



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

RE: 4461126 - LOT 9 FV

Site Information:

Customer Info: YASMANIS REYES Project Name: Custom Model: N/A
Lot/Block: 9 Subdivision: Fairway View
Address: TBD, TBD
City: Columbia Cty State: FL

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

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

Name: License #:
Address:
City: State:

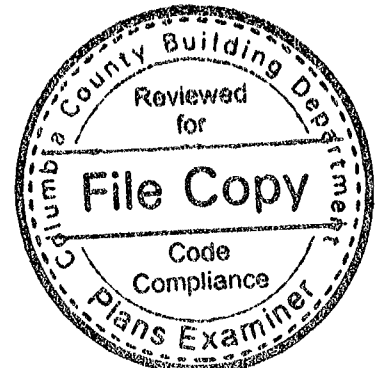
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 36 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	T37977592	CJ01	7/22/25	15	T37977606	T06	7/22/25
2	T37977593	CJ03	7/22/25	16	T37977607	T07	7/22/25
3	T37977594	CJ05	7/22/25	17	T37977608	T08	7/22/25
4	T37977595	EJ01	7/22/25	18	T37977609	T09	7/22/25
5	T37977596	EJ02	7/22/25	19	T37977610	T10	7/22/25
6	T37977597	EJ03	7/22/25	20	T37977611	T11	7/22/25
7	T37977598	HJ05	7/22/25	21	T37977612	T12	7/22/25
8	T37977599	HJ08	7/22/25	22	T37977613	T13	7/22/25
9	T37977600	HJ10	7/22/25	23	T37977614	T14	7/22/25
10	T37977601	T01	7/22/25	24	T37977615	T15	7/22/25
11	T37977602	T02	7/22/25	25	T37977616	T16	7/22/25
12	T37977603	T03	7/22/25	26	T37977617	T17	7/22/25
13	T37977604	T04	7/22/25	27	T37977618	T18	7/22/25
14	T37977605	T05	7/22/25	28	T37977619	T19	7/22/25



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

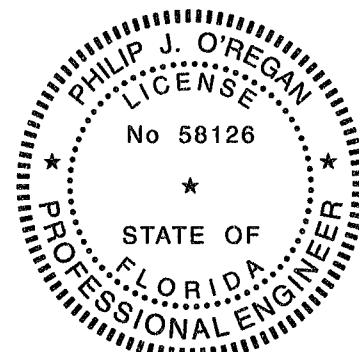
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip

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

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



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

July 22, 2025

ORegan, Philip

1 of 2



RE: 4461126 - LOT 9 FV

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

Site Information:

Customer Info: YASMANIS REYES Project Name: Custom Model: N/A
Lot/Block: 9 Subdivision: Fairway View
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T37977620	T20	7/22/25
30	T37977621	T21	7/22/25
31	T37977622	T22	7/22/25
32	T37977623	T23	7/22/25
33	T37977624	T24	7/22/25
34	T37977625	T25	7/22/25
35	T37977626	T26	7/22/25
36	T37977627	T27	7/22/25

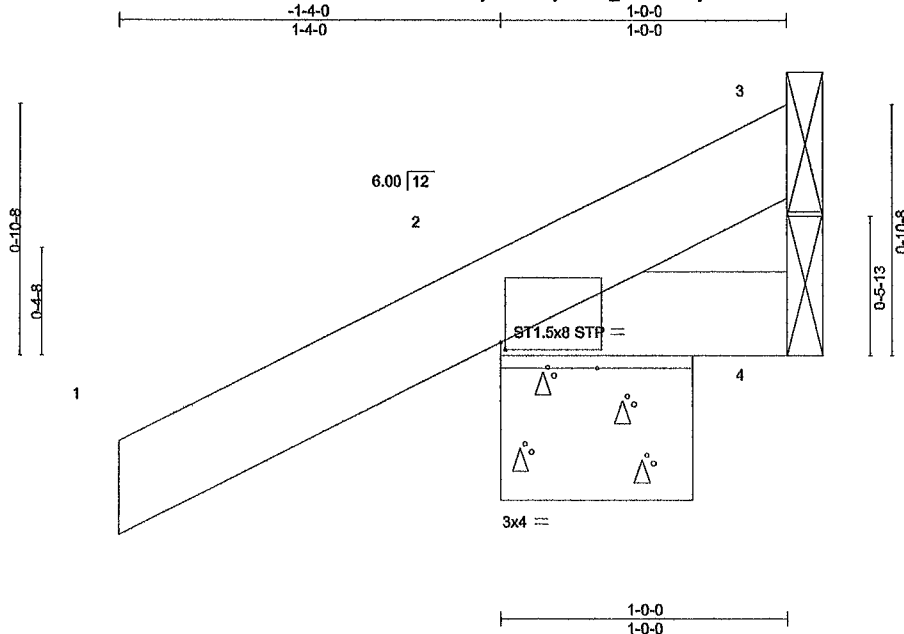
Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977692
4461126	CJ01	Jack-Open	18	1		

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:45 2025 Page 1

ID:j8MwDmkyv3T3w_OvQT0Z5Uyww6m-H8ovQJcniIEmw0s1VJN_uYJ9eCHT9N5KGUz0WVYvsFI

Job Reference (optional)



Scale = 1/8"

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

LOADING (psf)	SPACING-		CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP								
										Weight: 6 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 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=61(LC 12)
Max Uplift 3=3(LC 13), 2=113(LC 12), 4=14(LC 1)
Max Grav 3=10(LC 8), 2=174(LC 1), 4=22(LC 16)

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

NOTES-

- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 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 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (if=lb) 2=113

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:

July 22,2025

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

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

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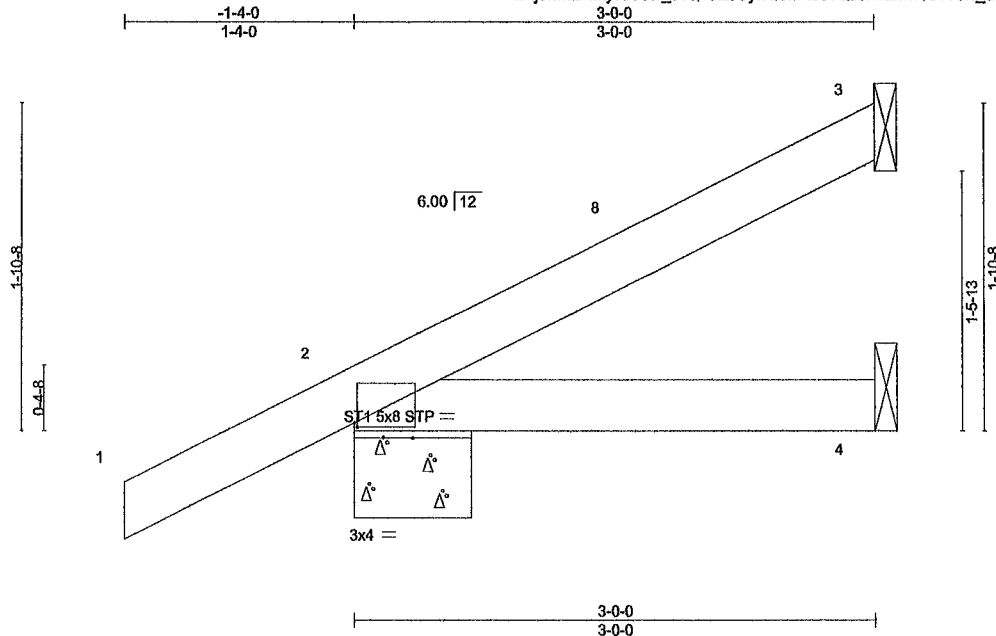
16023 Swingley Ridge Rd
Chesterfield MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977593
4461126	CJ03	Jack-Open	14	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:45 2025 Page 1

ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-l8ovQJcntlEmw0s1VJN_uYJ9eCGi9N5KGUz0WVvysFI



Scale = 1 12.8

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

LOADING (psf)	SPACING-		CSI.		DEFL.	In	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.22		Vert(LL)	0 01	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0 10		Vert(CT)	-0.01	4-7	>999	180		
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: 12 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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 3=68(LC 12), 2=-111(LC 12), 4=-33(LC 9)
Max Grav 3=68(LC 1), 2=216(LC 1), 4=51(LC 3)

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

NOTES-

- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 3, 4 except (lt=lb) 2=111

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:

July 22,2025

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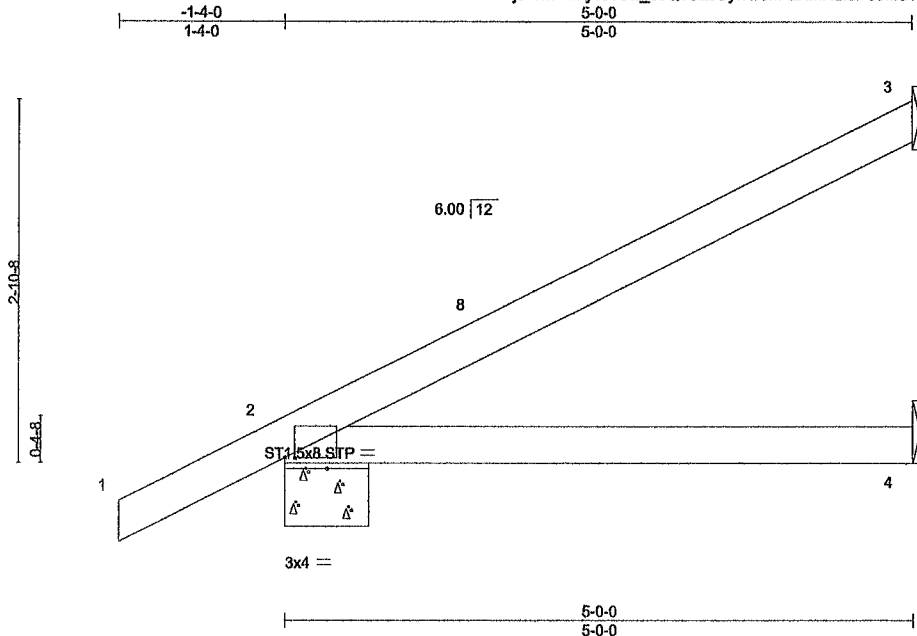
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977594
4461126	CJ05	Jack-Open	10	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:46 2025 Page 1
ID.j8MwDmkYv3T3w_0vQT0Z5Uyww6m-EKMHdfPe0MdYARD31uDRlrFbcWQuqKTV8IZ2xyvsFh



Scale = 1 17.8

Plate Offsets (X,Y)-- [2'-0-0-15,0-0-1]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1 25	TC 0.53	Vert(LL)	0.09	4-7	>648	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.39	Vert(CT)	0.08	4-7	>740	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10 0	Code FBC2023/TP12014	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) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=176(LC 12)
Max Uplift 3=125(LC 12), 2=133(LC 12), 4=58(LC 9)
Max Grav 3=126(LC 1), 2=288(LC 1), 4=90(LC 3)

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

NOTES-
1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpl=0 18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=125, 2=133

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:

July 22,2025

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Chesterfield MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977595
4461126	EJ01	Jack-Partial	36	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23.46 2025 Page 1

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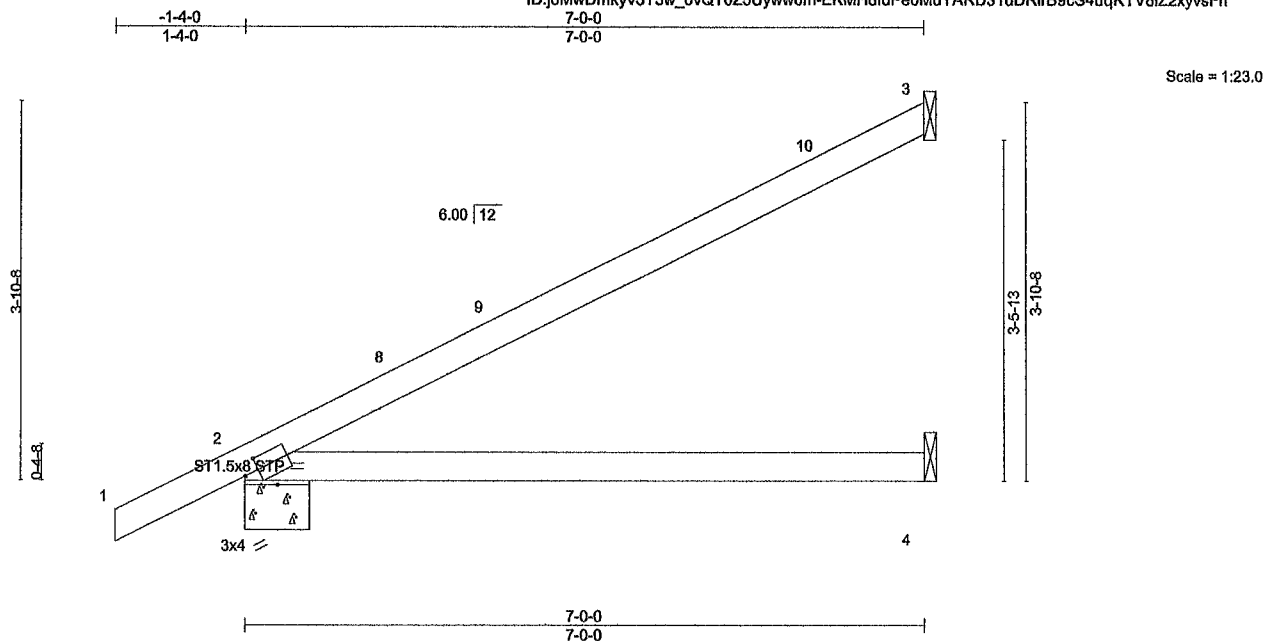


Plate Offsets (X,Y)-- [2 0-1-13,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.81	Vert(LL)	0.30	4-7	>276	240	MT20	244/190
TCDL 10.0	Lumber DOL	1 25	BC 0.66	Vert(CT)	0.26	4-7	>324	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS						Weight: 24 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=225(LC 12)
Max Uplift 3=164(LC 12), 2=164(LC 9), 4=81(LC 9)
Max Grav 3=184(LC 1), 2=365(LC 1), 4=127(LC 3)

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

NOTES-

- 1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C, Encl , GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (if=lb) 3=164, 2=164.

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:

July 22,2025



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MiTek®

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Chesterfield MO 63017
314.434.1200 / MITTEK-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	EJ02	Jack-Open	4	1		T37977596
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,						Job Reference (optional)

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:47 2025 Page 1
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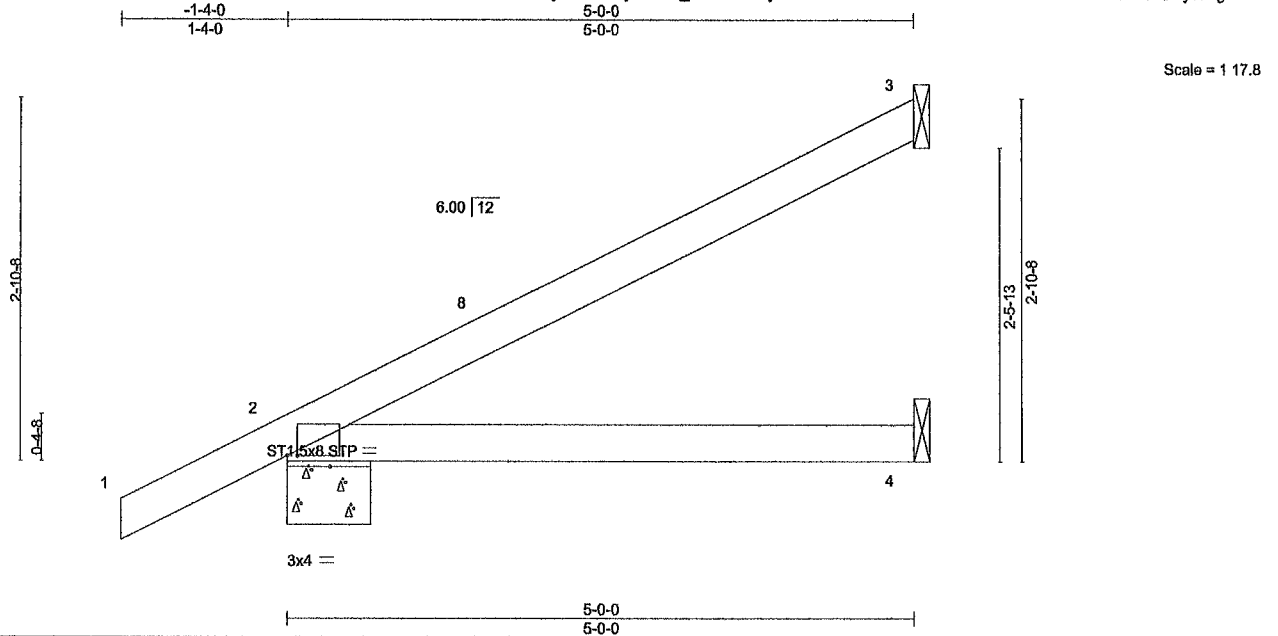


Plate Offsets (X,Y)-- [2'-0"-0'-15,0'-0'-1]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.46	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.06	4-7	>966	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		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) 3=Mechanical, 2=0'-8"-0, 4=Mechanical
Max Horz 2=176(LC 12)
Max Uplift 3=125(LC 12), 2=133(LC 12), 4=10(LC 12)
Max Grav 3=126(LC 1), 2=288(LC 1), 4=90(LC 3)

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

NOTES-

- 1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1'-4"-0 to 1'-8"-0, Zone1 1'-8"-0 to 4'-11"-4 zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (j=i=lb) 3=125, 2=133.

