

RE: 4847431 - LOT 1 CROSSWINDS

MiTek, Inc.

16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200

**Site Information:**

Customer Info: GIEBEIG HOMES Project Name: Spec House Model: 1677  
Lot/Block: 1 Subdivision: Crosswinds  
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 30 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	T38483999	CJ01	9/10/25	15	T38484013	T08	9/10/25
2	T38484000	CJ03	9/10/25	16	T38484014	T09	9/10/25
3	T38484001	CJ05	9/10/25	17	T38484015	T10	9/10/25
4	T38484002	EJ01	9/10/25	18	T38484016	T11	9/10/25
5	T38484003	HJ10	9/10/25	19	T38484017	T12	9/10/25
6	T38484004	T01	9/10/25	20	T38484018	T12G	9/10/25
7	T38484005	T01G	9/10/25	21	T38484019	T13	9/10/25
8	T38484006	T02	9/10/25	22	T38484020	T13G	9/10/25
9	T38484007	T03	9/10/25	23	T38484021	T14G	9/10/25
10	T38484008	T04	9/10/25	24	T38484022	T15	9/10/25
11	T38484009	T05	9/10/25	25	T38484023	T15G	9/10/25
12	T38484010	T06	9/10/25	26	T38484024	T16	9/10/25
13	T38484011	T07	9/10/25	27	T38484025	T17	9/10/25
14	T38484012	T07G	9/10/25	28	T38484026	T17G	9/10/25

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

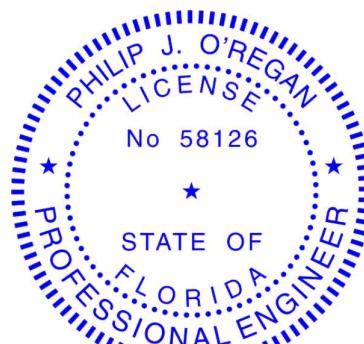
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

September 10,2025

ORegan, Philip

1 of 2



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RE: 4847431 - LOT 1 CROSSWINDS

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

**Site Information:**

Customer Info: GIEBEIG HOMES Project Name: Spec House Model: 1677

Lot/Block: 1

Subdivision: Crosswinds

Address: TBD, TBD

City: Lake City

State: FL

No.	Seal#	Truss Name	Date
29	T38484027	T18	9/10/25
30	T38484028	T18G	9/10/25

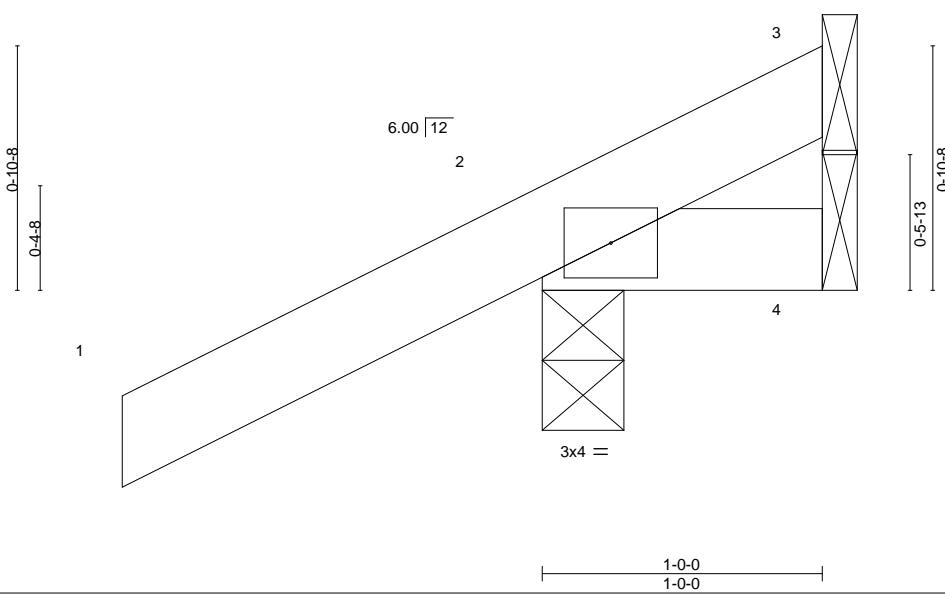
Job 4847431	Truss CJ01	Truss Type Jack-Open	Qty 2	Ply 1	LOT 1 CROSSWINDS Job Reference (optional)	T38483999
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:07 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-mlzVHnPRwxytRW\_iOJKv25B1j5btpLHbXnOLLTyfMF\_

-1-6-0  
1-6-0

1-0-0  
1-0-0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL) 0.00	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) 0.00		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		
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=0-3-8, 4=Mechanical  
Max Horz 2=44(LC 12)  
Max Uplift 3=7(LC 1), 2=79(LC 12), 4=22(LC 1)  
Max Grav 3=9(LC 8), 2=198(LC 1), 4=17(LC 16)

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

#### NOTES-

- 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
- 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, 2, 4.

