



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

RE: 4894002 - TOLAR RES.

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Tolar Res Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Lake City, State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 17 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	T38828911	T01	10/13/25	15	T38828925	T10G	10/13/25
2	T38828912	T01G	10/13/25	16	T38828926	T11	10/13/25
3	T38828913	T01GG	10/13/25	17	T38828927	T11G	10/13/25
4	T38828914	T02	10/13/25				
5	T38828915	T03	10/13/25				
6	T38828916	T03G	10/13/25				
7	T38828917	T04	10/13/25				
8	T38828918	T05	10/13/25				
9	T38828919	T06	10/13/25				
10	T38828920	T06G	10/13/25				
11	T38828921	T07	10/13/25				
12	T38828922	T08	10/13/25				
13	T38828923	T09	10/13/25				
14	T38828924	T10	10/13/25				



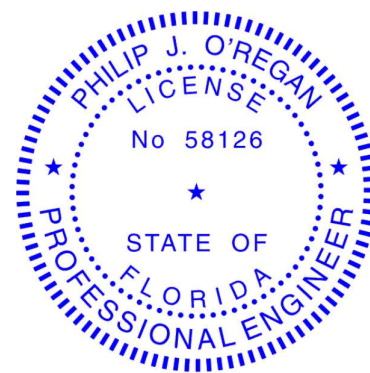
This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

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

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2027.

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



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

October 13,2025

ORegan, Philip

1 of 1

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828911
4894002	T01	Common	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:28 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-Pn8KWohaXWBOSj9wln8TkQnd087KnTYeH_o_y9yU7J5		
-1-6-0	5-11-12	11-8-0
1-6-0	5-11-12	5-8-4
		17-4-4
		5-8-4
		23-4-0
		5-11-12
		24-10-0
		1-6-0

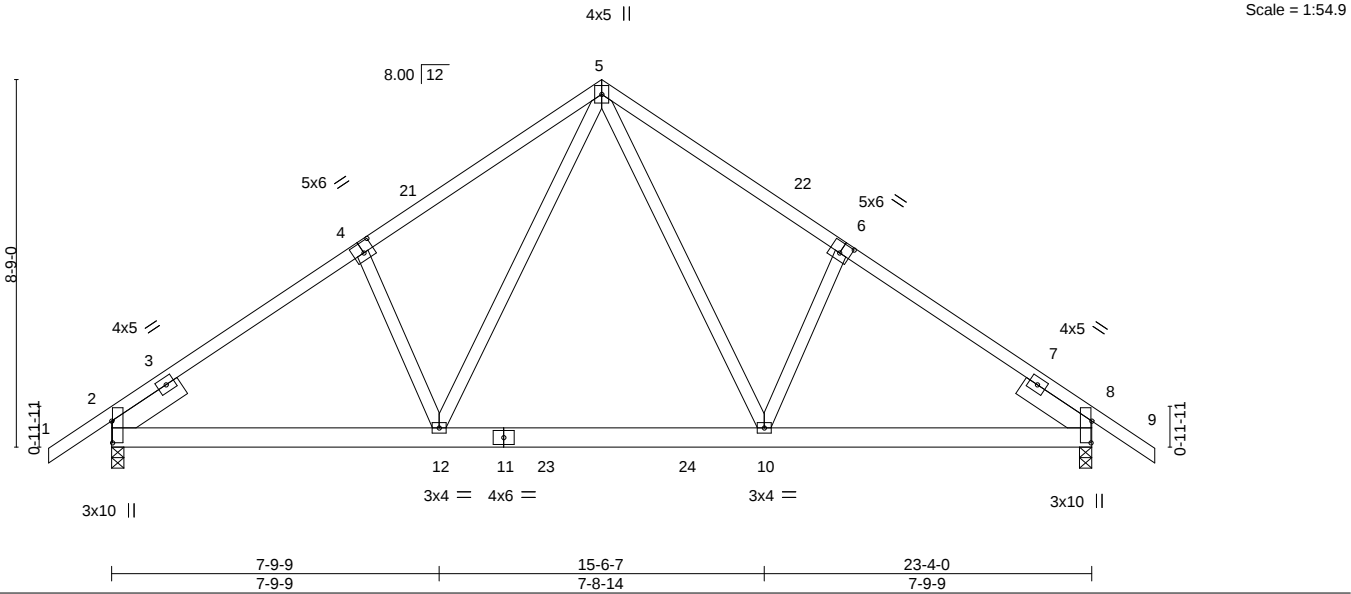


Plate Offsets (X,Y)--		[2:0-6-3,0-0-4], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:0-6-3,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66
TCDL 10.0	Lumber DOL	1.25	BC 0.70
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc)
			I/defl
			L/d
			PLATES
			GRIP
			MT20
			244/190
			Weight: 151 lb
			FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-217(LC 10)
Max Uplift 2=-317(LC 12), 8=-317(LC 13)
Max Grav 2=1380(LC 19), 8=1380(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1728/400, 4-5=-1655/472, 5-6=-1655/472, 6-8=-1728/400
BOT CHORD 2-12=-352/1511, 10-12=-146/1040, 8-10=-236/1382
WEBS 5-10=-277/867, 6-10=-277/233, 5-12=-277/867, 4-12=-277/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 24-10-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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 317 lb uplift at joint 2 and 317 lb uplift at joint 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: 1-5=-60, 5-9=-60, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

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

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

October 13,2025

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

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

MiTek®
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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828912
4894002	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:29 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-uzijk7iCipJF4tk6sVfiHdKvyYb0WyJoWeYXUbyU7J4