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:

July 22,2025



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

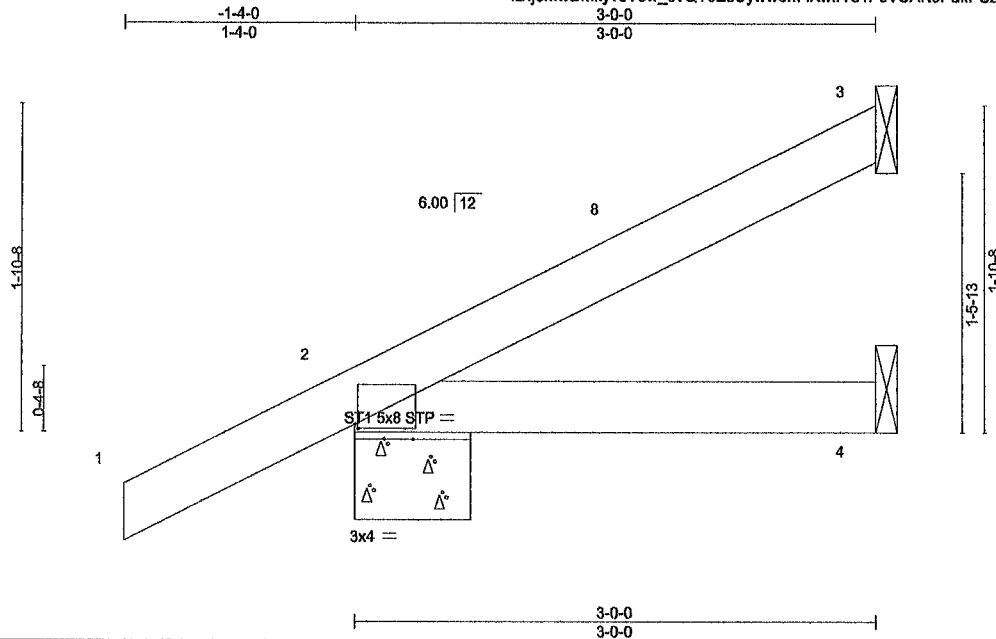
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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	EJ03	Jack-Partial	2	1		T37977597
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,						Job Reference (optional)

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:47 2025 Page 1
ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-lXwlr7d1PJVUAK0PdkPSzzOV70xAdGackoS7bNyvsFg



Scale = 1 12.8

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	0.01	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							
								Weight: 12 lb		FT = 20%	

LUMBER-

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

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) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 3=68(LC 12), 2=111(LC 12), 4=33(LC 9)
Max Grav 3=68(LC 1), 2=216(LC 1), 4=51(LC 3)

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

NOTES-

- 1) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-11-4 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
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (it=lb) 2=111

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Date:

July 22, 2025



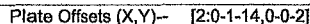
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8,830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:47 2025 Page 1
ID:j8MwDmkyv3T3w_0yQTOZ5Uyww6m-iXwfr?d1PJVUAK0PdKsPzzOUZ0vvdGackoS7bNysFg
4-2-3
4-2-3



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

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=135(LC 25)
Max Uplift 3=-54(LC 8), 2=-159(LC 4), 4=-17(LC 5)
Max Grav 3=95(LC 1), 2=304(LC 1), 4=72(LC 3)

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

NOTES-

- 1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C; Encl , GCp1=0.18, MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=159
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60. 4-5=-20

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on the date indicated here.
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MITek Inc. DBA MITek USA FL Cert 6634
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Date:

July 22, 2025

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977599
4461126	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:48 2025 Page 1
ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-AjU22KegAddKnUbcBRwhWAXYOQ9pMjmqzSBg7qyvsFf

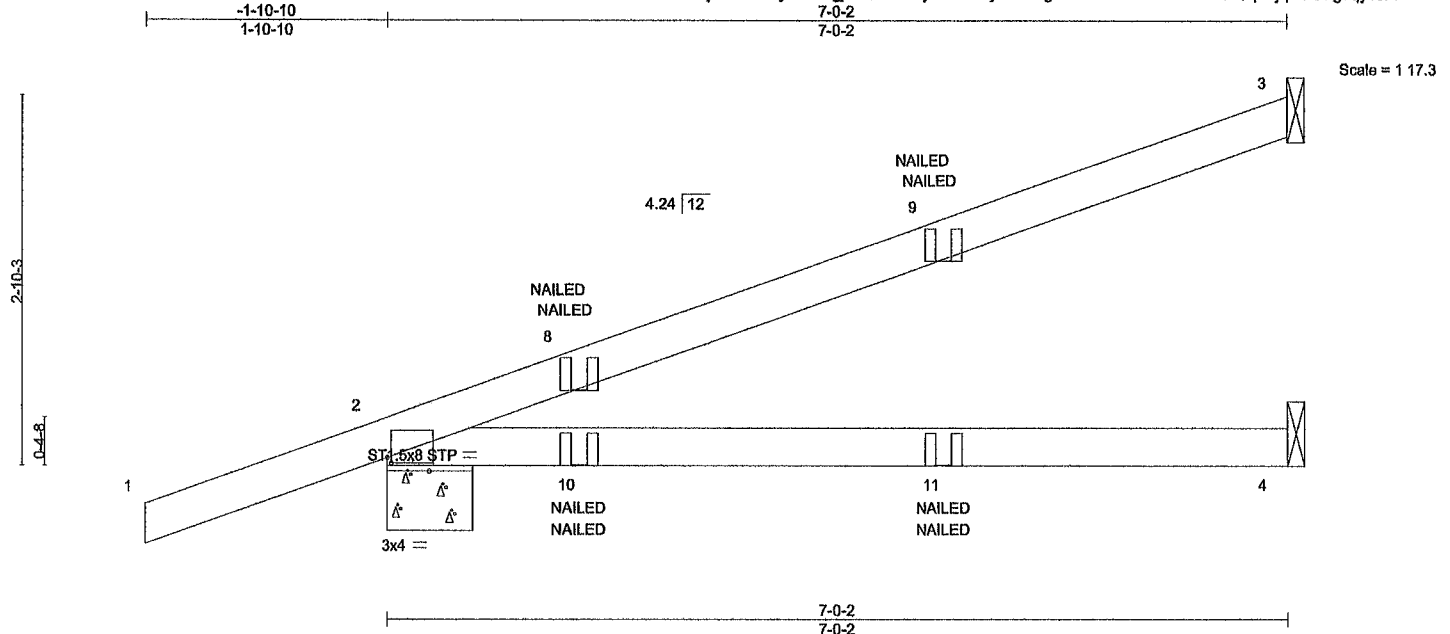


Plate Offsets (X,Y)-- [2 0-0-6,0-0-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.77	Vert(LL)	0.16	4-7	>511	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.23	4-7	>367	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 25 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) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=193(LC 4)
Max Uplift 3=150(LC 8), 2=202(LC 4), 4=41(LC 9)
Max Grav 3=179(LC 1), 2=410(LC 1), 4=128(LC 3)

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

NOTES-

- 1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C; Encl , GCpi=0.18, MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=150, 2=202.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 11=-10(F=-5, B=-5)

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	HJ10	Diagonal Hip Girder	5	1		T37977600

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

8.830 s Jun 11 2025 MITek Industries, Inc. Mon Jul 21 11:23:49 2025 Page 1

ID:BMwDmkv3T3w_0vQT0Z5Uyww6m-ev1QFgllxIBPeAok9Sw2OTkbpZb52svB5xEfGyvsFe

Job Reference (optional)

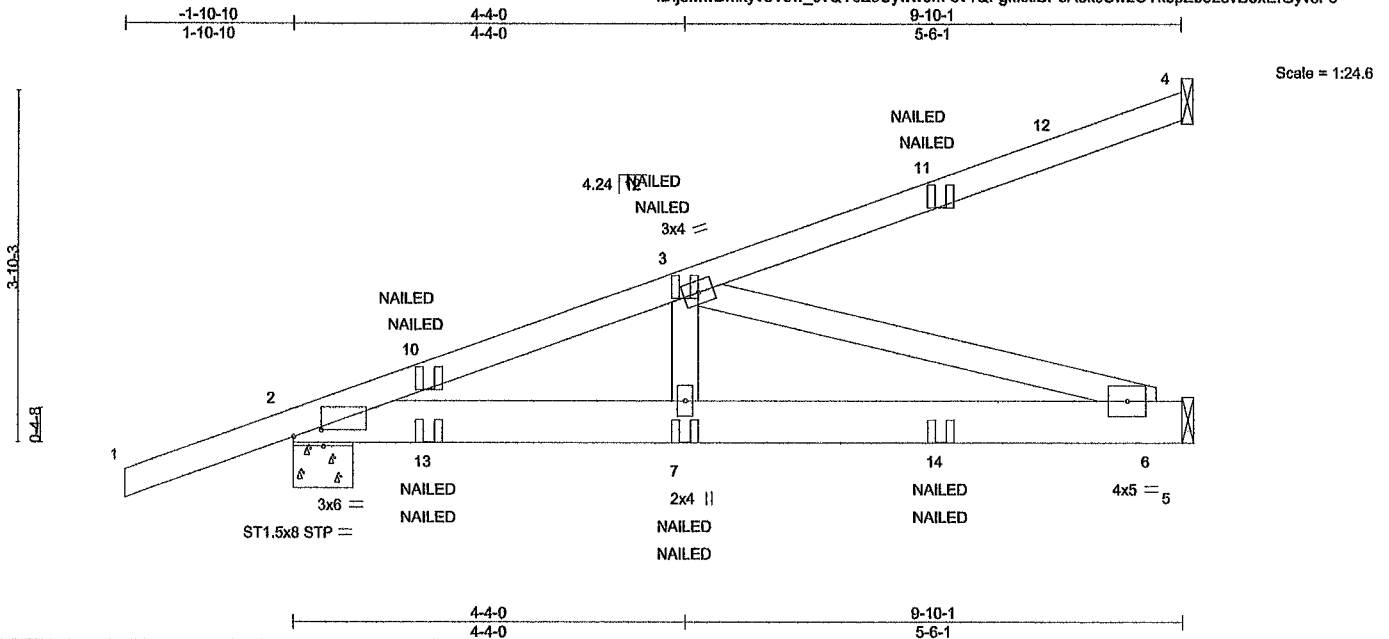


Plate Offsets (X,Y)-- [2.0-3-11,0-0-14]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25		TC 0.67	Vert(LL)	0.06	6-7	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25		BC 0.36	Vert(CT)	-0.05	6-7	>999	180		
BCLL 0 0 *	Rep Stress Incr NO		WB 0.53	Horz(CT)	0.01	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 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-3-4 oc bracing

REACTIONS.

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical
Max Horz 2=243(LC 4)
Max Uplift 4=-154(LC 4), 2=-329(LC 4), 5=-285(LC 5)
Max Grav 4=169(LC 1), 2=560(LC 1), 5=323(LC 1)

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

TOP CHORD 2-3=-905/658
BOT CHORD 2-7=-712/850, 6-7=-712/850
WEBS 3-7=-92/272, 3-6=-886/742

NOTES-

- 1) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpl=0 18, MWFRS (envelope) gable end zone; porch left and right exposed, Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 4=154, 2=329, 5=285
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert. 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert 7=-10(F=-5, B=-5) 11=-82(F=-41, B=-41) 14=-65(F=-33, B=-33)

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

July 22,2025



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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977601
4461126	T01	Hip Girder	1	1		

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

8,830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:49 2025 Page 1

ID:J8MwDmkyv3T3w_0vQT0Z5Uyww6m-ev1QFgflxIBPeAok9Sw2OTmkpVO55ivB5xEfGyvsFe

Job Reference (optional)

Scale = 1:38.6

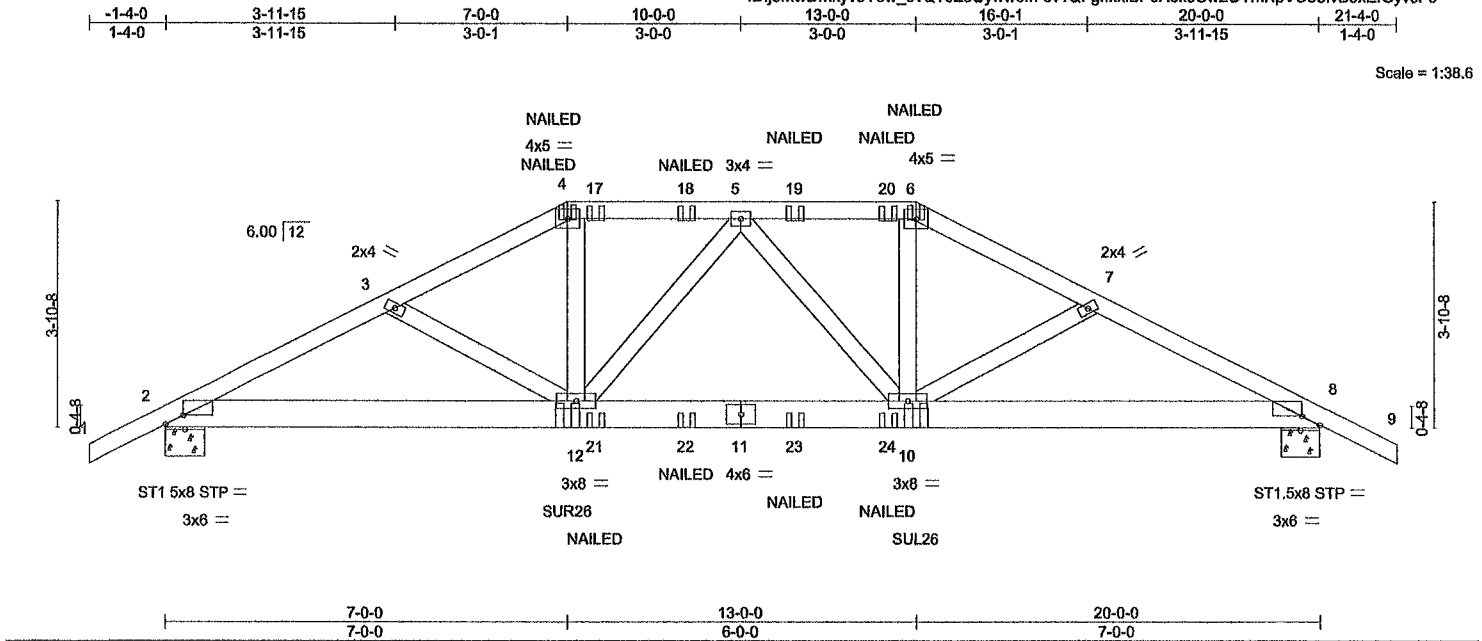


Plate Offsets (X,Y)-- [2:0-3-11,Edge], [8:0-3-11,Edge]		7-0-0		13-0-0		20-0-0	
		7-0-0		6-0-0		7-0-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) 0.21	10-12	>999	240	MT20
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.20	10-12	>999	180	GRIP 244/190
BCLL 0 0 *	Rep Stress Incr NO	WB 0.34	Horz(CT) 0.06	8	n/a	n/a	
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS					Weight: 116 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-8-0, 8=0-8-0
	Max Horz 2=-104(LC 9)
	Max Uplift 2=-1239(LC 8), 8=-1239(LC 9)
	Max Grav 2=1639(LC 1), 8=1639(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3108/2477, 3-4=-2922/2379, 4-5=-2611/2198, 5-6=-2611/2197, 6-7=-2922/2379, 7-8=-3108/2477
BOT CHORD	2-12=-2210/2751, 10-12=-2192/2790, 8-10=-2106/2751
WEBS	3-12=-231/257, 4-12=-713/903, 5-12=-335/268, 6-10=-335/287, 6-10=-713/903, 7-10=-231/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4 2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp C, Encl , GCp=0.18; MWFRS (envelope) gable end zone, Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (if=lb) 2=-1239, 8=1239.
 - Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg to the right, sloping 0.0 deg down.
 - Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 13-0-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") 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	
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	

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

July 22,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV
4461126	T01	Hip Girder	1	1	T37977601
Job Reference (optional)					

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:49 2025 Page 2
ID:j8MwDmkyv3T3w_0vQT0Z5Uyww6m-ev1QFgflxxlBPeAok9Sw2OTmKpVO55ivB5xEfGyvsFe

LOAD CASE(S) Standard
Uniform Loads (plf)
Vert. 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert. 4=-84(B) 6=-84(B) 12=-295(B) 10=-295(B) 17=-124(B) 18=-124(B) 19=-124(B) 20=-124(B) 21=-66(B) 22=-66(B) 23=-66(B) 24=-66(B)

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

July 22,2025

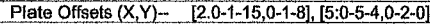

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8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23.50 2025 Page 1
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LUMBER-

TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-8-3 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-8-2 oc bracing
WEBS	2x4 SP No.3		

REACTIONS. (size) 7=0-8-0, 2=0-8-0
Max Horz 2=146(LC 16)
Max Uplift 7=-357(LC 13), 2=-415(LC 12)
Max Grav 7=797(LC 1), 2=883(LC 1)

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

TOP CHORD	2-3=-1358/644, 3-4=-1056/502, 4-5=-891/499, 5-6=-1058/508, 6-7=-1369/645
BOT CHORD	2-10=-587/1190, 8-10=-275/892, 7-8=-514/1204
WEBS	3-10=-581/327, 4-10=-122/299, 5-8=-137/303, 6-8=-365/339

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind ASCE 7-22; Vult=140mph (3-second gust) Vast=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp C, Encl., GCp1=0.18, MWFRS (envelope) gable end zone and C-C Zone3 1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone3 9-0-0 to 11-0-0, Zone2 11-0-0 to 15-4-7, Zone1 15-4-7 to 20-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=357, 2=415.

