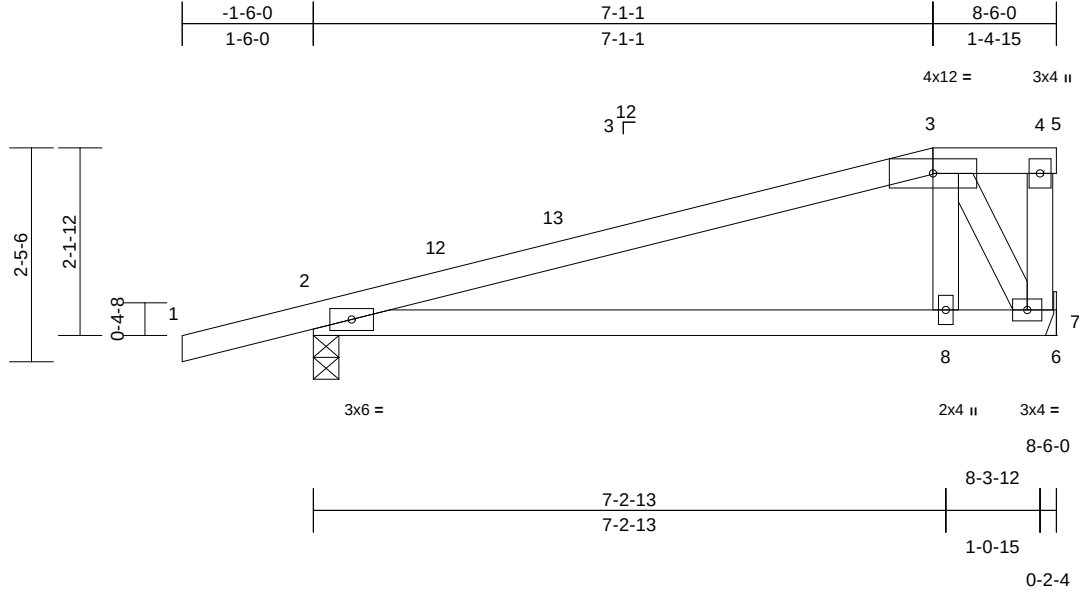
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
5636323	J06	Half Hip	2	1	T42293007

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

Run: 25.40 S Jul 9 2026 Print: 25.4.0 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:36
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Page: 1



Scale = 1:26.4

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	0.64	Vert(LL)	0.09	8-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.17	8-11	>599	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 35 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 7= Mechanical
Max Horiz 2=70 (LC 11)
Max Uplift 2=-104 (LC 8), 7=-52 (LC 8)
Max Grav 2=431 (LC 1), 7=332 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-329/89, 3-4=-32/34, 4-5=0/0, 4-7=-41/49
BOT CHORD 2-8=-157/273, 7-8=-160/297, 6-7=0/0
WEBS 3-8=-38/379, 3-7=-539/251

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-1-1, Zone3 7-1-1 to 8-6-0 zone; cantilever left and 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
- 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 104 lb uplift at joint 2 and 52 lb uplift at joint 7.
- LOAD CASE(S)** Standard

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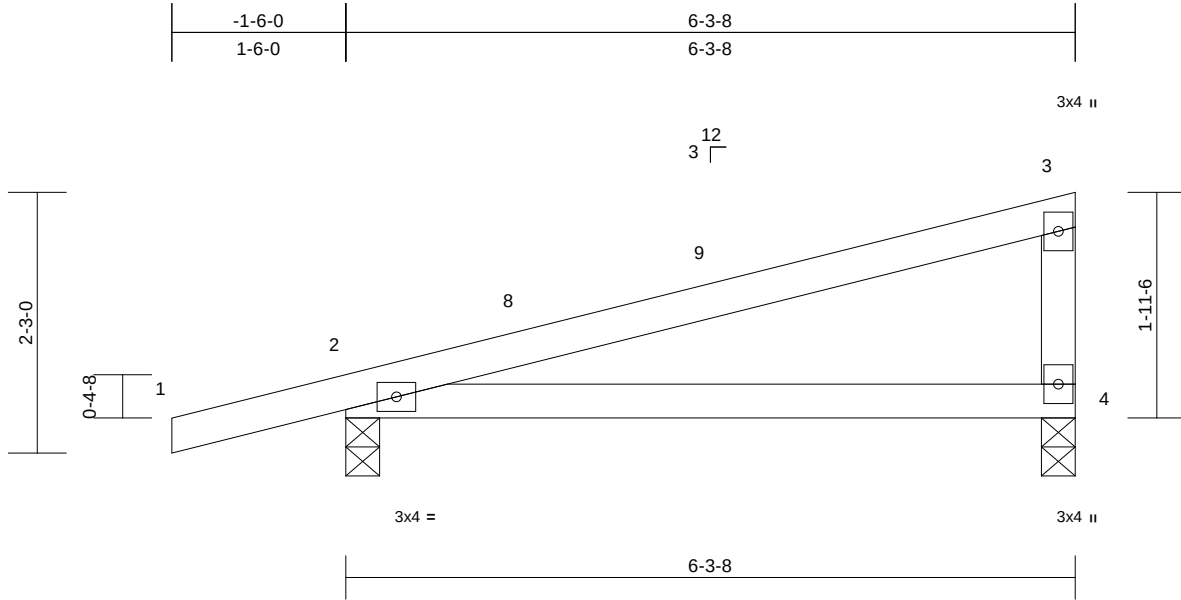
Job	Truss	Truss Type	Qty	Ply	
5636323	J07	Monopitch	23	1	T42293008
Job Reference (optional)					

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

Run: 25.40 S Jul 9 2026 Print: 25.40 S Jul 9 2026 MiTek Industries, Inc. Mon Aug 24 12:51:36

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	0.53	Vert(LL)	0.14	4-7	>520	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.14	4-7	>540	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=61 (LC 11)
Max Uplift 2=-154 (LC 8), 4=-90 (LC 8)
Max Grav 2=347 (LC 1), 4=235 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-104/48, 3-4=-157/243
BOT CHORD 2-4=-122/98

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=6.0psf; h=25ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 4 and 154 lb uplift at joint 2.

LOAD CASE(S) Standard

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

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

August 25,2026

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

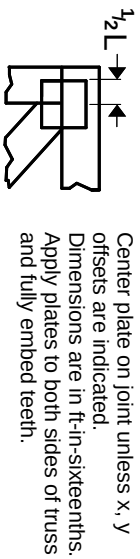
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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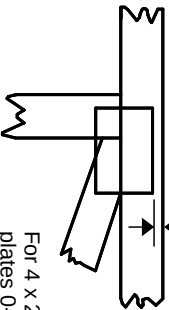
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Symbols

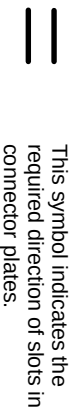
PLATE LOCATION AND ORIENTATION



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

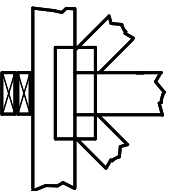
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

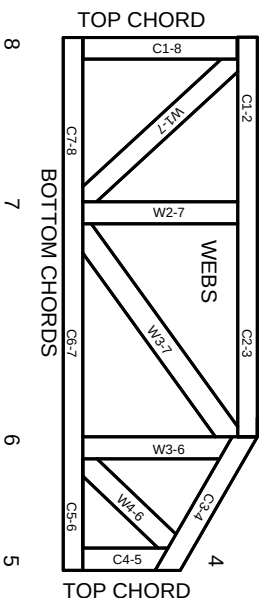
Industry Standards:

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.