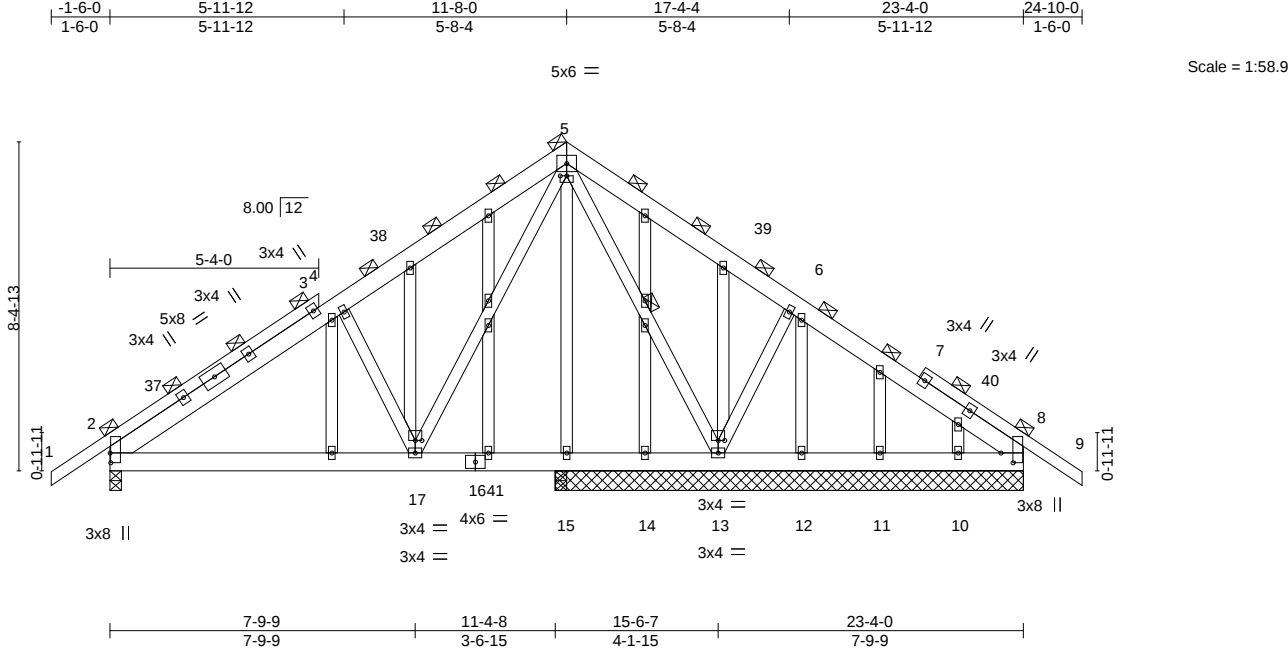


Plate Offsets (X,Y)--		[2:0-3-0,0-0-3], [5:0-2-0,0-0-0], [8:0-3-0,0-3-11], [13:0-2-0,0-0-0], [17:0-2-0,0-0-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20
TCDL 10.0	Lumber DOL	1.25	BC 0.23
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.02 17-31 >999 240
		Vert(CT)	-0.04 17-31 >999 180
		Horz(CT)	0.01 33 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 234 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 1-3,7-9: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-13
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 11-11-8 except (jt=length) 2=0-3-8, 15=0-3-8, 15=0-3-8.
(lb) - Max Horz 2=-206(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 8, 14, 10, 15 except 2=-179(LC 12), 13=-260(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 12, 11, 10, 15, 15 except 2=739(LC 19), 8=292(LC 26), 13=845(LC 1), 8=272(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-697/170, 4-5=-607/228
BOT CHORD 2-17=-179/684, 15-17=-48/277, 14-15=-48/277, 13-14=-48/277
WEBS 5-13=-592/155, 6-13=-349/250, 5-17=-197/574, 4-17=-378/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 24-10-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14, 10, 15, 8 except (jt=lb) 2=179, 13=260.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

October 13,2025

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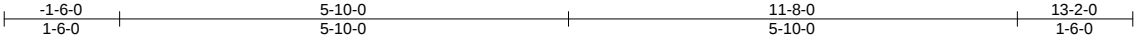
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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Job	Truss	Truss Type	Qty	Ply	TOLAR RES.
4894002	T01GG	Common Supported Gable	1	1	T38828913

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:29 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-uzijk7iCpJF4tk6sVfiHdKwnYe7W06oWeYXUbyU7J4



5x6 =

Scale = 1:29.9



Plate Offsets (X,Y)--		[2:0-3-0,0-0-3], [3:0-7-11,0-1-4], [9:0-7-11,0-1-4], [10:0-3-0,0-0-11]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.01 11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01 11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00 10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S						Weight: 79 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,8-11: 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 11-8-0.
(lb) - Max Horz 2=110(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 10, 15, 16, 13, 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

October 13,2025

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828914
4894002	T02	Common	5	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:30 2025 Page 1
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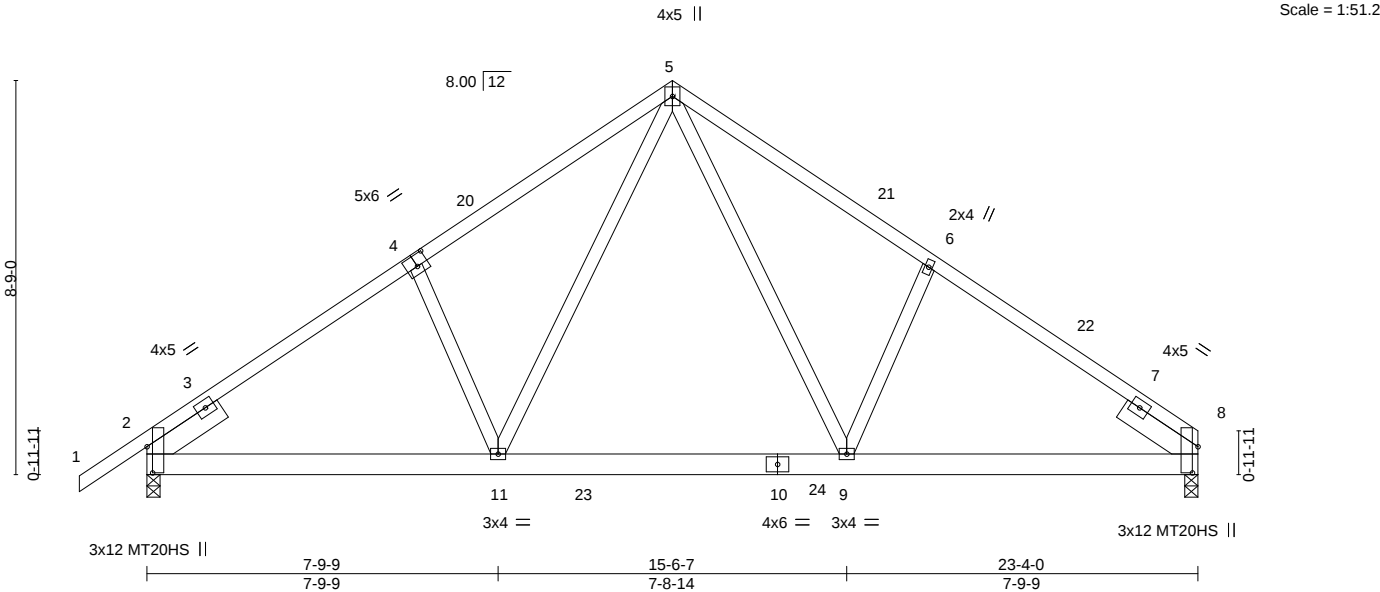


Plate Offsets (X,Y)-- [2:0-7-0,0-1-8], [4:0-3-0,0-3-0], [8:0-7-0,0-1-8]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.66	Vert(LL) -0.13	9-11	>999	240		MT20 244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.70	Vert(CT) -0.25	9-11	>999	180		MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr NO		WB 0.45	Horz(CT) 0.04	8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 148 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=209(LC 11)
Max Uplift 8=279(LC 13), 2=317(LC 12)
Max Grav 8=1293(LC 20), 2=1382(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1731/400, 4-5=-1658/472, 5-6=-1668/477, 6-8=-1740/405
BOT CHORD 2-11=-369/1500, 9-11=-163/1030, 8-9=-254/1378
WEBS 5-9=-282/880, 6-9=-281/235, 5-11=-276/865, 4-11=-277/233