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977603
4461126	T03	Common	5	1		

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:50 2025 Page 1

ID:j8MwDmkYv3T3w_0vQT0Z5Uyww6m-66boT0gwhET21ol_1sz9bb0yCDrvqW63QlgnBiyvsFd

Job Reference (optional)



Scale = 1:38.5

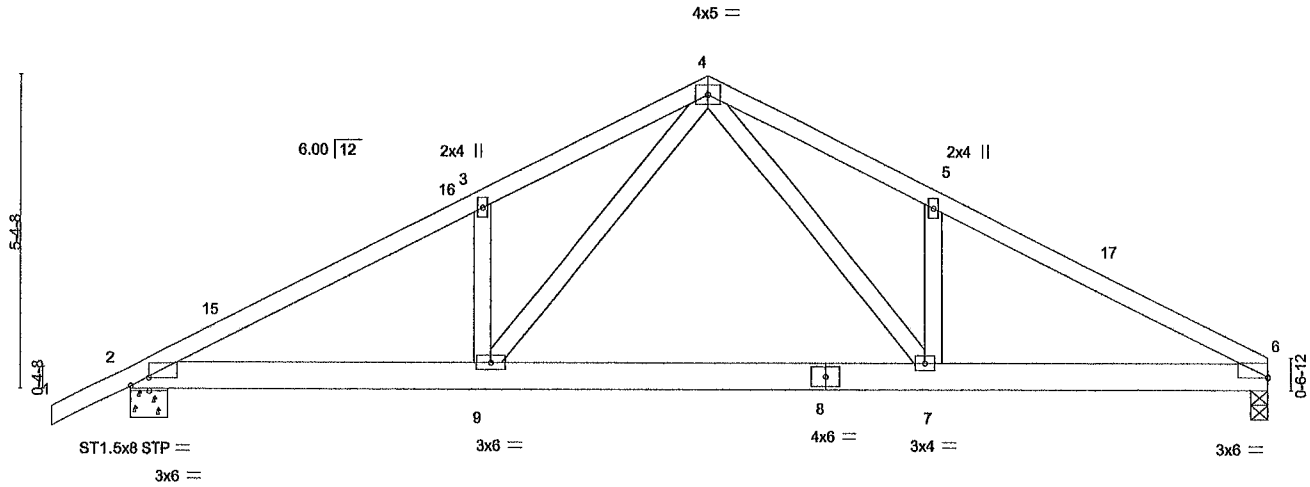


Plate Offsets (X,Y)--	[2:0-3-15,0-1-10], [6:0-0-0,0-0-3]
-----------------------	------------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.61	Vert(LL) 0.15 7-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.46	Vert(CT) -0.22 7-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 107 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 3-11-6 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-7-12 oc bracing

REACTIONS.

(size) 6=0-3-8, 2=0-8-0
Max Horz 2=164(LC 12)
Max Uplift 6=474(LC 13), 2=531(LC 12)
Max Grav 6=1020(LC 1), 2=1096(LC 1)

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

TOP CHORD 2-3=-1934/1095, 3-4=-1921/1247, 4-5=-1841/1214, 5-6=-1863/1080
BOT CHORD 2-9=-888/1666, 7-9=-504/1077, 6-7=-846/1596
WEBS 4-7=-564/866, 5-7=-275/309, 4-9=-625/966, 3-9=-294/319

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C; Encl, GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 1-4-0 to 1-8-0, Zone1 1-8-0 to 10-0-0, Zone2 10-0-0 to 14-0-0, Zone1 14-0-0 to 19-7-8 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (l=lb) 6=474, 2=531
- 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 (plf)
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 7-10=-20

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Date:

July 22,2025



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The diagram illustrates a roof truss system with the following details:

- Dimensions:**
 - Horizontal dimensions at the top: 1-4-0, 3-11-15, 7-0-0, 10-11-12, 14-11-12, 18-11-8, 3-11-12.
 - Horizontal dimensions at the bottom: 7-0-0, 12-11-13, 18-11-8.
 - Vertical dimensions on the left: 3-10-8, 9-4-8.
- Members and Connections:**
 - Top chord members: 14, 15, 5, 16, 6, 17, 18, 7.
 - Bottom chord members: 11, 19, 10, 20, 9, 21, 22, 23, 8.
 - Vertical members: 4, 3, 11, 19, 10, 20, 9, 21, 22, 23, 8.
 - Diagonal members: 2, 3, 4, 5, 6, 7.
 - Connections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24.
- Labels and Notes:**
 - "NAILED" is written above several connections.
 - "4x6 = NAILED" is written above connection 4.
 - "3x4 = NAILED" is written above connection 5.
 - "3x6 = NAILED" is written above connection 6.
 - "2x4 = NAILED" is written above connection 7.
 - "ST1.5x8 STP = 3x6 =" is written below connection 2.
 - "3x8 = SUR26 NAILED" is written below connection 11.
 - "4x6 = NAILED" is written below connection 10.
 - "3x6 = NAILED" is written below connection 9.
 - "3x6 = NAILED" is written below connection 21.
 - "NAILED" is written below connection 22.
 - "6x8 = NAILED" is written below connection 23.
 - "6.00 | 12" is written near connection 3.
- Scale:** Scale = 1.35.3

LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.62	Vert(LL) 0 15 9-11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0 14 9-11 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.50	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 116 lb	FT = 20%

LUMBER.

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

REACTIONS.

(size) 8=0-3-8, 2=0-8-0
Max Horz 2=236(LC 29)
Max Uplift 8=-1531(LC 5), 2=-1110(LC 8)
Max Grav 8=1836(LC 1), 2=1481(LC 1)

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

TOP CHORD 2-3=-2753/2184, 3-4=-2571/2089, 4-5=-2292/1933, 5-6=-2015/1666, 7-8=-289/255
BOT CHORD 2-11=-2080/2435, 9-11=-1930/2308, 8-9=-1268/1530
WEBS 3-11=-233/255, 4-11=-528/697, 5-9=-589/532, 6-9=-827/980, 6-8=-2028/1682

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCFL=4 2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp C, Encl , GCp=0.18, MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1531, 2=1110
- 8) Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 7'-0" from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down
- 9) Fill all nail holes where hanger is in contact with lumber
- 10) "NAILED" Indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-8=-20

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977604
4461126	T04	Half Hip Girder	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23.51 2025 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-84(B) 10=-66(B) 11=-295(B) 5=-124(B) 9=-66(B) 6=-124(B) 14=-124(B) 15=-124(B) 16=-124(B) 17=-124(B) 18=-143(B) 19=-66(B) 20=-66(B) 21=-66(B)
22=-66(B) 23=-72(B)

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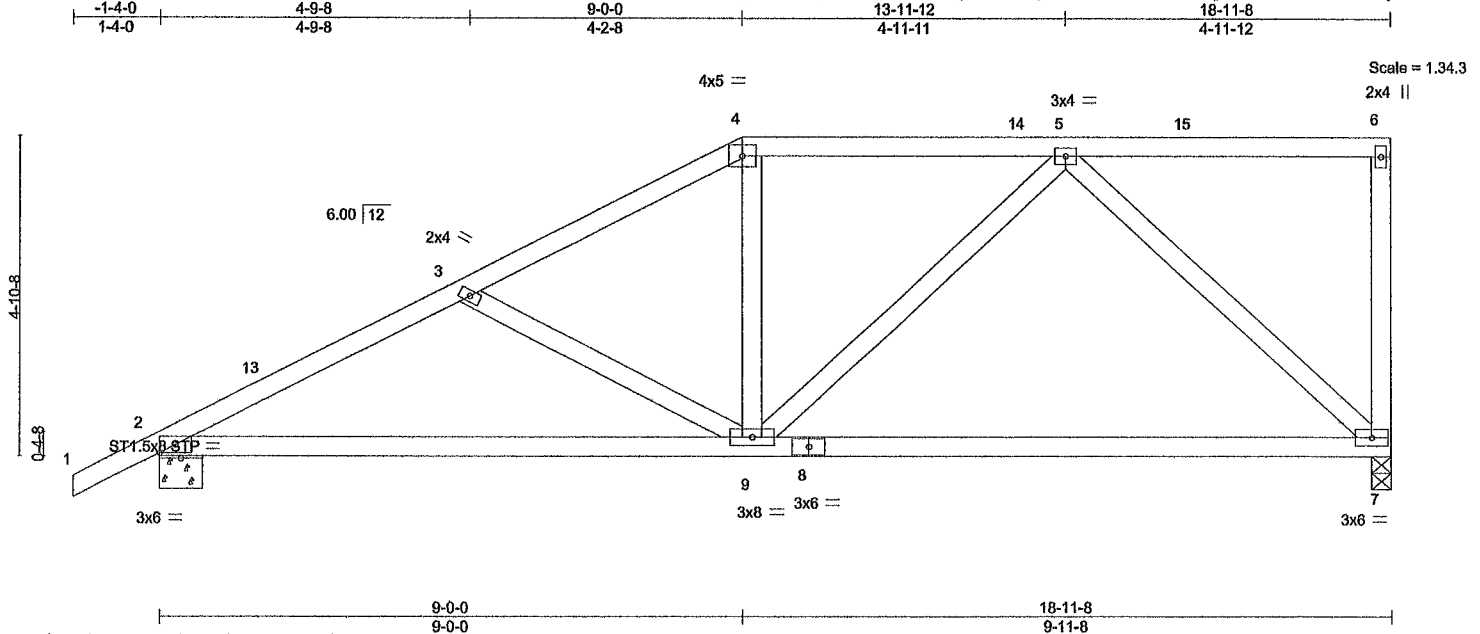
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977605
4461126	T05	Half Hip	1	1		

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

8,830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:52 2025 Page 1

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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.21	7-9	>999	MT20	244/190
TCDL 10 0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.43	7-9	>521		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.03	7	n/a		
BCDL 10 0	Code FBC2023/TP12014		Matrix-MS					Weight. 99 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-8-0, 7=0-3-8
Max Horz 2=294(LC 12)
Max Uplift 2=417(LC 12), 7=378(LC 9)
Max Grav 2=835(LC 1), 7=750(LC 1)

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

TOP CHORD 2-3=-1263/615, 3-4=-970/444, 4-5=-813/448
BOT CHORD 2-9=-734/1102, 7-9=-332/595
WEBS 3-9=-333/323, 4-9=-8/253, 5-9=-159/353, 5-7=-791/460

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 18-9-12 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 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=417, 7=378

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	T06	Half Hip	1	1		T37977606

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:52 2025 Page 1

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Job Reference (optional)

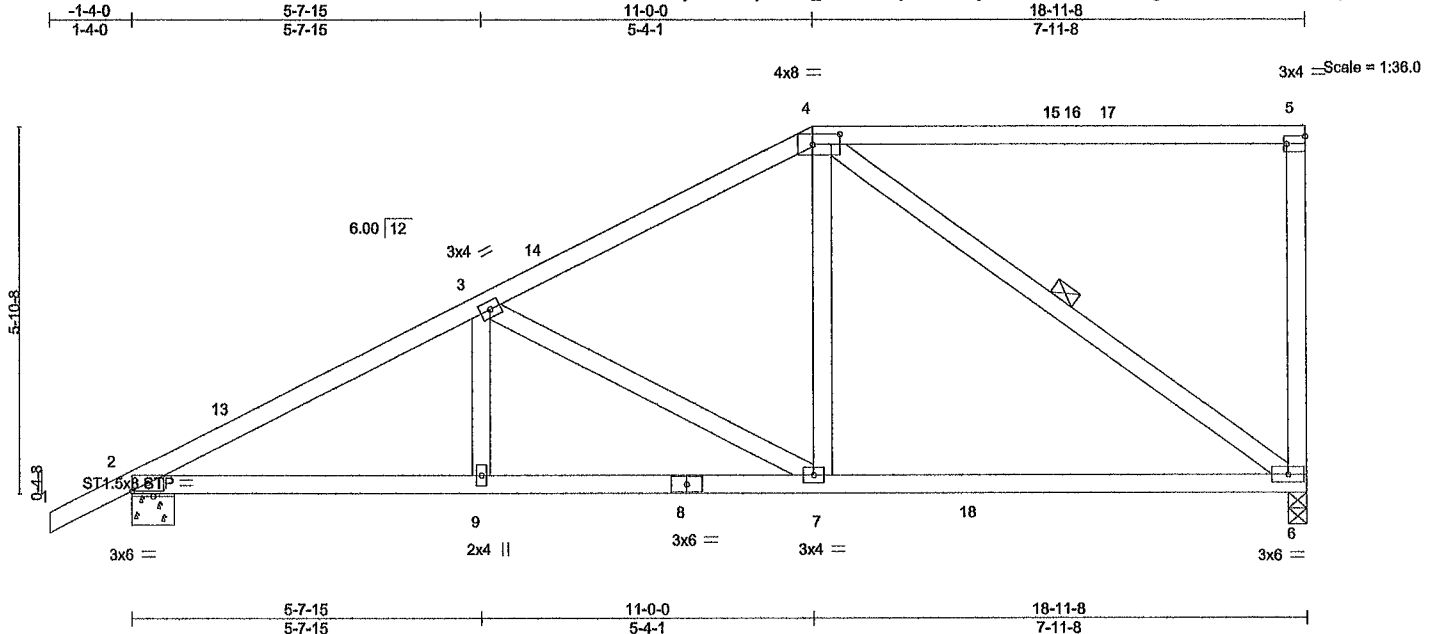


Plate Offsets (X,Y) -- [4:0-5-4,0-2-0], [5:Edge,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) I/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.13	6-7	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.24	6-7	>959	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.03	6	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 103 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 4-10-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-9 oc bracing
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 2=0-8-0, 6=0-3-8
Max Horz 2=352(LC 12)
Max Uplift 2=407(LC 12), 6=366(LC 12)
Max Grav 2=881(LC 2), 6=821(LC 2)

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

TOP CHORD 2-3=-1348/560, 3-4=-868/361
BOT CHORD 2-9=-728/1172, 7-9=-728/1172, 6-7=-391/736
WEBS 3-7=-528/385, 4-7=-128/544, 4-6=-863/465

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl . GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 18-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=407, 6=366.

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:

July 22,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977607
4461126	T07	Hip	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:53 2025 Page 1

ID:j8MwDmkYv3T3w_0vQT0Z5Uyww6m-WhHw52io_9FduFTZz?WsDEeTXRiX1qZV6jvRo1yvsFa

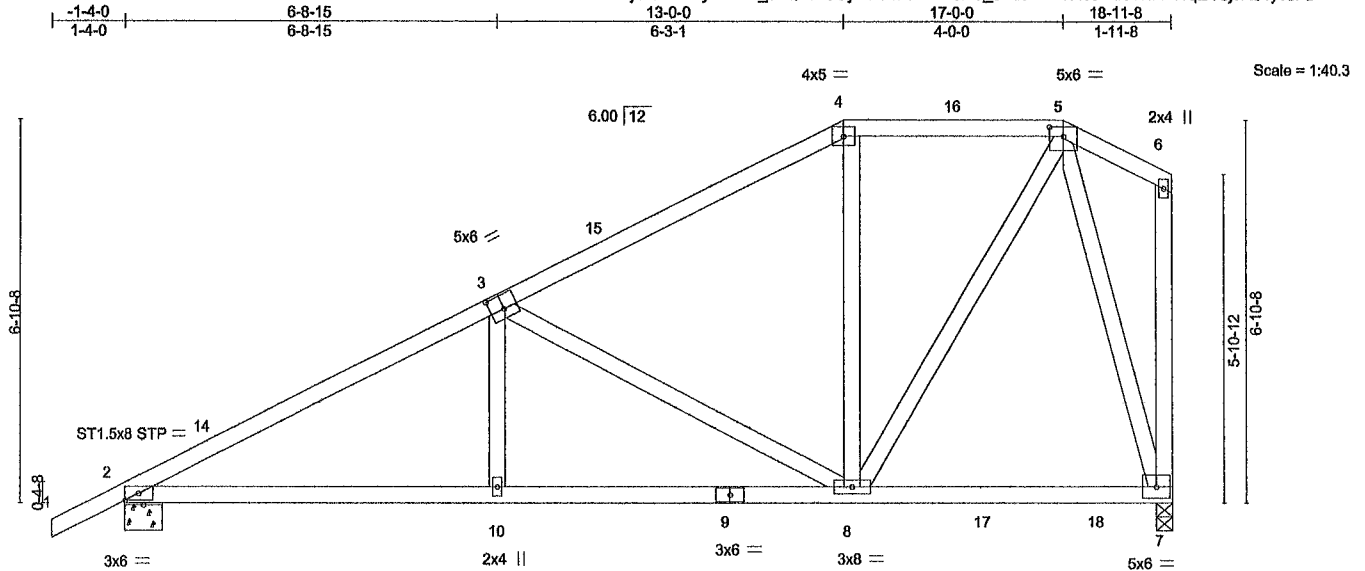


Plate Offsets (X,Y) - [3'-0"-3'-0", 0'-3'-0"], [5'-0"-3'-0", 0'-2'-0"]

LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	0.09 10-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.15 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 115 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 4-9-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-10 oc bracing

REACTIONS.

(size) 2=0-8-0, 7=0-3-8
Max Horz 2=379(LC 12)
Max Uplift 2=399(LC 12), 7=376(LC 12)
Max Grav 2=872(LC 2), 7=824(LC 2)

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

TOP CHORD 2-3=-1279/512, 3-4=-654/270, 4-5=-513/306
BOT CHORD 2-10=-698/1106, 8-10=-698/1101
WEBS 3-10=0/278, 3-8=-672/479, 5-8=-346/832, 5-7=-705/380

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 13-0-0, Zone3 13-0-0 to 18-9-12 zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=399, 7=376

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Philip J. O'Regan PE No.59126
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

July 22,2025



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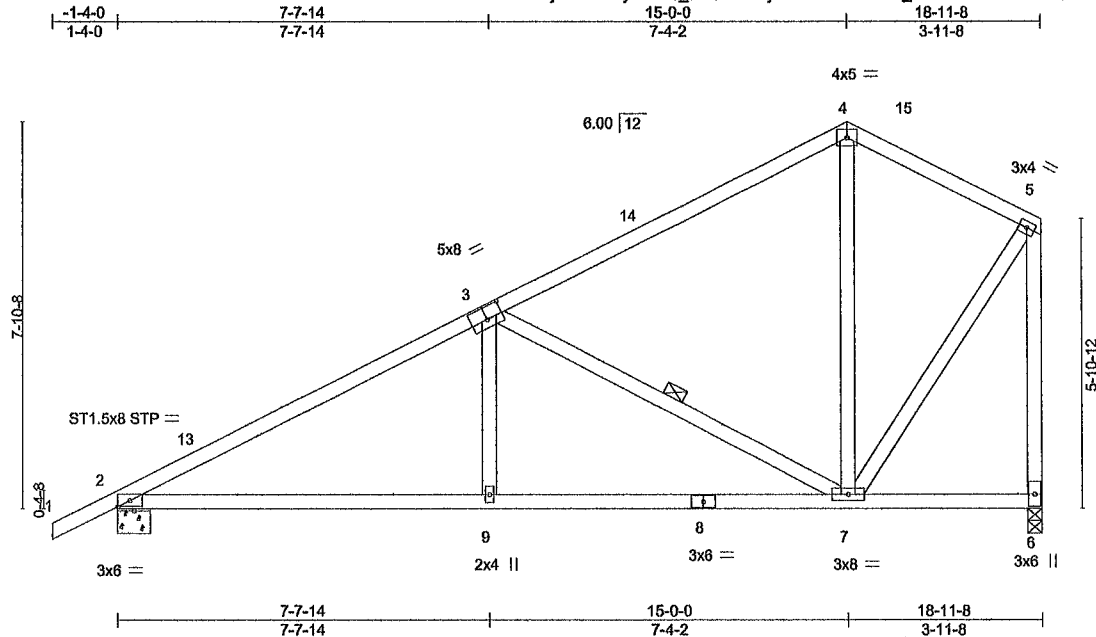
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977608
4461126	T08	Common	3	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:53 2025 Page 1

ID:j8MwDmkYv3T3w_0vQT0Z5Ujyww6m-WHw52lo_9FduFTZz?WsDEeQRRsh1wVv6jvRo1yvsFa



Scale = 1:45.7

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

LOADING (psf)	SPACING-		CSI.		DEFL.					PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.68		in (loc)	l/defl	L/d			MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60		Vert(LL) 0.13	9-12	>999	240			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29		Vert(CT) -0.18	9-12	>999	180			
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS		Horz(CT) 0.02	6	n/a	n/a			
										Weight: 108 lb	FT = 20%

LUMBER-

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

REACTIONS.

(size) 2=0-8-0, 6=0-3-8
Max Horz 2=404(LC 12)
Max Uplift 2=-389(LC 12), 6=-386(LC 12)
Max Grav 2=835(LC 1), 6=750(LC 1)

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

TOP CHORD 2-3=-1193/505, 3-4=-475/255, 4-5=-401/276, 5-6=-724/482
BOT CHORD 2-9=-682/998, 7-9=-681/1003
WEBS 3-9=0/330, 3-7=-768/564, 5-7=-320/571

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCp=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone3 15-0-0 to 18-9-12 zone,C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=389, 6=386

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-9-10 oc bracing
WEBS 1 Row at midpt 3-7

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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:

July 22,2025



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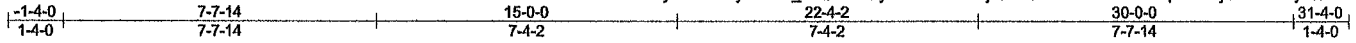
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977609
4461126	T09	Common	2	1	Job Reference (optional)	

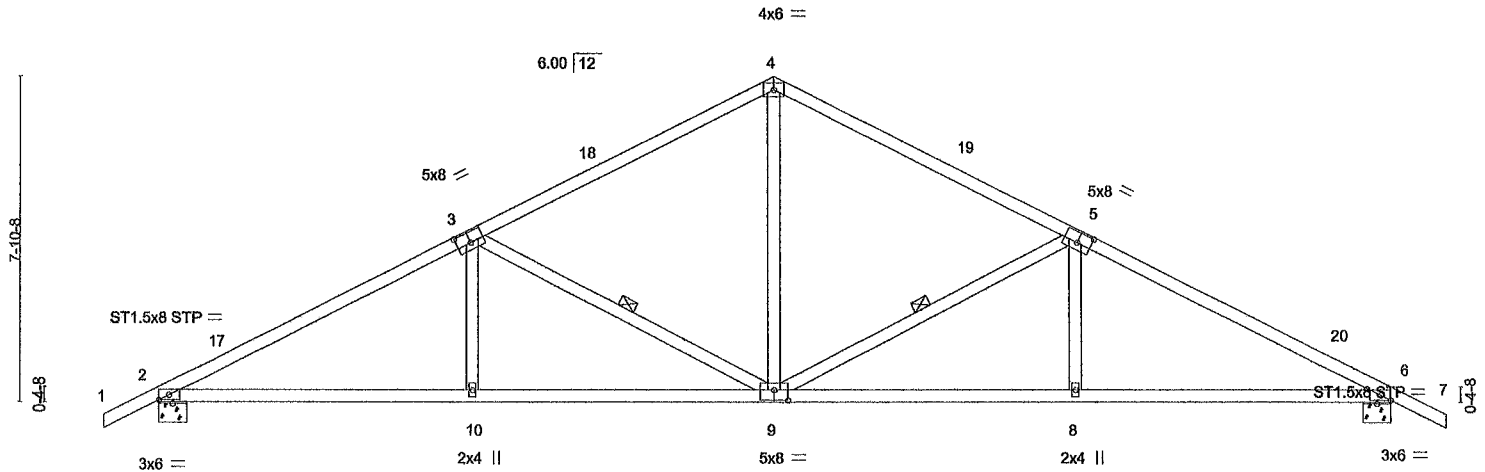
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23.54 2025 Page 1

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Scale = 1:54.3



	7-7-14	15-0-0	22-4-2	30-0-0
	7-7-14	7-4-2	7-4-2	7-7-14

Plate Offsets (X,Y)-- [3'-0'-4'-0',0'-3'-0'], [5'-0'-4'-0',0'-3'-0'], [6'-0'-2'-15',Edge], [9'-0'-4'-0',0'-3'-0']

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.68	Vert(LL) 0 15	10-13	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.70	Vert(CT) -0.23	10-13	>999	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.08	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight. 145 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 3-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-11 oc bracing
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS.

(size) 2=0-8-0, 6=0-8-0
Max Horz 2=204(LC 12)
Max Uplift 2=-588(LC 12), 6=-588(LC 13)
Max Grav 2=1280(LC 1), 6=1280(LC 1)

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

TOP CHORD 2-3=-2161/922, 3-4=-1466/734, 4-5=-1466/734, 5-6=-2161/922
BOT CHORD 2-10=-870/1861, 9-10=-870/1866, 8-9=-707/1866, 6-8=-707/1861
WEBS 4-9=-328/812, 5-9=-751/557, 5-8=0/315, 3-9=-751/556, 3-10=0/315

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C; Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-4-0 zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=588, 6=588.

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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:

July 22,2025

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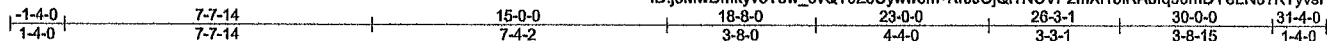
Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	T10	Roof Special	1	1		T37977610

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:54 2025 Page 1

ID:j8MwDmkyv3T3w_OvQT0Z5Uyww6m-7lrJJOJQITNUVP2mXI15IRAbiq90mDYeLNe7KTyvsFZ

Job Reference (optional)



Scale = 1:55.3

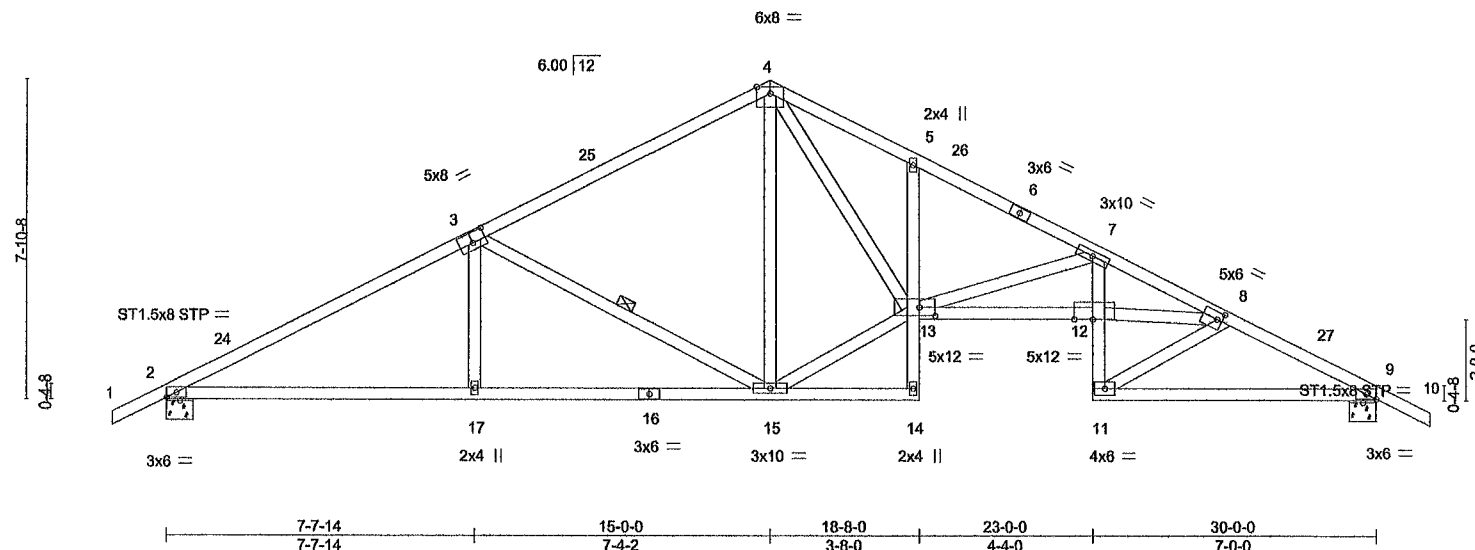


Plate Offsets (X,Y)-- [3-0-4-0,0-3-0], [8-0-1-8,0-2-4], [9-0-2-15,Edge], [12-0-5-8,0-0-0], [13-0-4-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.79	Vert(LL) 0.30 12-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.95	Vert(CT) -0.56 12-13 >645 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.31 9 n/a n/a		
	Code FBC2023/TPI2014			Weight: 171 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-5-2 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 5-0-11 oc bracing
5-14 2x4 SP No.3, 12-13. 2x4 SP No 1	WEBS 1 Row at midpt 3-15
WEBS 2x4 SP No.3 *Except*	
8-12 2x4 SP No.2	

REACTIONS.	(size) 2=0-8-0, 9=0-8-0
	Max Horz 2=204(LC 12)
	Max Uplift 2=588(LC 12), 9=588(LC 13)
	Max Grav 2=1280(LC 1), 9=1280(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD	2-3=-2164/924, 3-4=-1462/733, 4-5=-2519/1211, 5-7=-2564/1103, 7-8=-4548/1840, 8-9=-2273/1005
BOT CHORD	2-17=-870/1864, 15-17=-869/1869, 5-13=-252/260, 12-13=-1558/4199, 11-12=-410/1109, 7-12=-450/1311, 9-11=-795/1991
WEBS	3-17=0/322, 3-15=-753/556, 13-15=-411/1352, 4-13=-784/1891, 7-13=-2041/930, 8-12=-1448/3875, 8-11=-2108/856

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-4-0 zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=588, 9=588

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

July 22,2025

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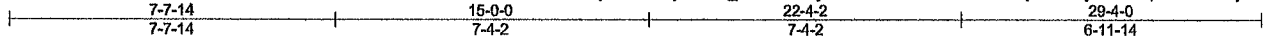
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977611
4461126	T11	Common	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:55 2025 Page 1

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Scale = 1.52 1

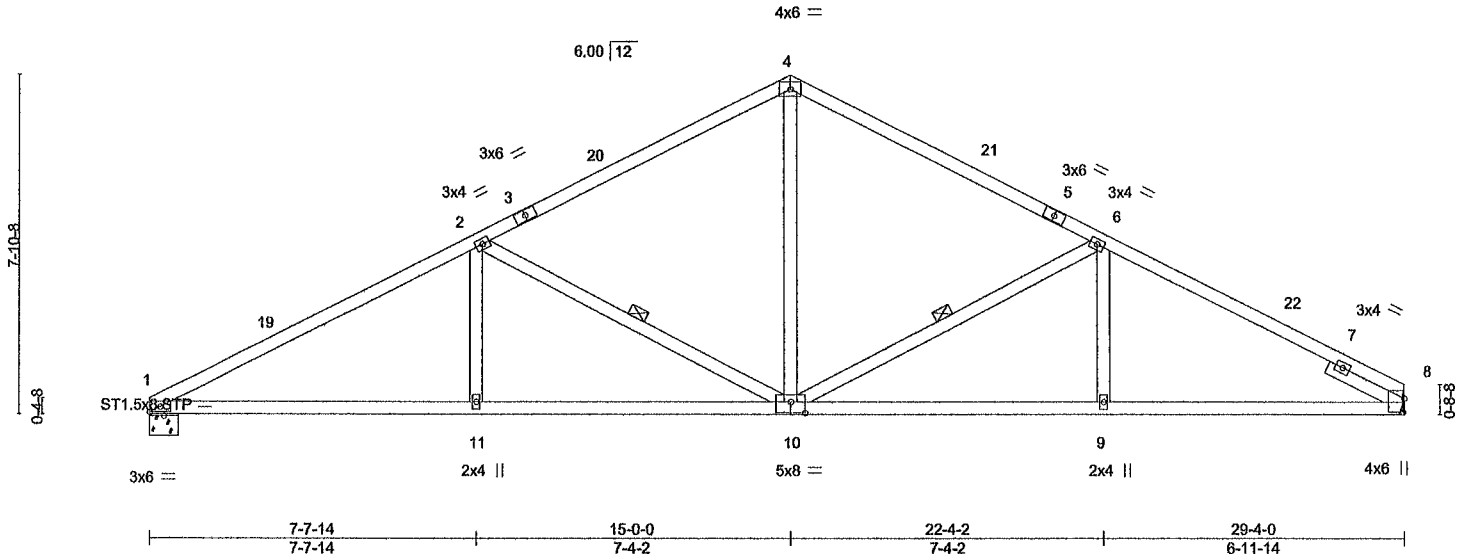


Plate Offsets (X, Y)-- [8-0-3-13,0-0-6], [10-0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	In (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	2-0-0	TC 0.83	Vert(LL)	0.17 11-14	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.72	Vert(CT)	-0.25 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS						
							Weight: 141 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Right 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-8-13 oc bracing
WEBS 1 Row at midpt 2-10, 6-10

REACTIONS. (size) 1=0-8-0, 8=Mechanical
Max Horz 1=198(LC 12)
Max Uplift 1=524(LC 12), 8=516(LC 13)
Max Grav 1=1173(LC 1), 8=1173(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2114/946, 2-4=-1417/730, 4-6=-1410/728, 6-8=-1937/895
BOT CHORD 1-11=-886/1818, 10-11=-886/1818, 9-10=-679/1671, 8-9=-679/1671
WEBS 2-11=0/314, 2-10=-751/562, 4-10=-326/761, 6-10=-604/487, 6-9=0/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpl=0 18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-4-0 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 1=524, 8=516.

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:

July 22,2025

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

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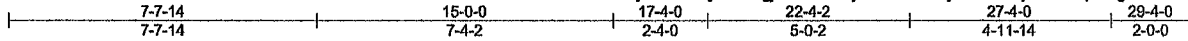
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977612
4461126	T12	Roof Special	3	1	Job Reference (optional)	

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

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ID:j8MwDmkyv3T3w_OvQT0Z5Ujyww6m-xGz3j3khH4dCljC8f74ZqsGxgesfECuxoh75PMYvsFX



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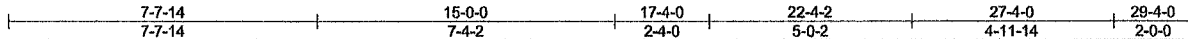
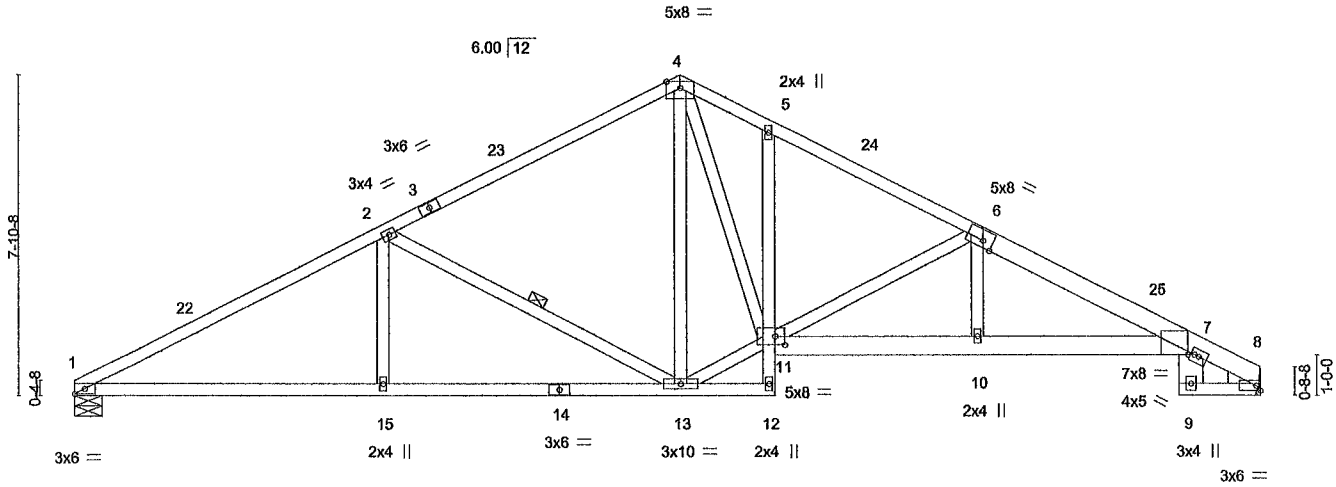


Plate Offsets (X,Y)-- [6 0-3-0,Edge], [7 0-1-15,0-0-0], [11 0-2-12,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	Vert(LL)	0 19	7-10	>999	MT20	244/190
TCDL 10 0	Plate Grip DOL 1.25	BC 0.71	Vert(CT)	-0.31	7-10	>999		
BCLL 0 0 *	Lumber DOL 1.25	WB 0.64	Horz(CT)	0.18	8	n/a		
BCDL 10 0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TP12014						Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-8 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
5-12 2x4 SP No.3, 7-11 2x6 SP 2400F 2.0E or 2x6 SP M 26
7-9 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-8-15 oc bracing
WEBS 1 Row at midpt 2-13

REACTIONS.