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-8-0, Zone2 11-8-0 to 15-10-15, Zone1 15-10-15 to 23-4-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=279, 2=317.
 - 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: 1-5=-60, 5-8=-60, 11-16=-20, 9-11=-80(F=-60), 9-12=-20

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

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Job	Truss	Truss Type	Qty	Ply	TOLAR RES.
4894002	T03	Common	5	1	T38828915

Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,	8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:31 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-qMpT9pkTqRZzJBuVzvHAM2P99MA3_nM5zy1eZUyU7J2		
-1-6-0 1-6-0	5-5-13 5-5-13	10-7-15 5-2-2
		17-0-0 6-4-1
		23-7-8 6-7-8

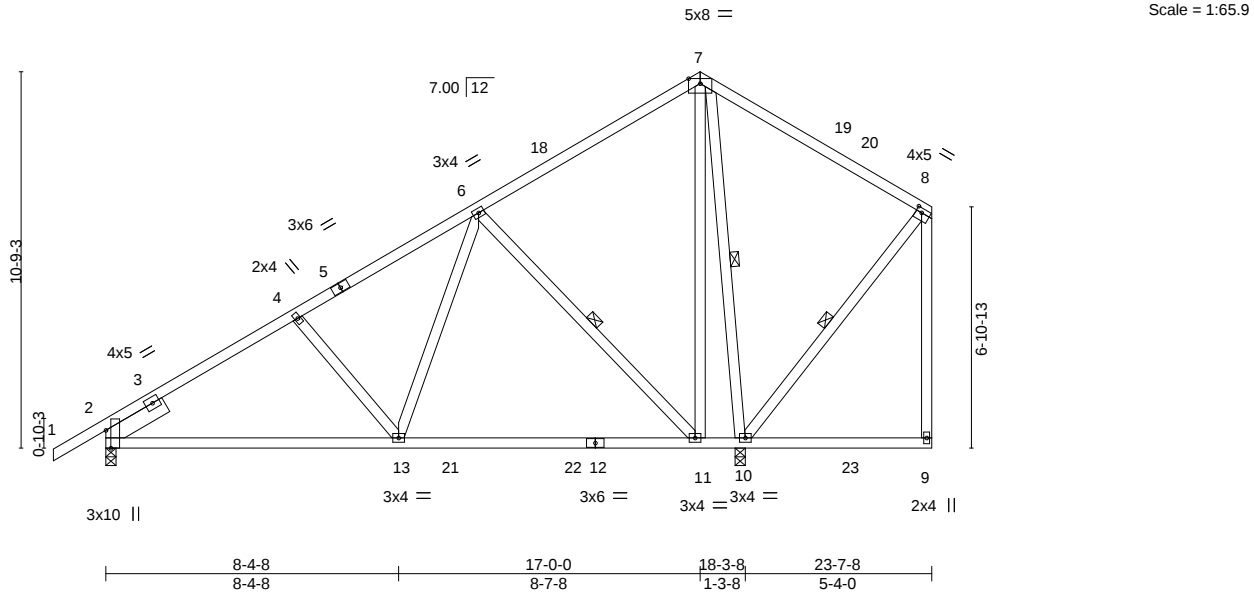


Plate Offsets (X,Y)--		[2:0-6-2,Edge], [8:0-2-0,0-1-8]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 10.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code	FBC2023/TPI2014
	CSI.	
	TC 0.60	
	BC 0.70	
	WB 0.63	
	Matrix-MS	
	DEFL.	
	in (loc)	I/defl
	Vert(LL)	-0.18 11-13 >999 240
	Vert(CT)	-0.30 11-13 >718 180
	Horz(CT)	0.02 10 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 165 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-11, 7-10, 8-10
SLIDER Left 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=329(LC 12)
Max Uplift 2=-175(LC 12), 10=-322(LC 12)
Max Grav 2=859(LC 19), 10=1432(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-909/170, 4-6=-787/164
BOT CHORD 2-13=-373/877, 11-13=-223/534
WEBS 4-13=-253/185, 6-13=-104/573, 6-11=-749/315, 7-11=-157/754, 7-10=-1170/271

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 23-5-12 zone; cantilever right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=175, 10=322.

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

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

October 13,2025

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

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

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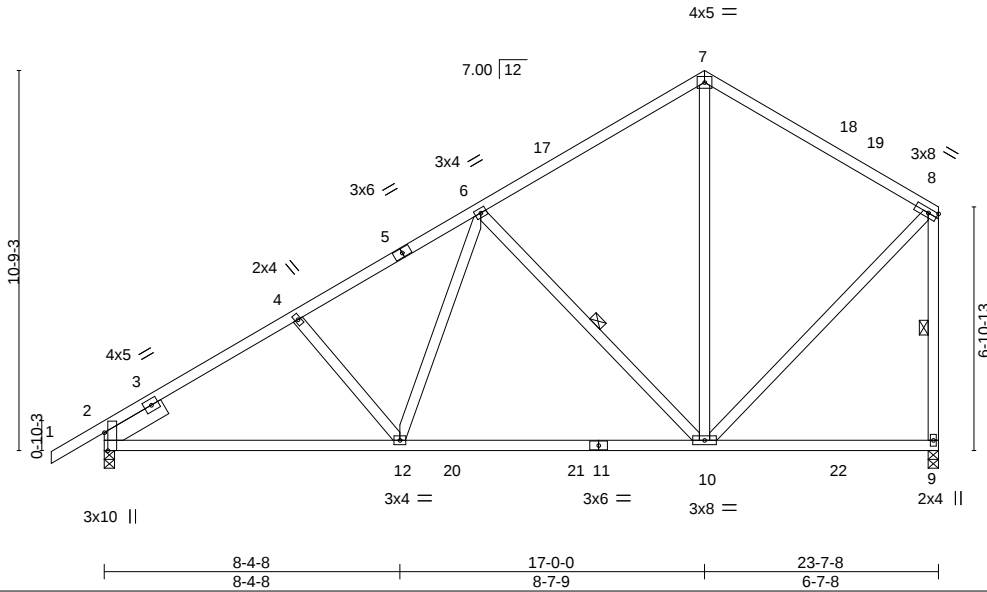
Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828917
4894002	T04	Common	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:32 2025 Page 1

ID:O2LeeknYtKA1YUCwnh0sAryU8o7-IYNrM9I5bkhqxLThXdCPvGyKhIVXjJXECcmB5wyU7J1



Scale = 1:65.2

Plate Offsets (X,Y)-- [2:0-6-2,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	in (loc)	I/defl	L/d	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(LL)	-0.19 10-12	>999	240
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Vert(CT)	-0.31 10-12	>911	180
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS		Horz(CT)	0.03 9	n/a	n/a
								Weight: 152 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-6-8 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-10, 8-9
SLIDER	Left 2x6 SP No.2 1-11-8		

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=329(LC 12)
Max Uplift 2=-248(LC 12), 9=-249(LC 12)
Max Grav 2=1185(LC 19), 9=1114(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1485/296, 4-6=-1353/291, 6-7=-675/181, 7-8=-702/206, 8-9=-1000/263
BOT CHORD 2-12=-478/1341, 10-12=-338/1047
WEBS 6-12=-91/510, 6-10=-718/308, 7-10=-46/316, 8-10=-178/779

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 23-5-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=248, 9=249.