(size) 1=0-8-0, 8=Mechanical
Max Horz 1=195(LC 12)
Max Uplift 1=524(LC 12), 8=515(LC 13)
Max Grav 1=1173(LC 1), 8=1176(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2119/949, 2-4=-1410/726, 4-5=-1728/955, 5-6=-1814/877, 6-7=-2688/1184,
7-8=-620/317
BOT CHORD 1-15=-883/1823, 13-15=-883/1823, 10-11=-951/2418, 7-10=-947/2397
WEBS 2-15=0/324, 2-13=-757/563, 11-13=-369/1169, 4-11=-571/1169, 6-11=-979/567,
6-10=-96/434

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-4-0 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jl=lb) 1=524, 8=515.

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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:

July 22,2025

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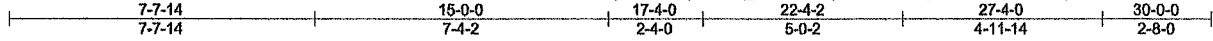
16023 Swingley Ridge Rd.
Chesterfield MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977613
4461126	T13	Roof Special	3	1		

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

8.830 s Jun 11 2025 MITek Industries, Inc. Mon Jul 21 11:23.56 2025 Page 1

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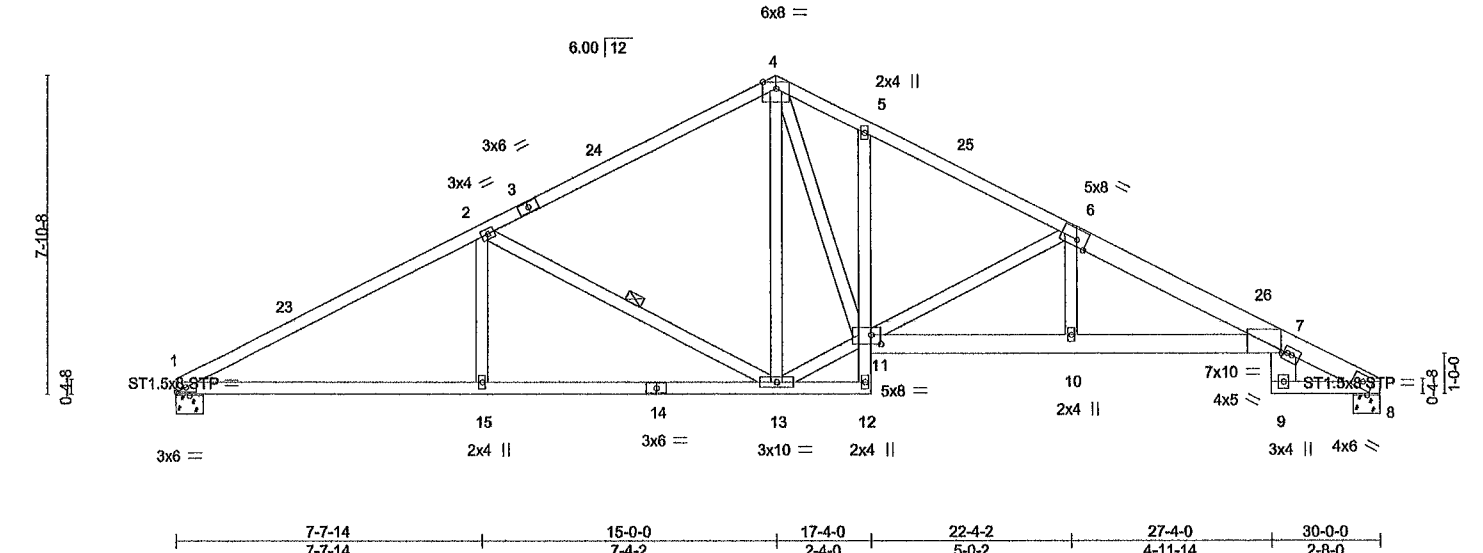


Plate Offsets (X,Y)-- [6:0-3-0,Edge], [7:0-1-11,0-0-0], [11:0-2-12,0-2-12]											
LOADING (psf)		SPACING- 2-0-0		CSL		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.25	7-10	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.41	7-10	>883	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.26	8	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 176 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied or 3-2-6 oc purlins.
	6-8 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD	Rigid ceiling directly applied or 5-8-13 oc bracing
BOT CHORD	2x4 SP No.2 *Except*	WEBS	1 Row at midpt 2-13
	5-12 2x4 SP No.3, 7-11 2x6 SP 2400F 2.0E or 2x6 SP M 26		
	7-9 2x8 SP 2400F 2.0E		
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	1=0-8-0, 8=0-8-0
Max Horz	1=190(LC 12)
Max Uplift	1=528(LC 12), 8=522(LC 13)
Max Grav	1=1187(LC 1), 8=1196(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown	
TOP CHORD	1-2=-2148/961, 2-4=-1439/738, 4-5=-1772/972, 5-6=-1860/893, 6-7=-2817/1233, 7-21=-681/352
BOT CHORD	1-15=-886/1849, 13-15=-886/1849, 10-11=-996/2550, 7-10=-991/2526, 7-9=-109/255
WEBS	2-15=0/324, 2-13=-756/563, 11-13=-370/1190, 4-11=-585/1212, 6-11=-1082/610, 6-10=-118/476

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-8-0 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=528, 8=522.

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.48126
MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22,2025

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977614
4461126	T14	Hip	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:57 2025 Page 1

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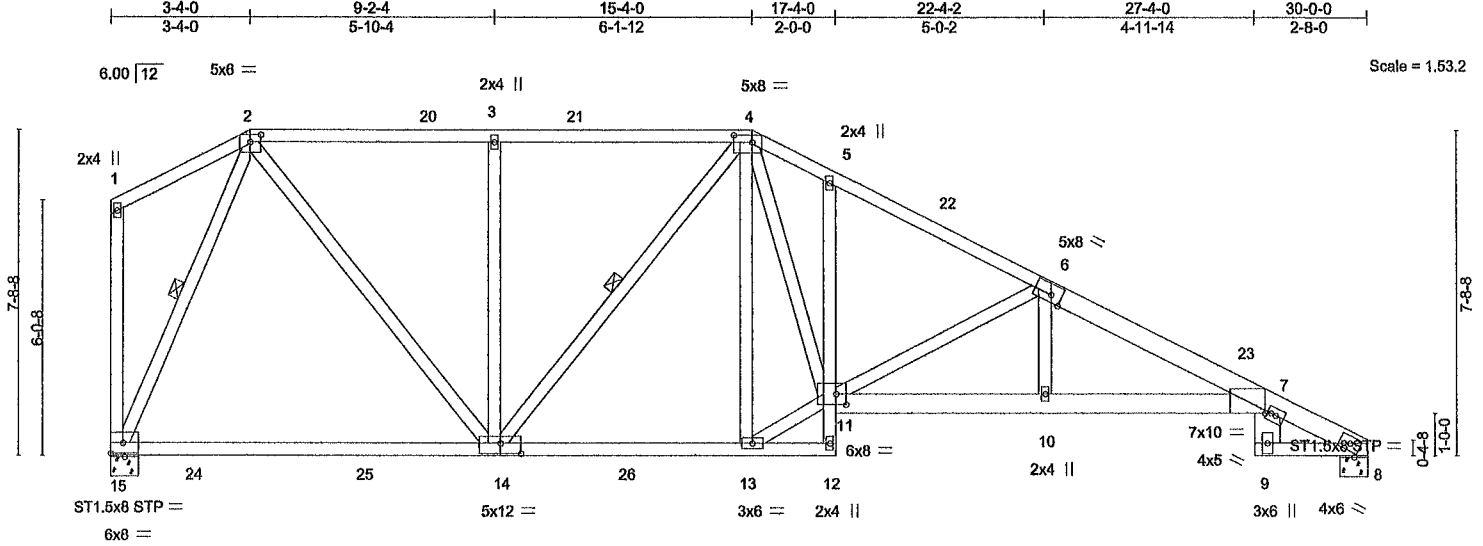


Plate Offsets (X,Y) -	[2 0-3-0,0-2-0], [4 0-5-4,0-2-0], [6 0-3-0,Edge], [7 0-1-11,Edge], [11 0-2-12,0-3-0], [14 0-6-0,0-3-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20 0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10 0	Plate Grip DOL 1.25	BC 0.96	Vert(LL) -0.36 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.85	Vert(CT) -0.60 14-15 >596 180		
BCDL 10 0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.25 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 213 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-8 2x6 SP 2400F 2 0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
5-12: 2x4 SP No.3, 7-11 2x6 SP 2400F 2.0E or 2x6 SP M 26
7-9: 2x8 SP 2400F 2 0E
WEBS 2x4 SP No.3

REACTIONS. (size) 8=0-8-0, 15=0-8-0
Max Horz 15=-387(LC 13)
Max Uplift 8=-561(LC 13), 15=-491(LC 13)
Max Grav 8=1299(LC 2), 15=1331(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1191/565, 3-4=-1184/560, 4-5=-1933/956, 5-6=-2009/869, 6-7=-3041/1267, 7-18=-733/345
BOT CHORD 14-15=-110/555, 13-14=-293/1319, 10-11=-1032/2773, 7-10=-1026/2743, 7-9=-108/285
WEBS 2-14=-496/1131, 3-14=-414/342, 4-14=-263/242, 4-13=-509/151, 11-13=-279/1338, 4-11=-591/1383, 6-11=-1172/631, 2-15=-1163/545, 6-10=-121/561

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf, BCDL=3.0psf; h=20ft; Cat. II; Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-4-0, Zone2 3-4-0 to 7-6-15, Zone1 7-6-15 to 15-4-0, Zone2 15-4-0 to 19-6-15, Zone1 19-6-15 to 29-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=561, 15=491.

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:

July 22,2025

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Chesterfield MO 63017
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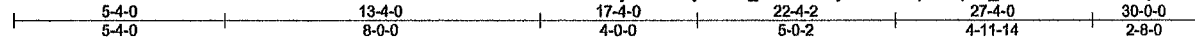
Job 4461126	Truss T15	Truss Type Hip	Qty 1	Ply 1	LOT 9 FV	T37977615
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:23:58 2025 Page 1

ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-te4p8lmxpitw_0MXmY61wHLBISZqh3HEG7cCUFYvsFV

Job Reference (optional)



Scale = 1/8" = 1'-0"

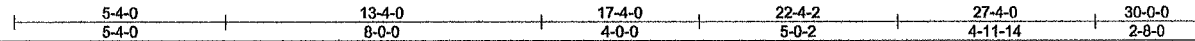
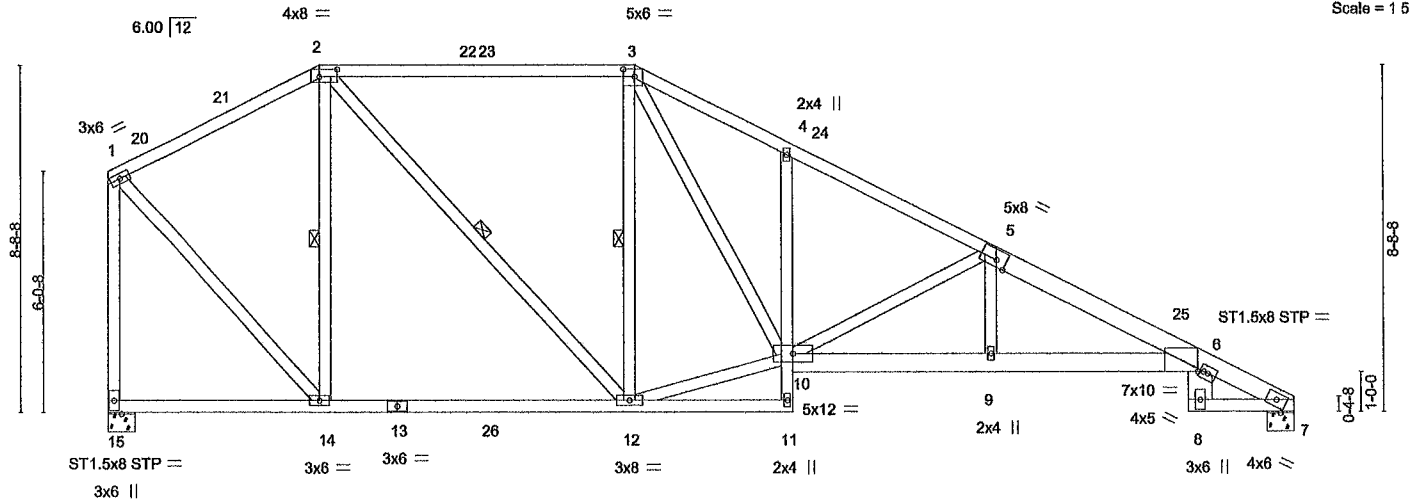


Plate Offsets (X,Y)-- [2:0-5-8,0-2-4], [3:0-3-8,0-2-4], [5:0-3-0,Edge], [6:0-1-11,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.97	Vert(LL)	0.26	6-9	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.67	Vert(CT)	-0.43	6-9	>841	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT)	0.24	7	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS							
								Weight: 211 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
2-3 2x4 SP No.1, 5-7 2x6 SP 2400F 2.0E or 2x6 SP M 26
BOT CHORD 2x4 SP No.2 *Except*
4-11 2x4 SP No.3, 6-10: 2x6 SP 2400F 2.0E or 2x6 SP M 26
6-8. 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.
WEBS 1 Row at mldpt 2-14, 2-12, 3-12

REACTIONS. (size) 15=0-8-0, 7=0-8-0
Max Horz 15=-392(LC 13)
Max Uplift 15=-499(LC 13), 7=-555(LC 13)
Max Grav 15=1302(LC 2), 7=1287(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-852/391, 2-3=-1149/642, 3-4=-1932/981, 4-5=-1981/855, 5-6=-3003/1247, 6-18=-726/341, 1-15=-1241/567
BOT CHORD 14-15=-118/389, 12-14=-129/739, 4-10=-217/266, 9-10=-1014/2737, 6-9=-1007/2707, 6-8=-107/283
WEBS 2-14=-544/345, 2-12=-416/668, 3-12=-576/376, 10-12=-170/1072, 3-10=-603/1158, 5-10=-1158/622, 5-9=-121/556, 1-14=-407/1048

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 5-4-0, Zone2 5-4-0 to 9-6-15, Zone1 9-6-15 to 13-4-0, Zone2 13-4-0 to 17-6-15, Zone1 17-6-15 to 29-8-0 zone;C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=499, 7=555.

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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:

July 22,2025

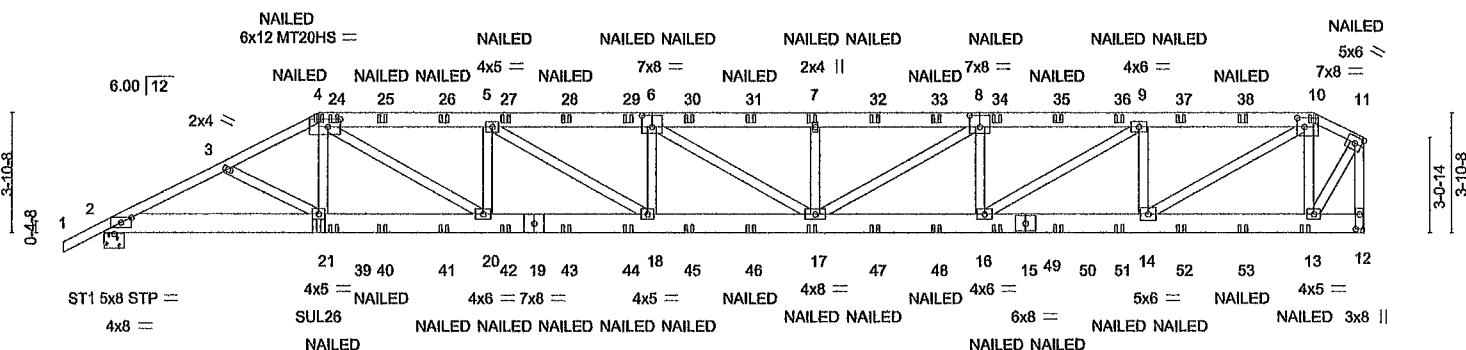
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1-4-0	3-11-15	7-0-0	12-6-13	17-9-15	23-2-0	28-6-1	33-10-3	39-4-0	40-11-1
1-4-0	3-11-15	3-0-1	5-5-13	5-4-1	5-4-1	5-4-1	5-4-1	5-5-13	1-7-4

Scale = 1.72.5



LOADING (psf)	SPACING- 2-0-0		CSL		DEFL. in (loc) l/defl L/d		PLATES		GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.66		Vert(LL) 0.65 17-18 >752 240		MT20		244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.28		Vert(CT) -0.65 17-18 >754 180		MT20HS		187/143
BCLL 0.0 *	Rep Stress Incr NO		WB 0.63		Horz(CT) 0.08 12 n/a n/a				
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 624 lb		FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
 1-4,10-11 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
 4-20,5-18,6-17,8-17,9-16,10-14 2x4 SP No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 8-8-3 oc bracing.