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

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

October 13,2025

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Job	Truss	Truss Type	Qty	Ply	TOLAR RES.
4894002	T05	Roof Special	4	1	

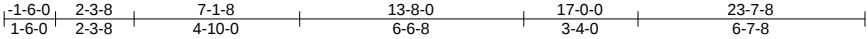
T38828918

Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:33 2025 Page 1

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Scale = 1:67.2

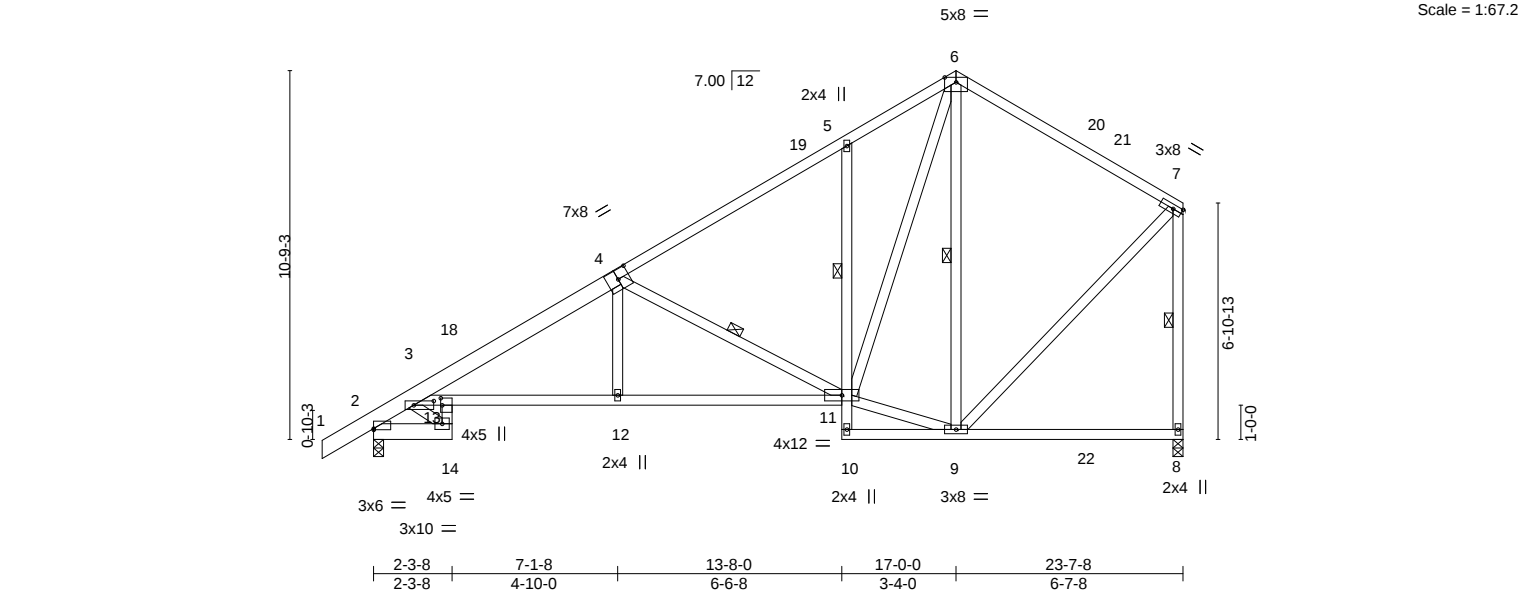


Plate Offsets (X,Y)--		[2:0-0-0,0-0-6], [3:0-7-0,0-1-8], [4:0-4-0,0-3-4], [13:0-2-8,0-0-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.25	BC 0.54	Vert(LL) 0.16 12-13 >999 240
BCLL 0.0 *	Lumber DOL 1.25	WB 0.75	Vert(CT) -0.28 12-13 >999 180
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.13 8 n/a n/a
	Code FBC2023/TP12014		
			PLATES GRIP
			MT20 244/190
			Weight: 178 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 1-4: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3 *Except* 2-14: 2x6 SP No.2 3-11: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31 8-10: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 9-8-5 oc bracing: 12-13 6-0-0 oc bracing: 9-10.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-11 1 Row at midpt 4-11, 6-9, 7-8
REACTIONS.	(size) 2=0-3-8, 8=0-3-8 Max Horz 2=333(LC 12) Max Uplift 2=249(LC 12), 8=248(LC 12) Max Grav 2=1175(LC 19), 8=1089(LC 19)		
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.		
TOP CHORD	3-16=993/150, 3-4=1853/416, 4-5=1032/247, 5-6=1000/362, 6-7=673/206, 7-8=958/264		
BOT CHORD	2-14=326/644, 13-14=204/425, 3-13=489/1492, 12-13=585/1712, 11-12=585/1718, 5-11=294/212		
WEBS	4-12=16/379, 4-11=956/368, 9-11=83/537, 6-11=403/1056, 6-9=448/190, 7-9=175/733, 3-14=537/291		

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 23-5-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=249, 8=248.

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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:

October 13,2025

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Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	
4894002	T06	Common	2	1		T38828919

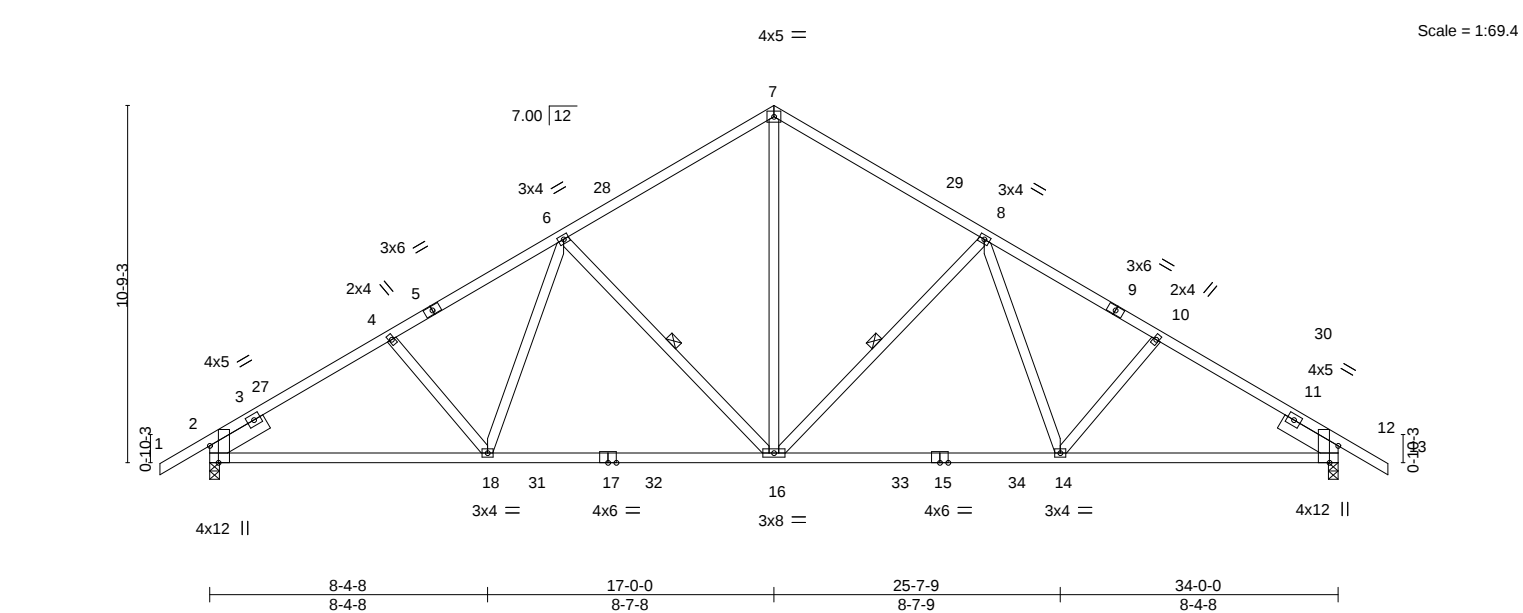
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:34 2025 Page 1

ID:O2LeeknYtKA1YUCwnh0sAryU8o7-ExVbnrmL7MxYAec4e2Et_h1ahZ6aB9eXfwFIapyU7J?

1-6-0 5-5-13 10-7-15 17-0-0 23-4-1 28-6-3 34-0-0 35-6-0

1-6-0 5-5-13 5-2-2 6-4-1 6-4-1 5-2-2 5-5-13 1-6-0



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.26 14-16 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.45 14-16 >901 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.12 12 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 199 lb		FT = 20%	

LUMBER-			BRACING-		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied.	
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.	
WEBS	2x4 SP No.3		WEBS	1 Row at midpt 8-16, 6-16	
SLIDER	Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8				

REACTIONS. (size) 2=0-3-8, 12=0-3-8
Max Horz 2=-267(LC 10)
Max Uplift 2=-352(LC 12), 12=-352(LC 13)
Max Grav 2=1651(LC 19), 12=1651(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2286/474, 4-6=-2151/472, 6-7=-1594/405, 7-8=-1594/405, 8-10=-2151/472, 10-12=-2286/474
BOT CHORD 2-18=-477/2068, 16-18=-353/1844, 14-16=-224/1701, 12-14=-297/1868
WEBS 7-16=-253/1209, 8-16=-678/302, 8-14=-73/421, 6-16=-678/302, 6-18=-73/421

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-10-13, Zone1 1-10-13 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 35-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=352, 12=352.

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

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

October 13,2025

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828920
4894002	T06G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:35 2025 Page 1
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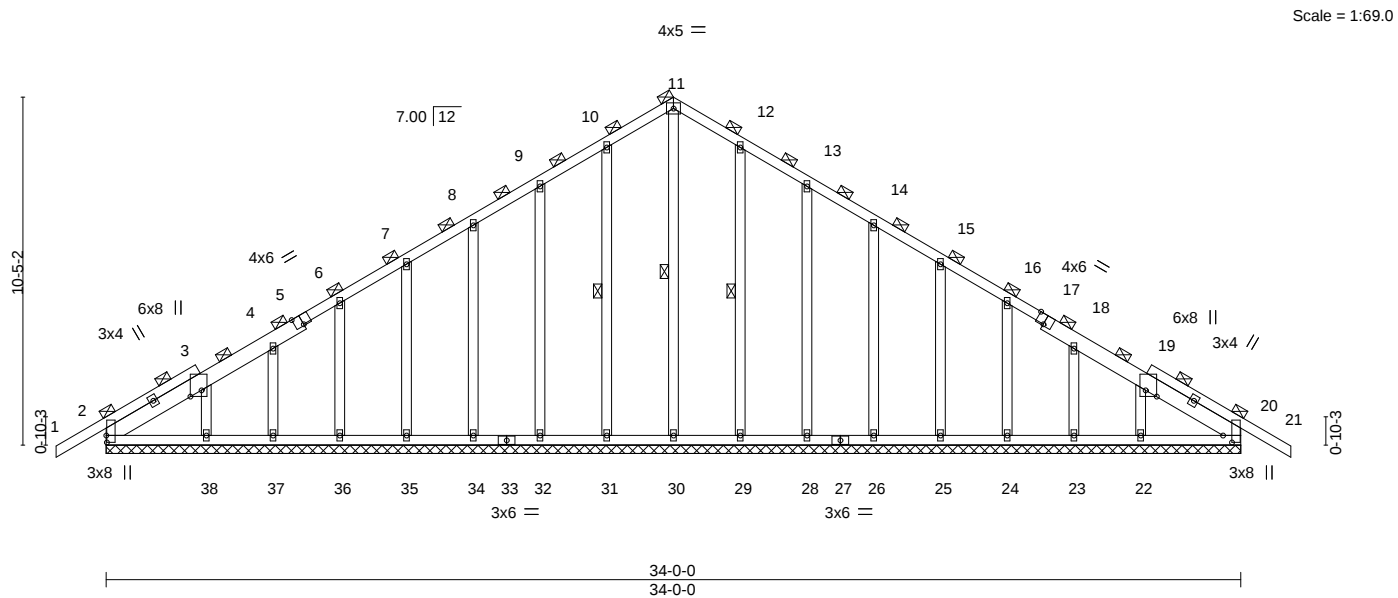


Plate Offsets (X,Y)-- [2:0-2-8,0-0-3], [3:0-2-4,0-4-0], [5:0-3-0,Edge], [17:0-3-0,Edge], [19:0-2-4,0-4-0], [20:0-2-8,0-3-3]						
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC 0.14	in (loc) l/defl L/d	GRIP
TCDL	10.0	Lumber DOL	1.25	BC 0.06	Vert(LL) -0.00 21 n/r 120	MT20 244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.15	Vert(CT) -0.01 21 n/r 120	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S	Horz(CT) 0.01 20 n/a n/a	
						Weight: 258 lb FT = 20%

LUMBER-		BRACING-
TOP CHORD	2x4 SP No.2 *Except* 2-5,17-20: 2x6 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3	WEBS 1 Row at midpt 11-30, 10-31, 12-29

REACTIONS. All bearings 34-0-0.
(lb) - Max Horz 2=258(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 31, 32, 34, 35, 36, 37, 29, 28, 26, 25, 24, 23, 20 except
38=122(LC 12), 22=110(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 30, 31, 32, 34, 35, 36, 37, 38, 29, 28, 26, 25, 24, 23, 22, 20

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 2, 31, 32, 34, 35, 36, 37, 29, 28, 26, 25, 24, 23, 20 except (jt=lb) 38=122, 22=110.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 13,2025