REACTIONS. (size) 2=0-8-0, 12=Mechanical
 Max Horz 2=209(LC 8)
 Max Uplift 2=2688(LC 8), 12=2851(LC 4)
 Max Grav 2=3425(LC 1), 12=3524(LC 1)

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

TOP CHORD 2-3=-7194/5795, 3-4=-7060/5740, 4-5=-9457/7789, 5-6=-10862/8942, 6-7=-10728/8835,
7-8=-10728/8835, 8-9=9257/7625, 9-10=-6211/5116, 10-11=-1898/1548,
11-12=-3618/2938

BOT CHORD 2-21=-5270/6387, 20-21=-5191/6336, 18-20=-7776/9452, 17-18=-8934/10864,
16-17=-7619/9260, 14-16=-5104/6206, 13-14=-1299/1590

WEBS 3-21=-231/260, 4-21=-584/788, 4-20=-3093/3704, 5-20=-1714/1448, 5-18=-1386/1692,
6-18=-579/510, 7-17=-635/557, 8-17=-1479/1733, 8-16=-1570/1325, 9-16=-2964/3599,
9-14=-2682/2246, 10-14=-4479/5435, 10-13=-2377/1968, 11-13=-2629/3212

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.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design
- 4) Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpi=0 18, MWFRS (envelope) gable end zone, Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (If=lb)

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Date:

July 22, 2025

Continued on page 51

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977616
4461126	T16	Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:01 2025 Page 2
ID:j8MwDmkYv3T3w_0vQT0Z5Uyww6m-HDmynnop6dFUrU46RgfkXwnjfgduTFgyzrs4ZyvsFS

NOTES-

- 12) Use Simpson Strong-Tie SUL26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg to the left, sloping 0.0 deg down.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 4-10=-60, 10-11=-60, 2-12=-20

Concentrated Loads (lb)

Vert: 4=-84(F) 10=-124(F) 21=-295(F) 7=-124(F) 17=-66(F) 13=-66(F) 24=-124(F) 25=-124(F) 26=-124(F) 27=-124(F) 28=-124(F) 29=-124(F) 30=-124(F) 31=-124(F) 32=-124(F) 33=-124(F) 34=-124(F) 35=-124(F) 36=-124(F) 37=-124(F) 38=-124(F) 39=-66(F) 40=-66(F) 41=-66(F) 42=-66(F) 43=-66(F) 44=-66(F) 45=-66(F) 46=-66(F) 47=-66(F) 48=-66(F) 49=-66(F) 50=-66(F) 51=-66(F) 52=-66(F) 53=-66(F)

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Date:

July 22,2025



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ID:8MwDmkvv3T3w 0vQT0Z5Uwww6m-HDmynnop6dFUrU46RqkXwzomfW7uX6avzrs4ZvvsFS

1-4-0	4-9-8	9-0-0	14-10-14	20-8-0	26-5-2	32-4-0	36-6-8	40-11-4
1-4-0	4-9-8	4-2-8	5-10-14	5-9-2	5-9-2	5-10-14	4-2-8	4-4-12

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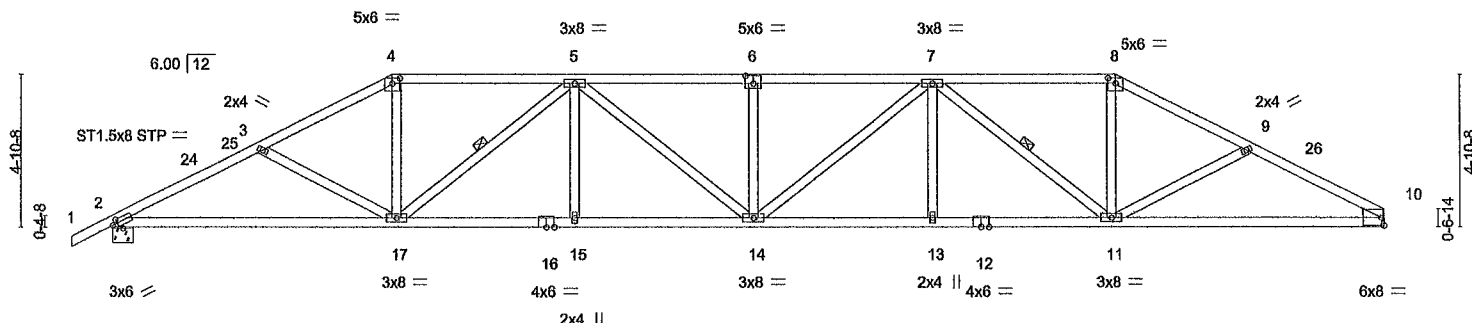


Plate Offsets (X,Y)--									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.40 14 >999 240	MT20	244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.63 14-15 >778 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.20 10 n/a n/a		
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS				Weight: 216 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-8-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing
WEBS	1 Row at midpt 5-17, 7-11

REACTIONS.

(size) 2=0-8-0, 10=Mechanical
Max Horz 2=152(LC 12)
Max Uplift 2=-811(LC 12), 10=-750(LC 13)
Max Grav 2=1719(LC 1), 10=1636(LC 1)

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

FOR CHORD
2-3--3177/1473, 3-4--2893/1315, 4-5--2563/1240, 5-6--3692/1795, 6-7--3692/1795,
7-8--2481/1204, 8-9--2781/1270, 9-10--2977/1387
BOT CHORD
2-17--1353/2795, 15-17--1609/3426, 14-15--1609/3426, 13-14--1542/3392,
11-13--1542/3392, 10-11--1147/2587
WEBS
3-17--299/300, 4-17--390/982, 5-17--1171/671, 6-14--331/270,
7-14--331/440, 7-11--1227/690, 8-11--362/916

NOTES-

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C, Encl., GCp=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-9-2, Zone1 2-9-2 to 9-0-0, Zone2 9-0-0 to 14-10-14, Zone1 14-10-14 to 32-4-0, Zone2 32-4-0 to 38-1-8, Zone1 38-1-8 to 40-11-4 zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding
- 5) This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (If=lb) 2=811. 10=750.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22, 2025



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Job 4461126	Truss T18	Truss Type Hip	Qty 1	Ply 1	LOT 9 FV	T37977618
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,						Job Reference (optional)

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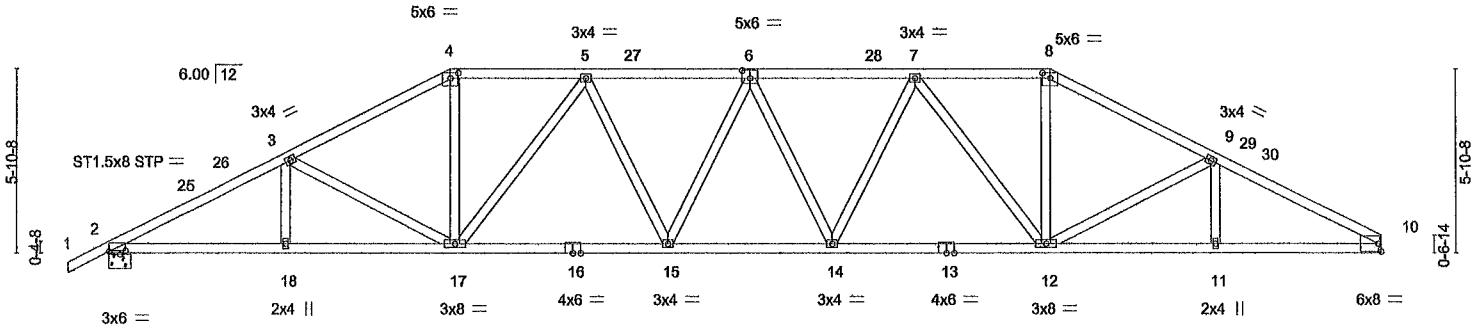


Plate Offsets (X,Y) -	[2:0-6-0,0-0-3], [4 0-3-0,0-2-0], [6:0-3-0,0-3-0], [8:0-3-0,0-2-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.78	Vert(LL) 0.29 14-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Vert(CT) -0.49 15-17 >999 180		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.17 10 n/a n/a		
				Weight: 225 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-13. 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-1-3 oc bracing

REACTIONS. (size) 2=0-8-0, 10=Mechanical
Max Horz 2=177(LC 12)
Max Uplift 2=808(LC 12), 10=-747(LC 13)
Max Grav 2=1719(LC 1), 10=1636(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3189/1431, 3-4=-2732/1243, 4-5=-2396/1180, 5-6=-2949/1371, 6-7=-2933/1373,
7-8=-2351/1158, 8-9=-2677/1216, 9-10=-2979/1348
BOT CHORD 2-18=-1332/2793, 17-18=-1332/2793, 15-17=-1226/2821, 14-15=-1300/3019,
12-14=-1158/2794, 11-12=-1113/2595, 10-11=-1113/2595
WEBS 3-17=-480/379, 4-17=-358/923, 5-17=-789/473, 5-15=-188/360, 6-14=-259/240,
7-14=-199/385, 7-12=-814/483, 8-12=-351/885, 9-12=-317/306

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-9-2, Zone1 2-9-2 to 11-0-0, Zone2 11-0-0 to 16-9-8, Zone1 16-9-8 to 30-4-0, Zone2 30-4-0 to 36-1-8, Zone1 36-1-8 to 40-11-4 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 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=808, 10=747

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22, 2025

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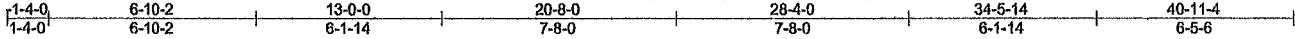
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Job 4461126	Truss T19	Truss Type Hip	Qty 1	Ply 1	LOT 9 FV	T37977619
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:03 2025 Page 1

ID:j8MwDmkyv3T3w_0vQT0Z5Uyww6m-EcuIBTq4eEWC4nEUZ5lCdL25YTCqMLSzPHKz9SyvsFQ



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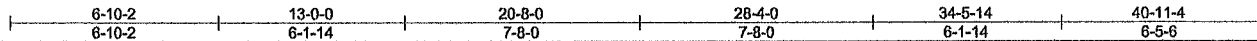
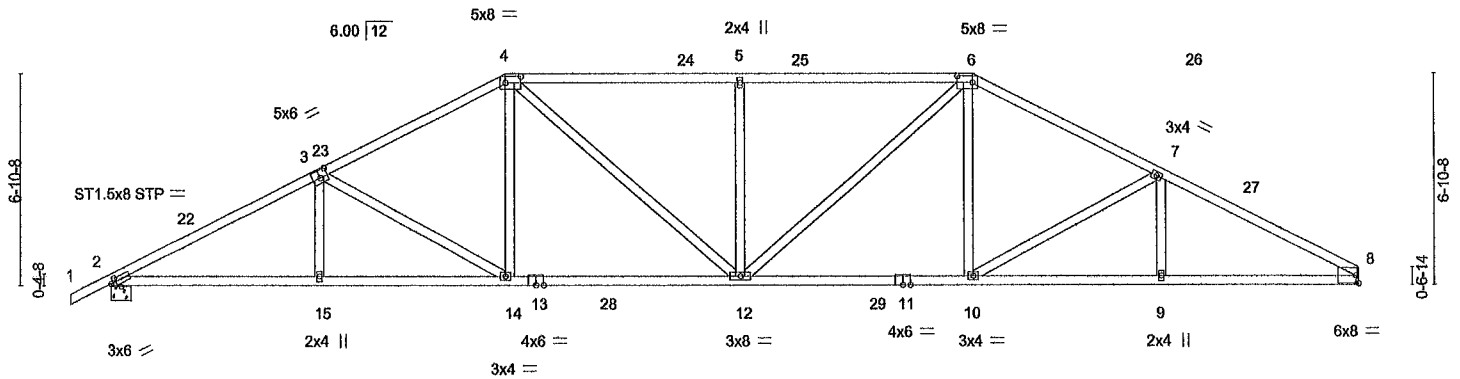


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [3:0-3-0,0-3-0], [4:0-6-0,0-2-8], [6:0-6-0,0-2-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.77	Vert(LL)	-0.28 12-14	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.93	Vert(CT)	-0.52 12-14	>941	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.71	Horz(CT)	0.17 8	n/a	n/a		
BCDL 10 0	Code FBC2023/TP12014	Matrix-MS					Weight: 216 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6, 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
8-11 2x4 SP No.1
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-8-0, 8=Mechanical
Max Horz 2=202(LC 12)
Max Uplift 2=805(LC 12), 8=743(LC 13)
Max Grav 2=1854(LC 2), 8=1786(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-3423/1395, 3-4=-2832/1178, 4-5=-2879/1283, 5-6=-2879/1283, 6-7=-2790/1169,
7-8=-3237/1328
BOT CHORD 2-15=-1307/3005, 14-15=-1307/3007, 12-14=-915/2476, 10-12=-798/2444,
9-10=-1078/2827, 8-9=-1078/2827
WEBS 3-15=0/257, 3-14=-637/451, 4-14=-174/588, 4-12=-365/631, 5-12=-528/439,
6-12=-377/670, 6-10=-150/540, 7-10=-495/389

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl., GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 2-9-2, Zone1 2-9-2 to 13-0-0, Zone2 13-0-0 to 18-9-8, Zone1 18-9-8 to 28-4-0, Zone2 28-4-0 to 34-1-8, Zone1 34-1-8 to 40-11-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=805, 8=743

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Date:

July 22,2025

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

Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	T20	Hip	1	1		T37977620

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:04 2025 Page 1

ID:j8MwDmkyv3T3w_0vQT0Z5Uyww6m-loR5PpriOYe3lxph7oDR9YbJPsYJ5nV7ex3WhuyvsFP

Job Reference (optional)

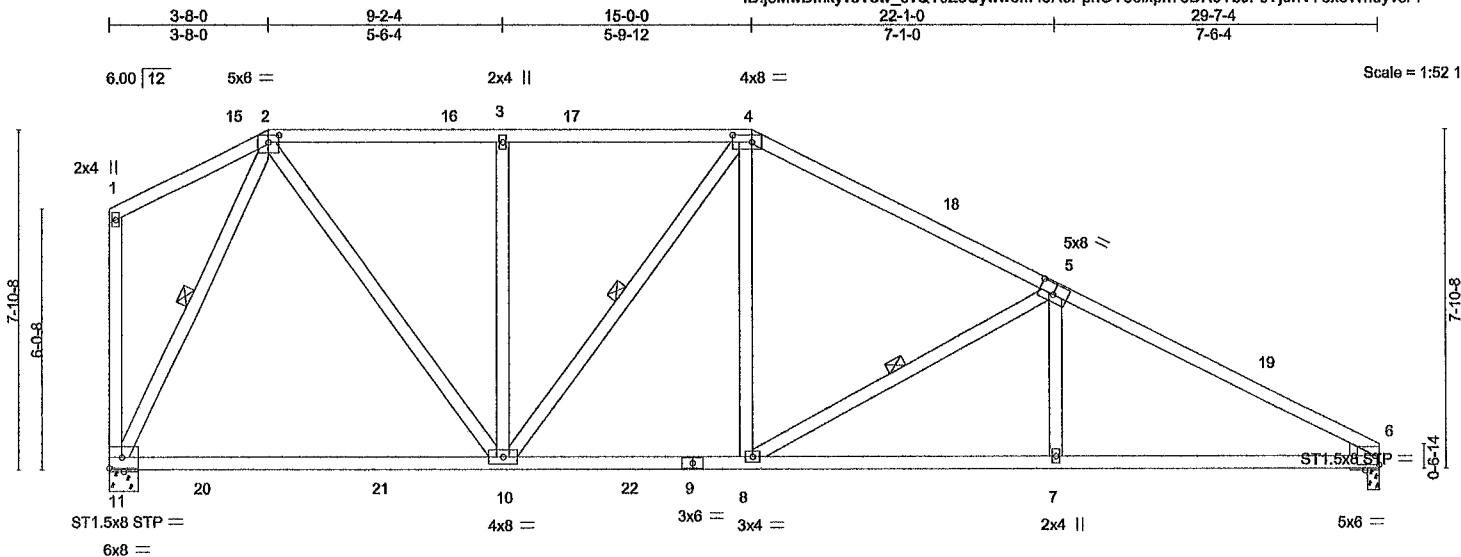


Plate Offsets (X,Y)--	[2:0-3-0,0-2-0], [4:0-5-4,0-2-0], [5:0-4-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20 0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 10 0	Plate Grip DOL 1.25	BC 0.96	Vert(LL) -0.34 10-11 >999 240		
BCLL 0 0 *	Lumber DOL 1.25	WB 0.79	Vert(CT) -0.55 10-11 >638 180		
BCDL 10 0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 179 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-10, 5-8, 2-11

REACTIONS.

(size) 11=0-8-0, 6=0-3-4
Max Horz 11=364(LC 13)
Max Uplift 11=491(LC 13), 6=561(LC 13)
Max Grav 11=1329(LC 2), 6=1279(LC 2)

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

TOP CHORD 2-3=-1143/547, 3-4=-1143/547, 4-5=-1526/691, 5-6=-2181/937
BOT CHORD 10-11=-118/576, 8-10=-287/1296, 7-8=-718/1886, 6-7=-718/1885
WEBS 2-10=-467/1074, 3-10=-389/323, 4-10=-303/254, 4-8=-210/555, 5-8=-700/507, 5-7=0/297, 2-11=-1168/537

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCp=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 3-8-0, Zone2 3-8-0 to 7-10-15, Zone1 7-10-15 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-7-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=491, 6=561

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.