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828922
4894002	T08	Roof Special	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:36 2025 Page 1
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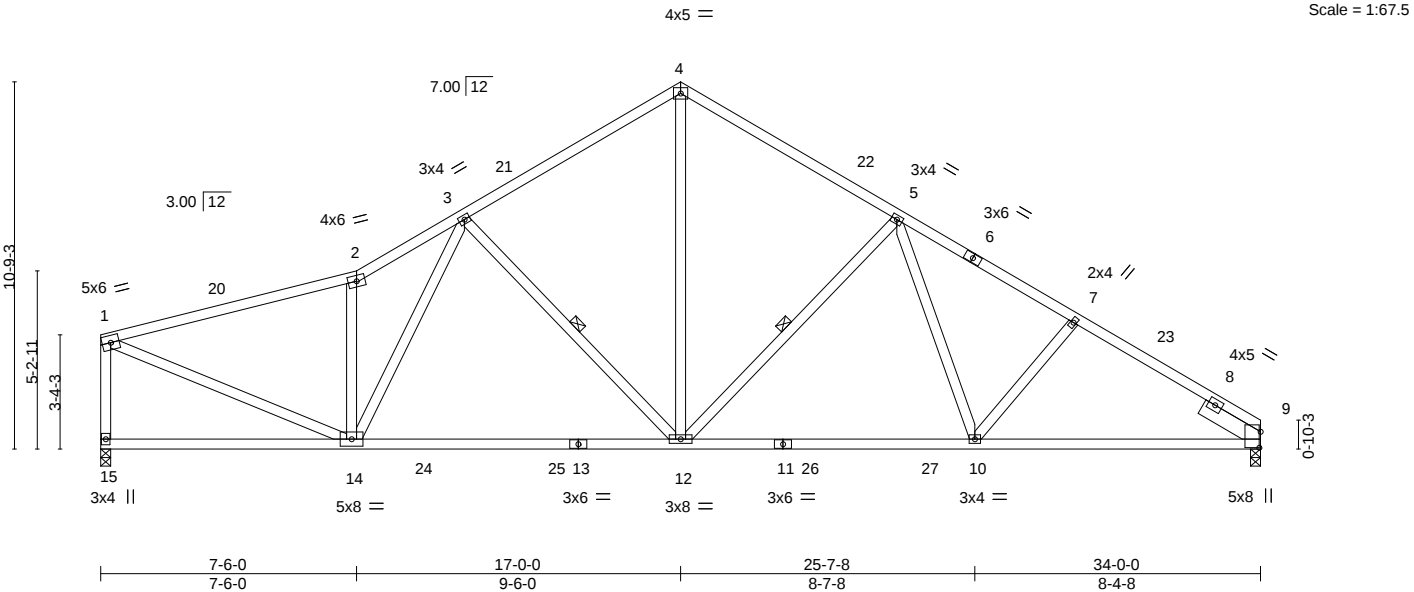


Plate Offsets (X,Y)-- [9:0-5-10,0-0-7]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.30 12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.52 12-14	>784	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 204 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-2: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 3-12, 5-12
SLIDER Right 2x6 SP No.2 1-11-8	

REACTIONS.	(size)
Max Horz	15=223(LC 11)
Max Uplift	15=-317(LC 12), 9=-310(LC 13)
Max Grav	15=1496(LC 2), 9=1561(LC 20)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1921/380, 2-3=-2161/504, 3-4=-1590/397, 4-5=-1561/396, 5-7=-2153/471, 7-9=-2291/474, 1-15=-1398/352
BOT CHORD	12-14=-346/1695, 10-12=-230/1652, 9-10=-327/1882
WEBS	2-14=-852/300, 3-14=-131/513, 3-12=-551/284, 4-12=-243/1199, 5-12=-676/305, 5-10=-80/426, 1-14=-327/1915

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 3-6-9, Zone1 3-6-9 to 17-0-0, Zone2 17-0-0 to 21-9-11, Zone1 21-9-11 to 34-0-0 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=317, 9=310.

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Date:

October 13,2025

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828924
4894002	T10	Common	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:37 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-fWBkPsoDQHK716LeKAoacJfC4mEgOYUzMuUyl8yU7ly

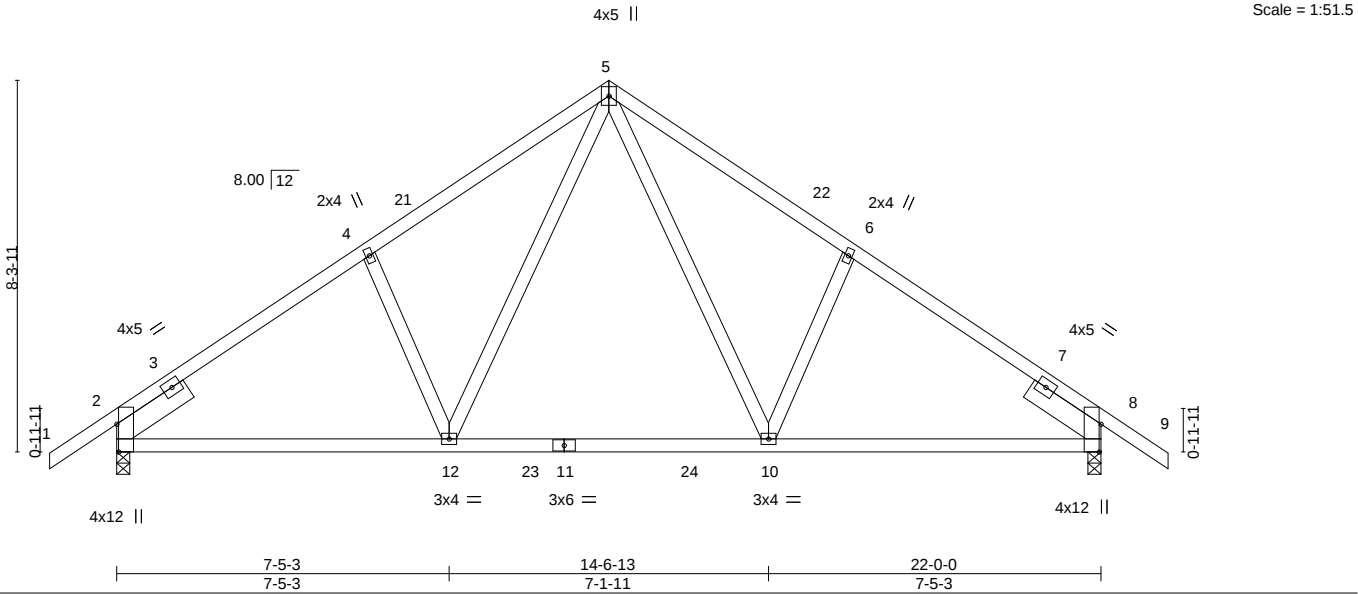


Plate Offsets (X,Y)--		[2:0-7-7,Edge], [8:0-7-7,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51
TCDL 10.0	Lumber DOL	1.25	BC 0.63
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.14 10-12 >999 240
			Vert(CT) -0.23 10-12 >999 180
			Horz(CT) 0.05 8 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 126 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=206(LC 11)
Max Uplift 2=-234(LC 12), 8=-234(LC 13)
Max Grav 2=1037(LC 2), 8=1037(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1186/493, 4-5=-1100/543, 5-6=-1100/543, 6-8=-1186/493
BOT CHORD 2-12=-302/936, 10-12=-149/673, 8-10=-318/924
WEBS 5-10=-271/490, 6-10=-263/230, 5-12=-271/490, 4-12=-263/229

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 23-6-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=234, 8=234.

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Job	Truss	Truss Type	Qty	Ply	TOLAR RES.	T38828925
4894002	T10G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:38 2025 Page 1
ID:O2LeeknYtKA1YUCwnh0sAryU8o7-7il6dCpsBaS_fGwrtuJp8XCKDAeS7?J7aYDWlwayU7lx

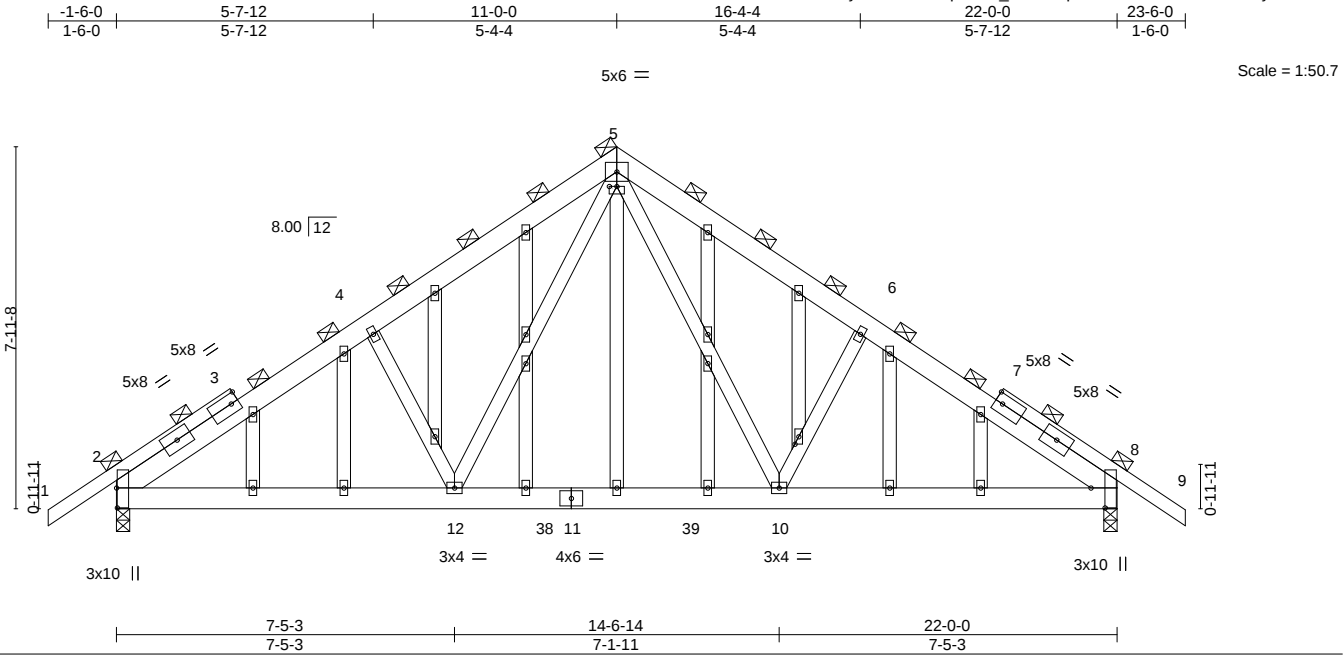


Plate Offsets (X,Y)--		[2:0-5-4,0-0-3], [5:0-2-0,0-0-0], [8:0-5-4,0-3-11], [24:0-0-1,0-0-0], [24:0-0-1,0-0-0], [25:0-1-15,0-1-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67
TCDL 10.0	Lumber DOL	1.25	BC 0.33
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.06 10-12 >999 240
			Vert(CT) -0.11 10-12 >999 180
			Horz(CT) 0.02 8 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 214 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,7-9: 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (4-10-10 max.).
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-195(LC 10)
Max Uplift 2=-237(LC 12), 8=-237(LC 13)
Max Grav 2=1034(LC 2), 8=1034(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1290/626, 4-5=-1211/680, 5-6=-1211/680, 6-8=-1290/626
BOT CHORD 2-12=-438/1060, 10-12=-198/705, 8-10=-442/1061
WEBS 4-12=-337/238, 5-12=-337/558, 5-10=-337/558, 6-10=-338/238

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=237, 8=237.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 13,2025

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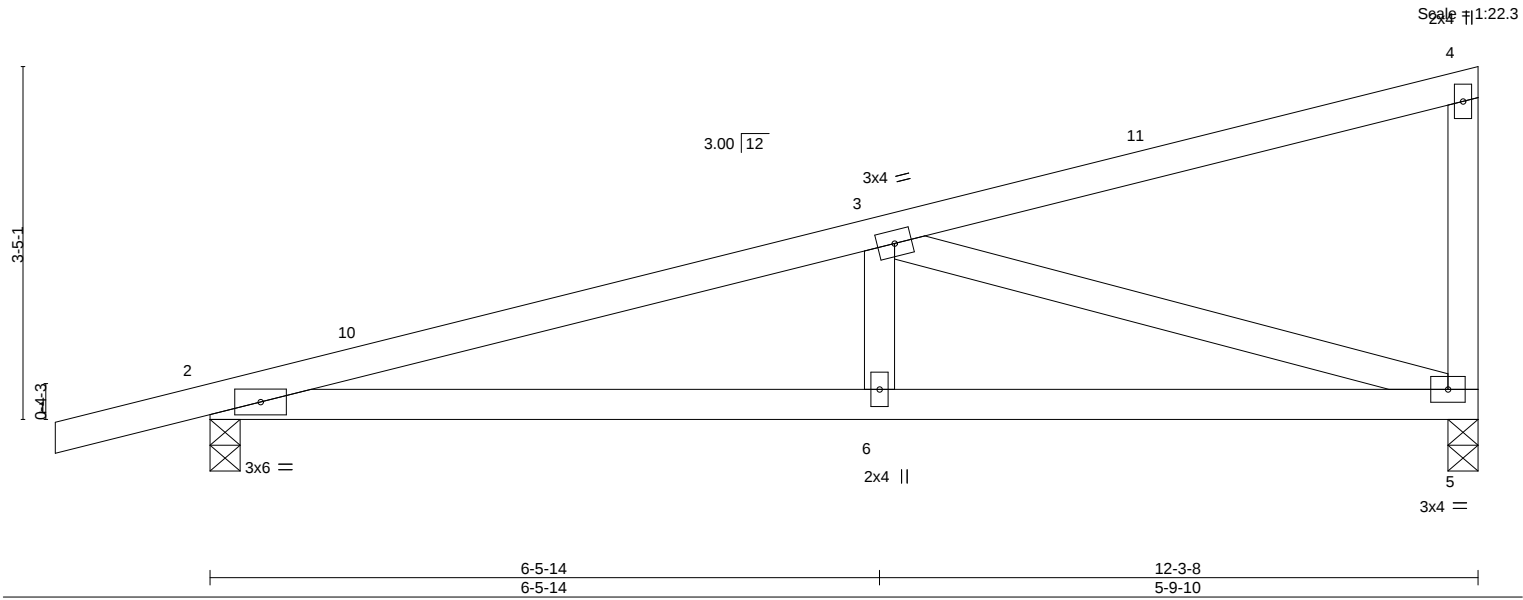
Job	Truss	Truss Type	Qty	Ply	TOLAR RES.
4894002	T11	Monopitch	15	1	T38828926