July 22,2025

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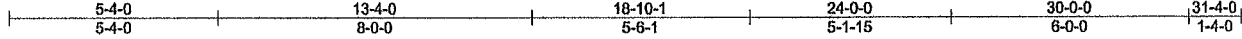
Job 4461126	Truss T21	Truss Type Hip	Qty 1	Ply 1	LOT 9 FV	T37977621
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:04 2025 Page 1

ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-ioR5PpriOYe3ixph7oDR9YbDfsYX5nR7ex3WhuysFP

Job Reference (optional)



Scale = 1,56.6

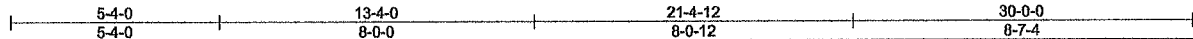
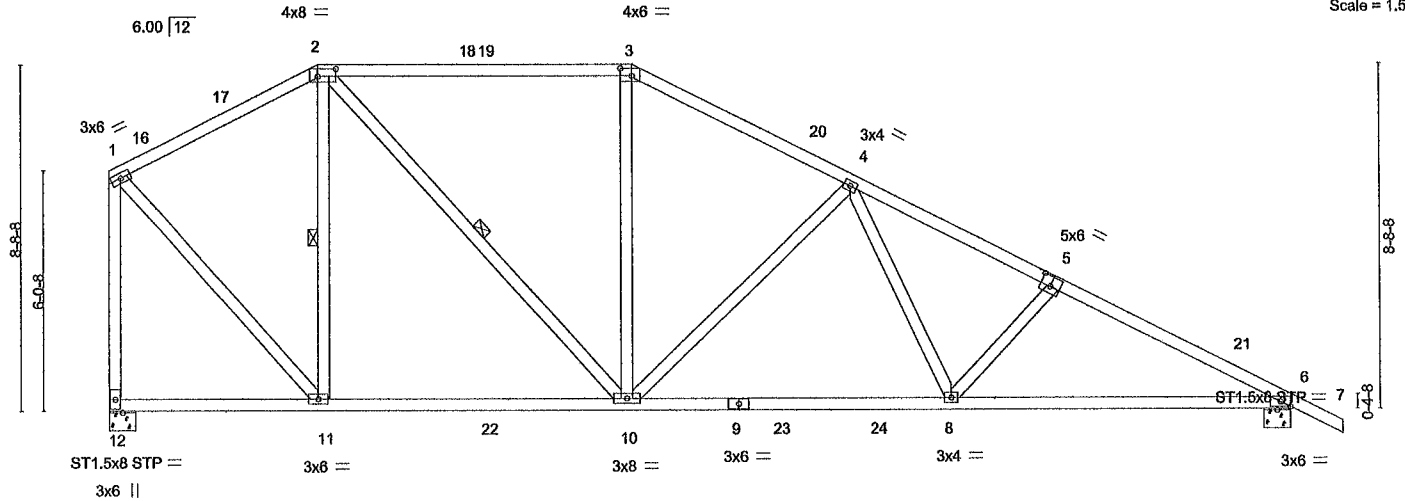


Plate Offsets (X,Y)-- [2-0-5-8,0-2-4], [3-0-3-8,0-2-4], [5-0-3-0,0-3-0], [6-0-2-15,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	-0.16	8-10	>999	240	MT20	244/190
TCDL 10 0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.28	8-10	>999	180		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.05	6	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014		Matrix-MS						Weight: 182 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals
BOT CHORD Rigid ceiling directly applied or 6-7-0 oc bracing
WEBS 1 Row at midpt 2-11, 2-10

REACTIONS.

(size) 12=0-8-0, 6=0-8-0
Max Horz 12=-430(LC 13)
Max Uplift 12=-504(LC 13), 6=-622(LC 13)
Max Grav 12=1329(LC 2), 6=1375(LC 2)

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

TOP CHORD 1-2=-869/394, 2-3=-1198/650, 3-4=-1395/651, 4-5=-2174/955, 5-6=-2351/1013,
1-12=-1264/572
BOT CHORD 11-12=-128/426, 10-11=-105/779, 8-10=-472/1644, 6-8=-774/2070
WEBS 2-11=-556/346, 2-10=-422/718, 3-10=-16/306, 4-10=-650/477, 4-8=-225/596,
5-8=-320/323, 1-11=-412/1069

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpl=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-1-12, Zone1 3-1-12 to 5-4-0, Zone2 5-4-0 to 9-6-15, Zone1 9-6-15 to 13-4-0, Zone2 13-4-0 to 17-6-15, Zone1 17-6-15 to 31-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10 0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=504, 6=622

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
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22,2025



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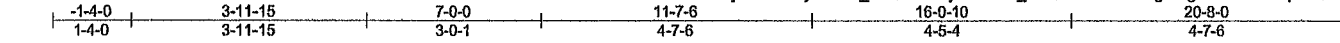
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Job 4461126	Truss T22	Truss Type Half Hip Girder	Qty 1	Ply 1	LOT 9 FV	T37977622
Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:05 2025 Page 1						
Job Reference (optional)						

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:05 2025 Page 1
ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-A_?Tc8rK9mmwK50tgWkgm8RWGxGqGHGtp4DLyvsFO



Scale = 1:38.0

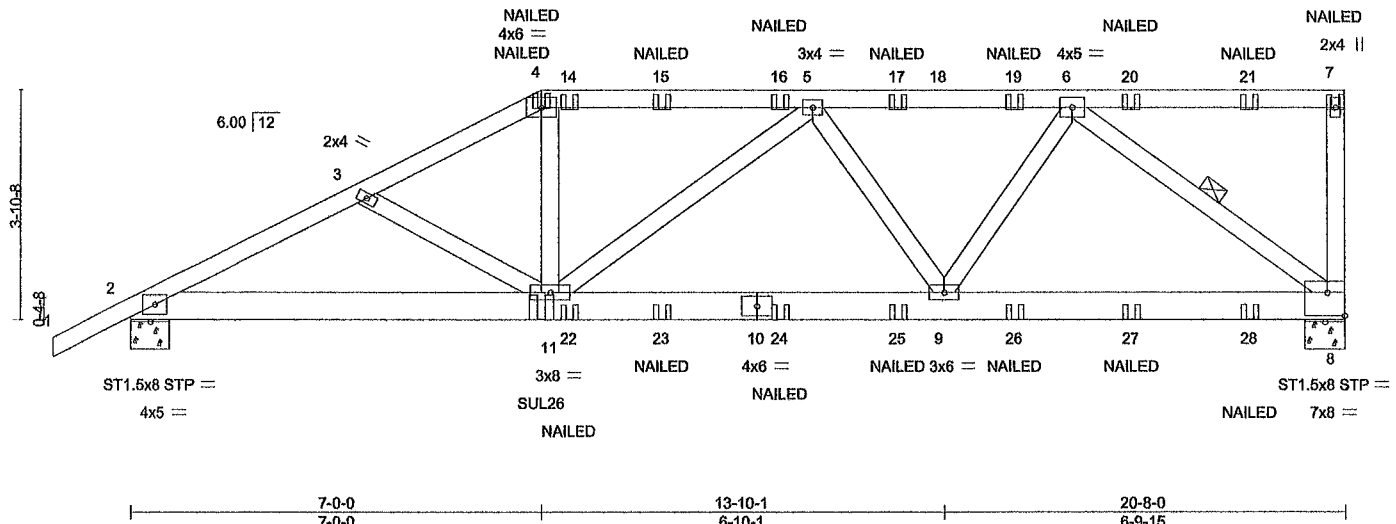


Plate Offsets (X,Y)-- [8.Edge,0-4-12]		7-0-0		13-10-1		20-8-0	
LOADING (psf)		SPACING-		CSI.		DEFL.	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.80	in (loc)	L/d
TCDL	10.0	Lumber DOL	1.25	BC	0.68	9-11	>999
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	9-11	>999
BCDL	10.0	Code	FBC2023/TP12014	Matrix-MS		8	n/a
						PLATES	
						MT20	
						GRIP	
						244/190	
						Weight: 124 lb	
						FT = 20%	

LUMBER-

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

REACTIONS.

(size) 8=0-8-0, 2=0-8-0
Max Horz 2=236(LC 29)
Max Uplift 8=1753(LC 5), 2=1291(LC 5)
Max Grav 8=1950(LC 1), 2=1630(LC 1)

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

TOP CHORD 2-3=-3094/2576, 3-4=-2905/2534, 4-5=-2606/2325, 5-6=-2437/2191, 7-8=-364/322
BOT CHORD 2-11=-2381/2730, 9-11=-2457/2745, 8-9=-1687/1884
WEBS 3-11=-218/258, 4-11=-704/798, 5-9=-574/528, 6-9=-941/1035, 6-8=-2343/2098

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCp=0.18, MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1753, 2=1291
- Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg. to the left, sloping 0 0 deg. down
- Fill all nail holes where hanger is in contact with lumber
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") 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 (plf)
Vert: 1-4=-60, 4-7=-60, 2-8=-20

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

July 22,2025

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977622
4461126	T22	Half Hip Girder	1	1	Job Reference (optional)	

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:05 2025 Page 2
ID:j8MwDmkYv3T3w_0vQT0Z5Uyww6m-A_?Tc8rK9rmwK5OtGwkgim8RWGxGqGHGibp4DLyvsFO

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-84(F) 7=-150(F) 11=-295(F) 14=-124(F) 15=-124(F) 16=-124(F) 17=-124(F) 19=-124(F) 20=-124(F) 21=-124(F) 22=-66(F) 23=-66(F) 24=-66(F) 25=-66(F)
26=-66(F) 27=-66(F) 28=-66(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. 59126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22, 2025



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8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:06 2025 Page 1
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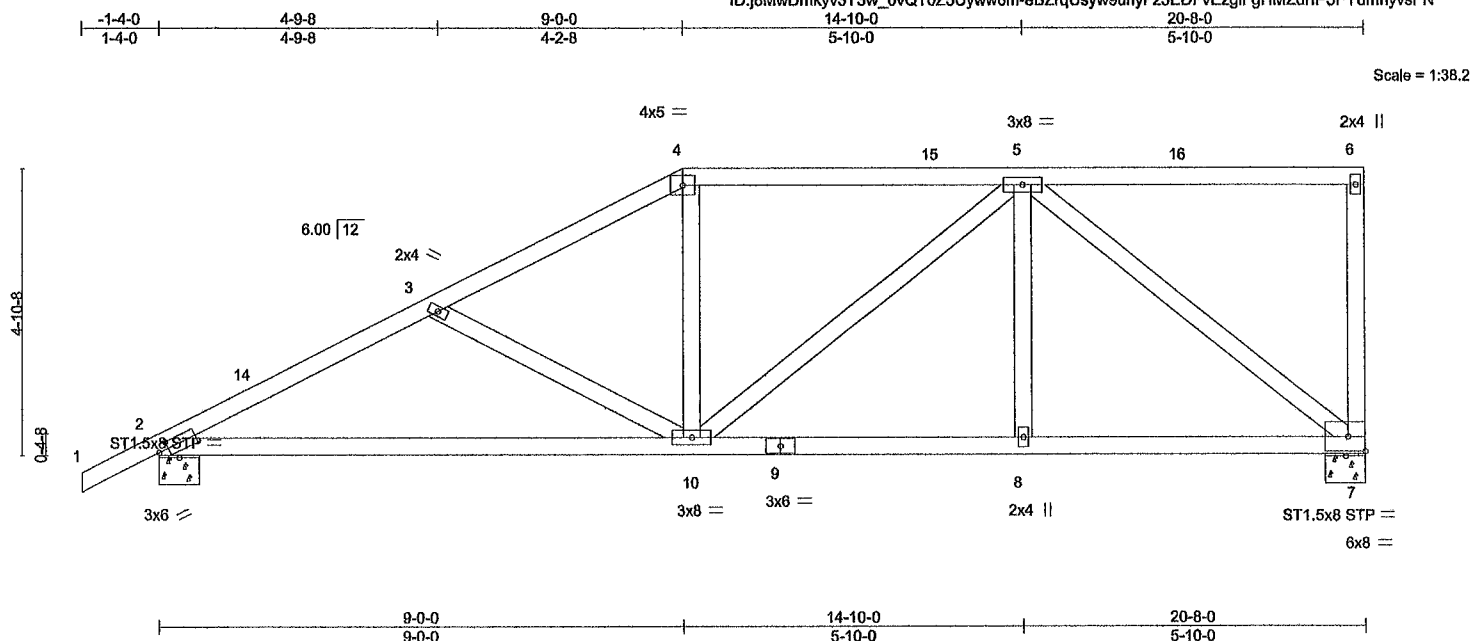


Plate Offsets (X,Y)-- [2-0-1-15,0-1-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20 0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0 24 10-13 >999	240	MT20 244/190
TCDL	10 0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.30 10-13 >820	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.03 7 n/a	n/a	
BCDL	10 0	Code FBC2023/TPI2014		Matrix-MS					Weight. 112 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 4-8-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-9-12 oc bracing

REACTIONS.

(size) 7=0-8-0, 2=0-8-0
Max Horz 2=294(LC 12)
Max Uplift 7=-700(LC 9), 2=-577(LC 9)
Max Grav 7=818(LC 1), 2=903(LC 1)

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

TOP CHORD 2-3=-1400/1146, 3-4=-1104/963, 4-5=-936/913
BOT CHORD 2-10=-1208/1226, 8-10=-722/789, 7-8=-722/789
WEBS 3-10=-336/343, 4-10=-252/284, 5-7=-991/907

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCp=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1.4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 20-6-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=700. 2=577

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 Swagley Ridge Rd. Chesterfield, MO 63017
Date:

July 22, 2025



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Job 4461126	Truss T24	Truss Type Half Hip	Qty 1	Ply 1	LOT 9 FV	T37977624
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

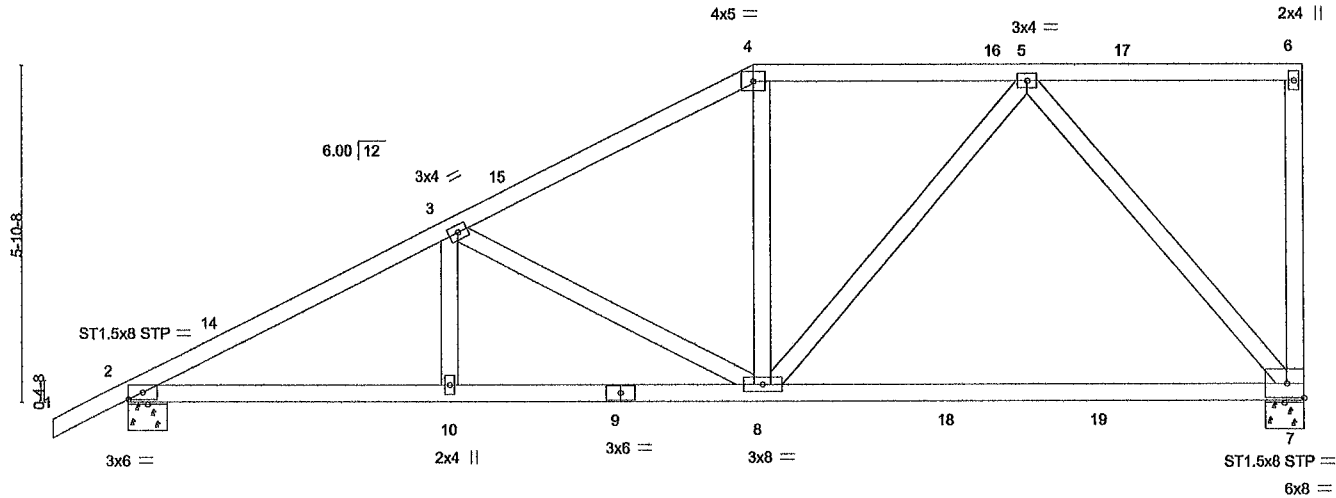
8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:06 2025 Page 1

ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-eBZrqUsw9unyFz3EDFvEzg7gDLZf2P5FYdmnyvsFN

Job Reference (optional)



Scale = 1.39.2



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.62	Vert(LL) -0.33	7-8	>743	240	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.56	7-8	>439	180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.03	7	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS					Weight: 115 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 4-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing

REACTIONS.

(size) 7=0-8-0, 2=0-8-0
Max Horz 2=352(LC 12)
Max Uplift 7=686(LC 9), 2=545(LC 9)
Max Grav 7=901(LC 2), 2=950(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-1492/1141, 3-4=-1035/801, 4-5=-870/776
BOT CHORD 2-10=-1223/1303, 8-10=-1223/1303, 7-8=-483/560
WEBS 3-8=-497/511, 5-8=-455/482, 5-7=-828/718

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C; Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 20-6-4 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.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jl=lb) 7=686, 2=545

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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:

July 22, 2025

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 4461126	Truss T25	Truss Type Hip Girder	Qty 1	Ply 3	LOT 9 FV	T37977625
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:07 2025 Page 1

ID:j8MwDmkv3T3w_0vQT0Z5Uyww6m-8N7D1qlahT0eZPYFoxm8nBDts4jNlCiZKvIBIDyvsFM

Job Reference (optional)

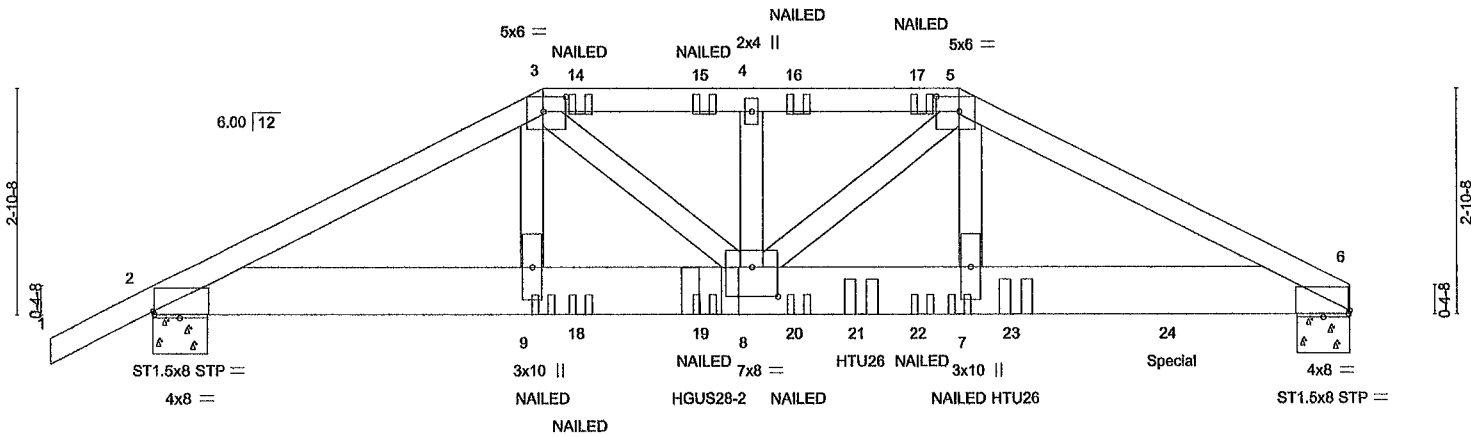
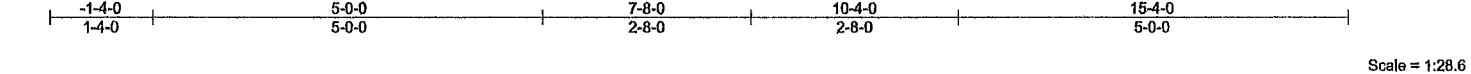


Plate Offsets (X, Y) -	[2-0-0-3, 0-0-8], [3-0-3-8, 0-2-4], [5-0-3-8, 0-2-4], [6-0-0-3, 0-0-8], [8-0-4-0, 0-4-8]
------------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2.0-0	TC 0.43	Vert(LL) 0.13	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.32	Vert(CT) -0.16		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.03		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			
				Weight: 278 lb	FT = 20%

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

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

REACTIONS. (size) 6=0-8-0, 2=0-8-0
Max Horz 2=96(LC 29)
Max Uplift 6=-3478(LC 9), 2=-2764(LC 8)
Max Grav 6=5997(LC 1), 2=4212(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-9039/5988, 3-4=-10841/7107, 4-5=-10841/7107, 5-6=-11266/6778
BOT CHORD 2-9=-5314/8035, 8-9=-5264/7967, 7-8=-5859/9814, 6-7=-5965/10040
WEBS 3-9=-829/1131, 3-8=-2516/3951, 5-8=-1620/1464, 5-7=-1761/3777

NOTES-

- 3-ply truss to be connected together with 10d (0 131"x3") nails as follows.
Top chords connected as follows. 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows. 2x8 - 3 rows staggered at 0-5-0 oc.
Webs connected as follows. 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp C, Encl , GCPl=0.18, MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=3478, 2=2764.
- Use Simpson Strong-Tie HGUS28-2 (36-16d Girder, 12-16d Truss) or equivalent at 7-1-9 from the left end to connect truss(es) to back face of bottom chord
- Use Simpson Strong-Tie HTU26 (10-10d Girder, 20-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0 148"x3.25") toe-nails per NDS guidelines
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1766 lb down and 763 lb up at 13-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

LOAD CASE(S) - Standard

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

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 22, 2025

MiTek®
16023 Swingley Ridge Rd.
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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	T25	Hip Girder	1	3	Job Reference (optional)	T37977625

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8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:07 2025 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 5-6=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-61(F) 7=-61(F) 14=-66(F) 15=-66(F) 16=-66(F) 17=-66(F) 18=-41(F) 19=-3545(F=-41, B=-3504) 20=-41(F) 21=-1616(B) 22=-41(F) 23=-1616(B)
24=-1616(B)

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July 22,2025



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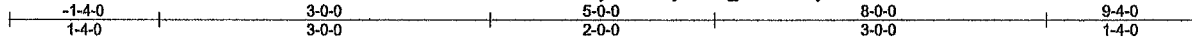
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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	
4461126	T26	Hip Girder	1	1		T37977626

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

8.830 s Jun 11 2025 MITek Industries, Inc. Mon Jul 21 11:24:08 2025 Page 1

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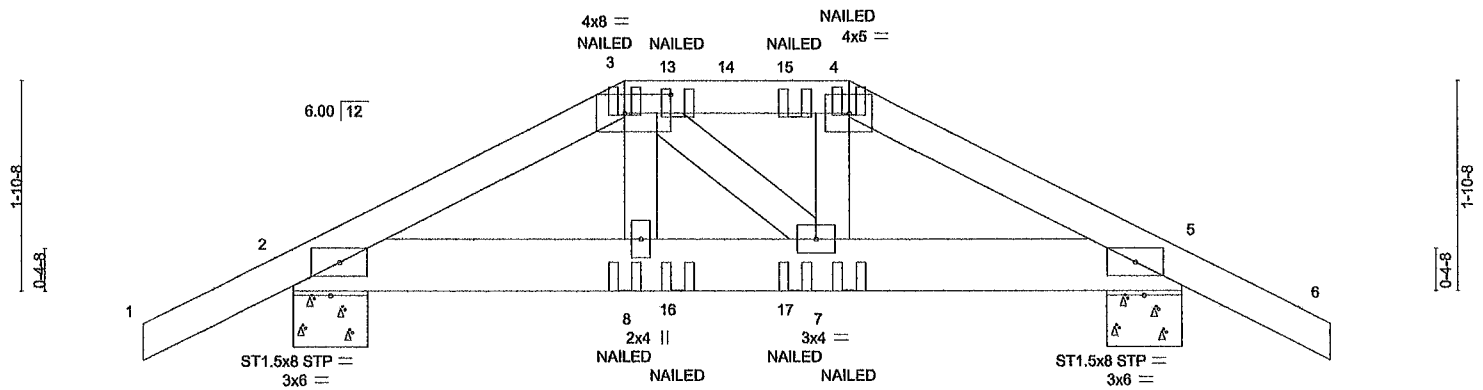


Plate Offsets (X,Y)--		[3:0-5-0,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20 0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	0.01	8	>999	240	MT20	244/190	
TCDL 10 0	Lumber DOL	1.25	BC 0.12	Vert(CT)	-0.01	8	>999	180			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	5	n/a	n/a			
BCDL 10 0	Code FBC2023/TPI2014		Matrix-MS						Weight: 43 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS.

(size) 2=0-8-0, 5=0-8-0
Max Horz 2=-54(LC 34)
Max Uplift 2=-304(LC 8), 5=-304(LC 9)
Max Grav 2=445(LC 1), 5=445(LC 1)

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

TOP CHORD 2-3=-539/397, 3-4=-463/385, 4-5=-538/395
BOT CHORD 2-8=-320/511, 7-8=-328/520, 5-7=-298/498

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp C, Encl , GCpl=0.18, MWFRS (envelope) gable end zone, 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=304, 5=304
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") 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

1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-11(F) 4=-11(F) 8=-15(F) 7=-15(F) 13=-8(F) 15=-8(F) 16=-12(F) 17=-12(F)

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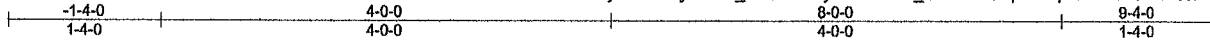
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Job	Truss	Truss Type	Qty	Ply	LOT 9 FV	T37977627
4461126	T27	Common	1	1		

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

8.830 s Jun 11 2025 MiTek Industries, Inc. Mon Jul 21 11:24:09 2025 Page 1

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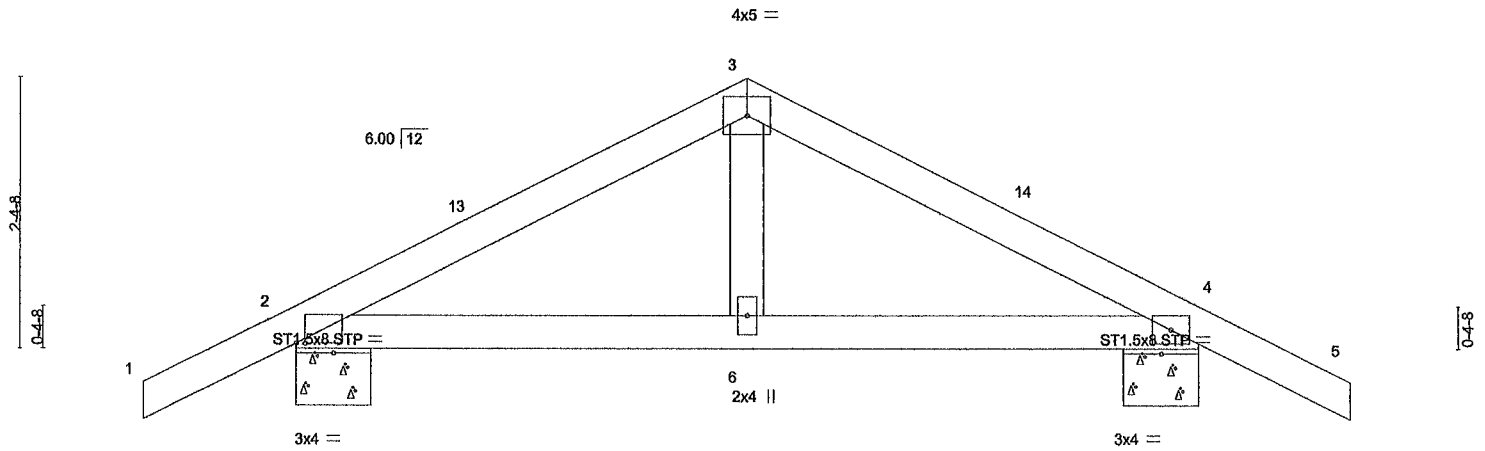


Plate Offsets (X,Y)-- [2'-0-0-15,0-0-0]		4-0-0 4-0-0		8-0-0 4-0-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL 20 0	Plate Grip DOL	1.25	TC 0.31	in (loc) l/defl L/d	MT20
TCDL 10 0	Lumber DOL	1.25	BC 0.17	Vert(LL) 0.02 6-12 >999 240	GRIP 244/190
BCLL 0 0 *	Rep Stress Incr	YES	WB 0.07	Vert(CT) -0.02 6-9 >999 180	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS	Horz(CT) 0.00 4 n/a n/a	
				Weight. 33 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
BOT CHORD Rigid ceiling directly applied or 9-7-3 oc bracing

REACTIONS. (size) 2=0-8-0, 4=0-8-0
Max Horz 2=67(LC 17)
Max Uplift 2=200(LC 12), 4=200(LC 13)
Max Grav 2=400(LC 1), 4=400(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-3=-409/589, 3-4=-409/589
BOT CHORD 2-6=-339/325, 4-6=-339/325

NOTES-

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-22, Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf, BCDL=3.0psf, h=20ft; Cat. II; Exp C, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 9-4-0 zone, porch left and right exposed; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=200, 4=200

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Date:

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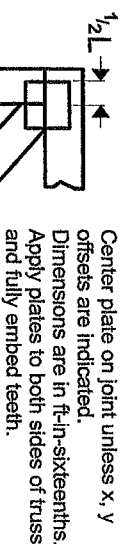
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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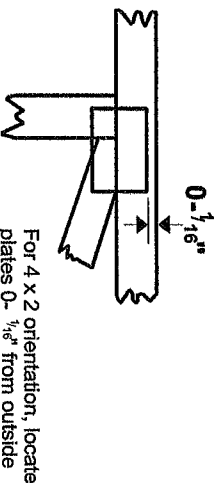
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Symbols

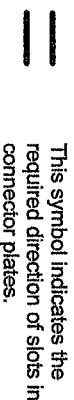
PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

PLATE SIZE

4 X 4

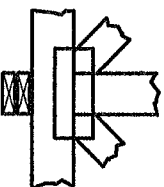
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

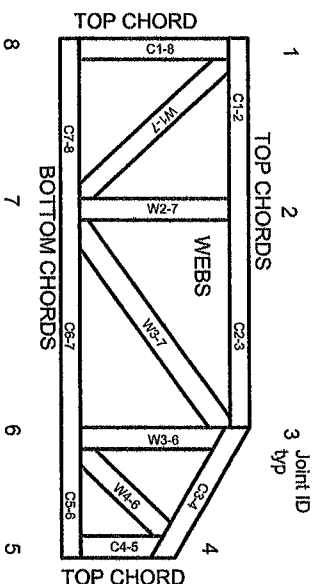


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22 Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

MITtek®

MITtek Engineering Reference Sheet. MII-7473 rev. 1/2/2023

WARNING
Backcharges Will Not Be Accepted
Regardless of Fault Without Prior
Notification By Customer Within 48
Hours And Investigation By
Builders FirstSource.
NO EXCEPTIONS.

THIS DRAWING MUST BE APPROVED AND RETURNED BEFORE FABRICATION WILL BEGIN. FOR YOUR PROTECTION CHECK ALL DIMENSIONS AND CONDITIONS PRIOR TO APPROVAL OF PLAN.

By _____ Date _____

FINAL LAYOUT FOR PRODUCTION

Initial: _____ Date: _____
Requested Delivery Date: _____

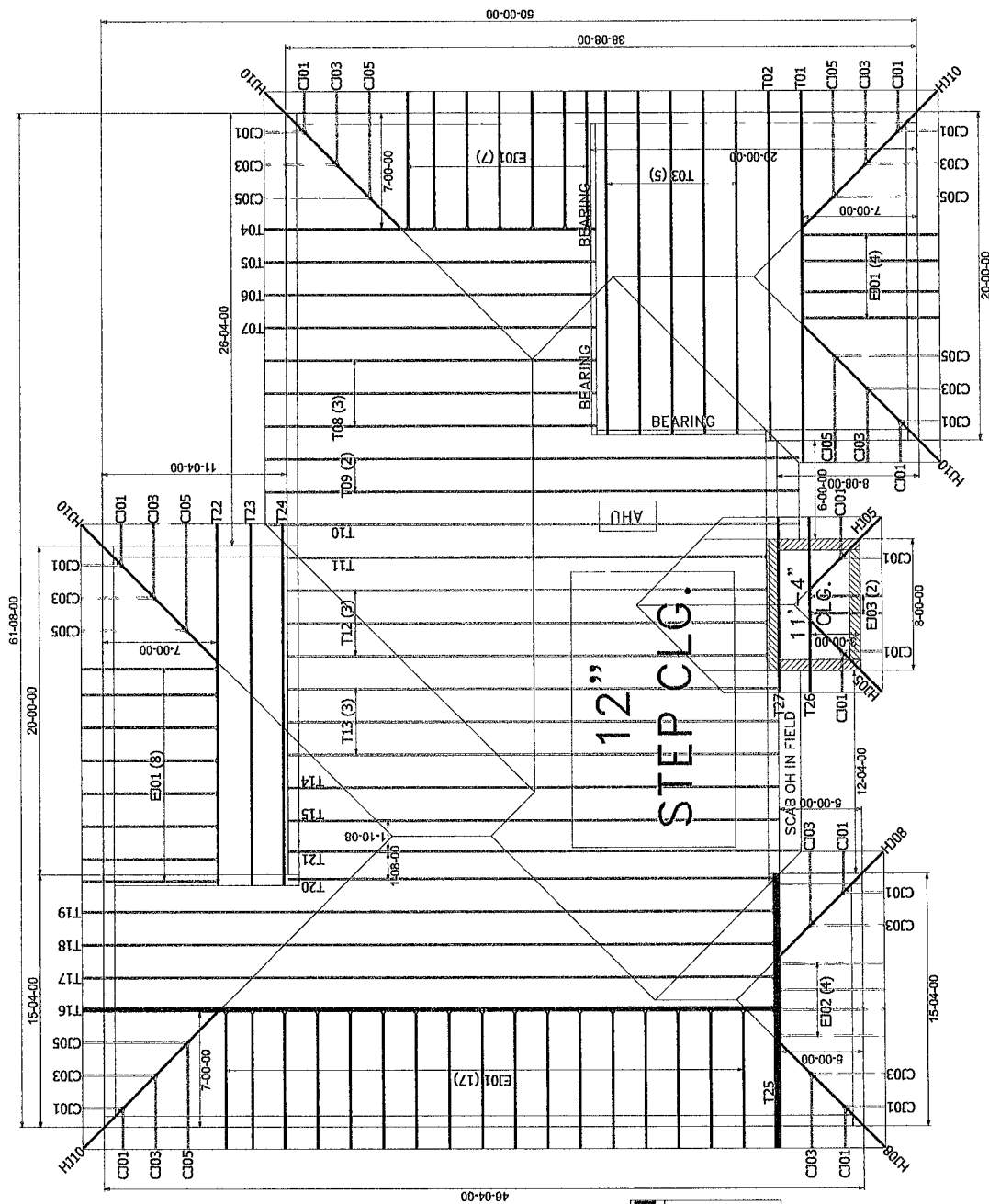
ROOF LOADING:		FLOOR LOADING:	
TELL	25	TELL	15
TOTAL	15	TOTAL	15
CELL	0	CELL	0
TELL	10	TELL	10
TOTAL	10	TOTAL	10
DURATION:	1.25	DURATION:	1.25

ROOF PITCH: 6/12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 16"
END CUT: PLUMB
CANTLEVER: N/A
TRUSS SPACING: 24"

BEARING HEIGHT SCHEDULE

Yasmanis Reyes		1826 MODIFIED	
MODEL	LEV	HIP	
ADDRESS:	TBD		
OT / BLOCK:	9		
SUBDIVISION:	FAIRWAY VIEW SPB HSE		
TRAFFIC	Lake City		
RW BY	Holloway, Kim		
JOB #	4461126		
DATE:	7/21/2025	SCALE:	N.T.S.

REVIEWS:

[illegible]

Hatch Legend

Q'0"

11-4"

Summaries of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assumptions (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design project, including the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.