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:39 2025 Page 1

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12-3-8 5-9-10



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.39	Vert(LL) 0.09	6-9	>999	240		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.46	Vert(CT) -0.12	6-9	>999	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.02	5	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 54 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-8-4 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=137(LC 8)
Max Uplift 2=-312(LC 8), 5=-270(LC 8)
Max Grav 2=581(LC 1), 5=480(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1078/642
BOT CHORD 2-6=-730/1023, 5-6=-730/1023
WEBS 3-6=-126/269, 3-5=-1040/735

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 12-1-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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=312, 5=270.

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Date:

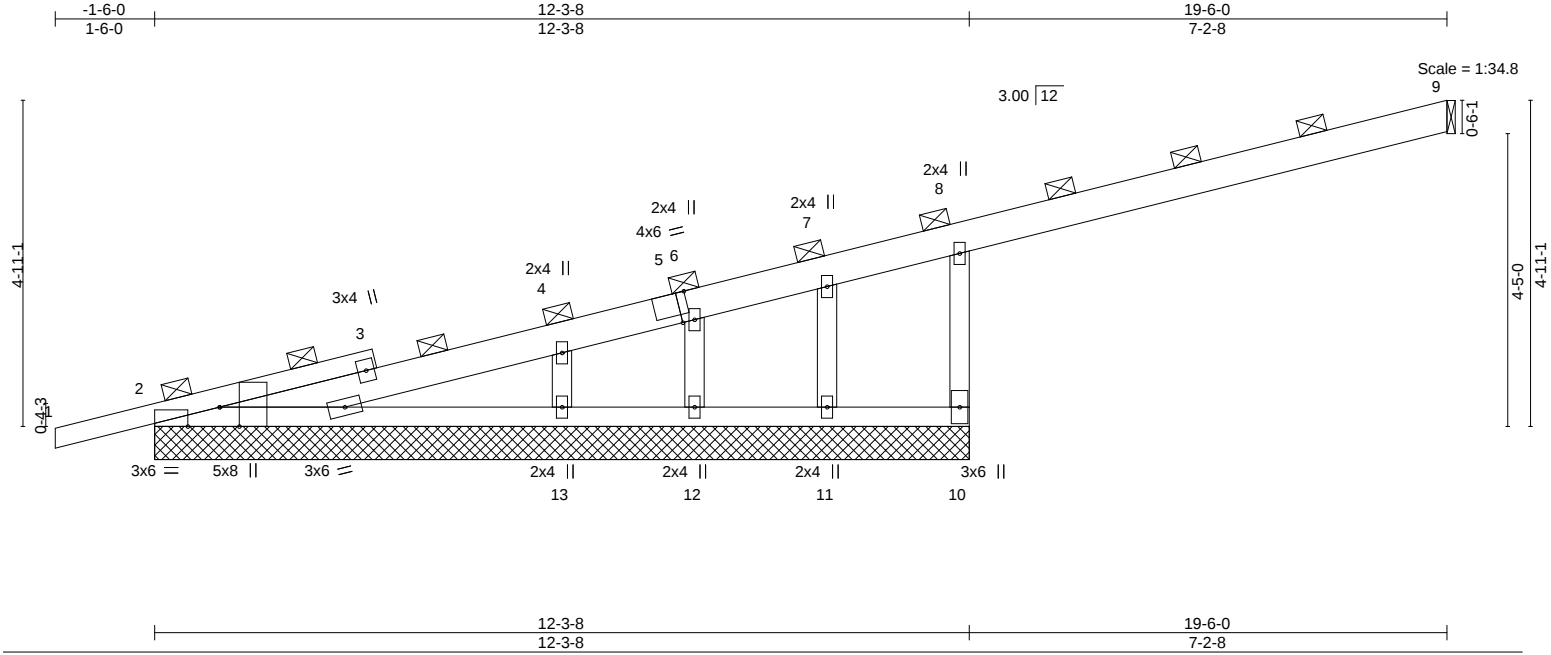
October 13,2025

Job	Truss	Truss Type	Qty	Ply	TOLAR RES.
4894002	T11G	Monopitch Supported Gable	2	1	
					Job Reference (optional)

T38828927

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Sun Oct 12 14:53:39 2025 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.03 2-13 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.07 2-13 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00 9 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							
								Weight: 80 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* 1-3: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 12-3-8 except (jt=length) 9=Mechanical.
(lb) - Max Horz 2=191(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 9, 12 except 10=-258(LC 8), 2=-108(LC 8), 13=-129(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 12, 11 except 10=493(LC 1), 2=306(LC 1), 13=476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-302/98, 8-10=-483/521
WEBS 4-13=-350/327

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 9, 12 except (jt=lb) 10=258, 2=108, 13=129.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 13,2025

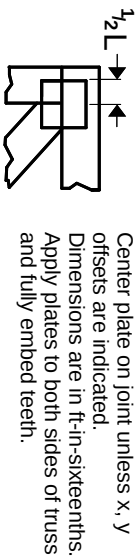
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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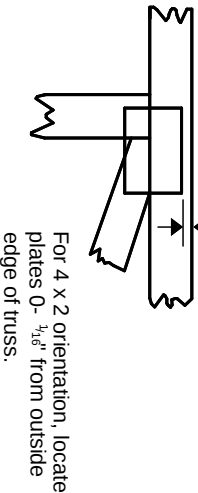
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Symbols

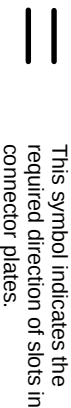
PLATE LOCATION AND ORIENTATION



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



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



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

PLATE SIZE

4 X 4

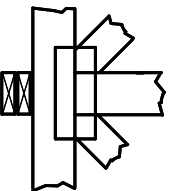
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

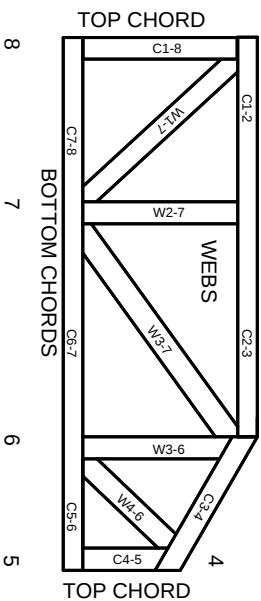
Industry Standards:

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

Numbering System



1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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