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:

September 10,2025

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

Job 4847431	Truss CJ03	Truss Type Jack-Open	Qty 2	Ply 1	LOT 1 CROSSWINDS	T38484000
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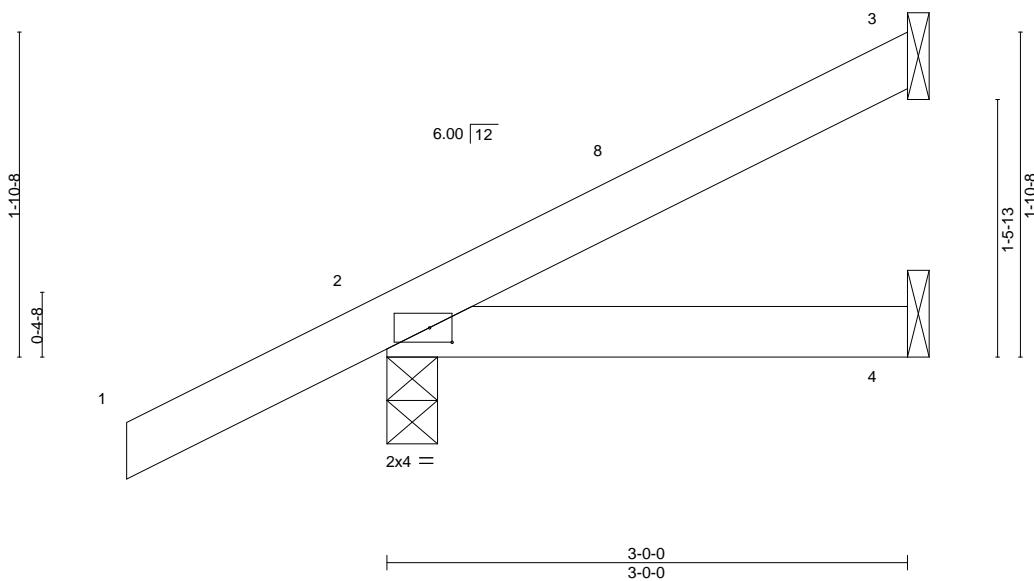
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:08 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-EVxtU7Q3hF4k3gYvx0r8bJkCSVwbYoWkmR7utwyfMEz

-1-6-0 3-0-0  
1-6-0 3-0-0

Scale = 1:13.3



3-0-0  
3-0-0

Plate Offsets (X,Y)-- [2:0-1-9,0-1-0]

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 0.16	Vert(LL)	-0.00	4-7	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.07	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=0-3-8, 4=Mechanical  
Max Horz 2=82(LC 12)  
Max Uplift 3=41(LC 12), 2=69(LC 12)  
Max Grav 3=66(LC 1), 2=230(LC 1), 4=50(LC 3)

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

#### NOTES-

- 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 2-11-4 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.
- 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, 2.

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:

September 10,2025

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

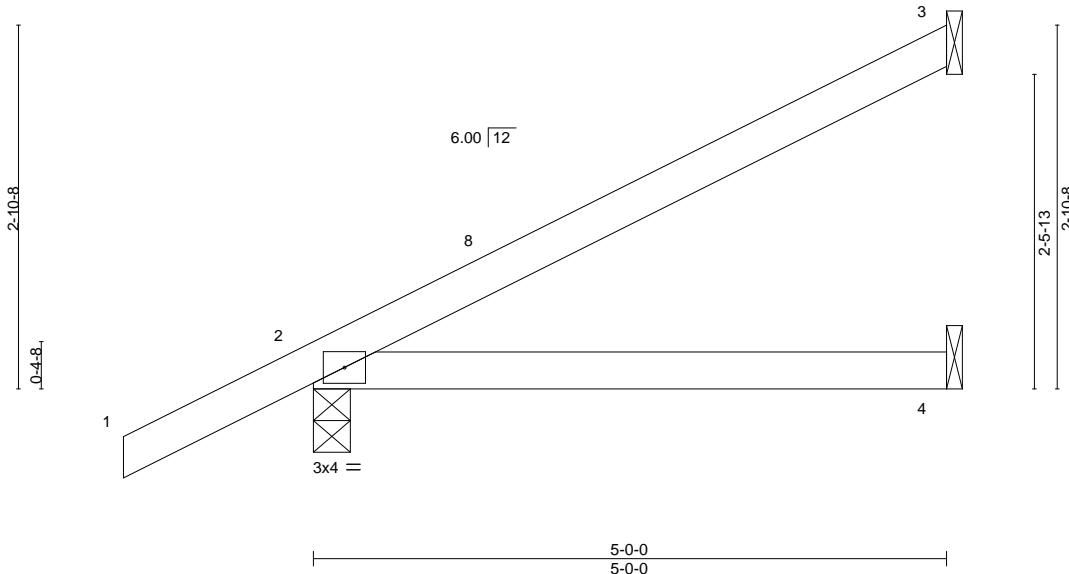
Job 4847431	Truss CJ05	Truss Type Jack-Open	Qty 2	Ply 1	LOT 1 CROSSWINDS	T38484001
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:08 2025 Page 1  
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-1-6-0 5-0-0  
1-6-0 5-0-0

Scale = 1:18.2



5-0-0  
5-0-0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.31	Vert(LL) 0.03 in (loc) 4-7 l/defl >999 L/d 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.06 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: 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=0-3-8, 4=Mechanical

Max Horz 2=120(LC 12)  
Max Uplift 3=77(LC 12), 2=79(LC 12), 4=1(LC 12)  
Max Grav 3=124(LC 1), 2=301(LC 1), 4=90(LC 3)

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

#### NOTES-

- 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 4-11-4 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.
- 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, 2, 4.

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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:

September 10,2025

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

Job 4847431	Truss EJ01	Truss Type Jack-Partial	Qty 8	Ply 1	LOT 1 CROSSWINDS	T38484002
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:09 2025 Page 1  
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-1-6-0 1-6-0 7-0-0 7-0-0

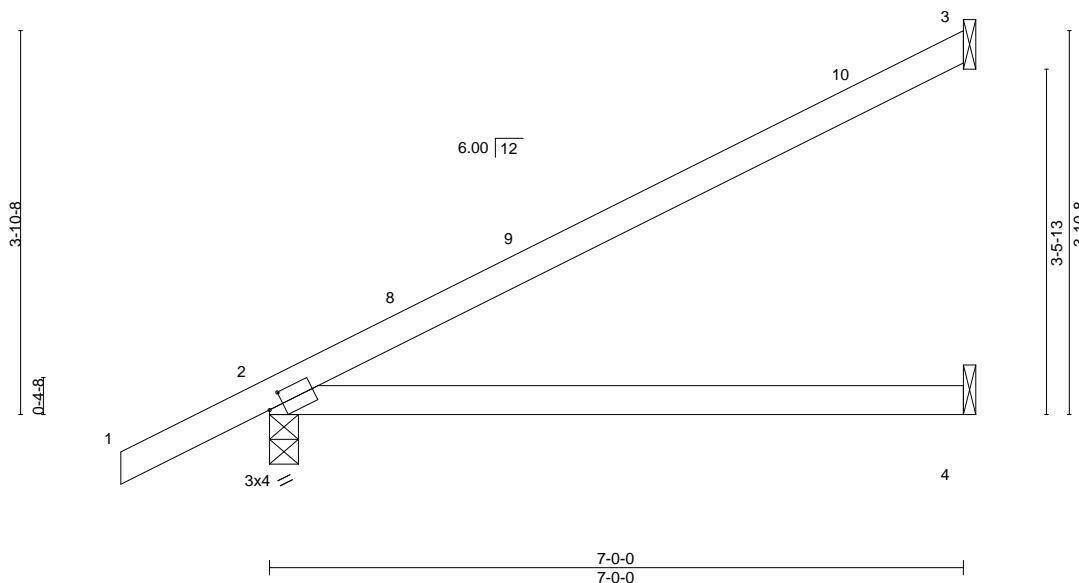


Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

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 0.69	Vert(LL)	0.11	4-7	>741	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.23	4-7	>364	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-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=0-3-8, 4=Mechanical  
Max Horz 2=153(LC 12)  
Max Uplift 3=-99(LC 12), 2=-93(LC 12), 4=-1(LC 12)  
Max Grav 3=181(LC 1), 2=377(LC 1), 4=128(LC 3)

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

#### NOTES-

- 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 6-11-4 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.
- 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, 2, 4.

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:

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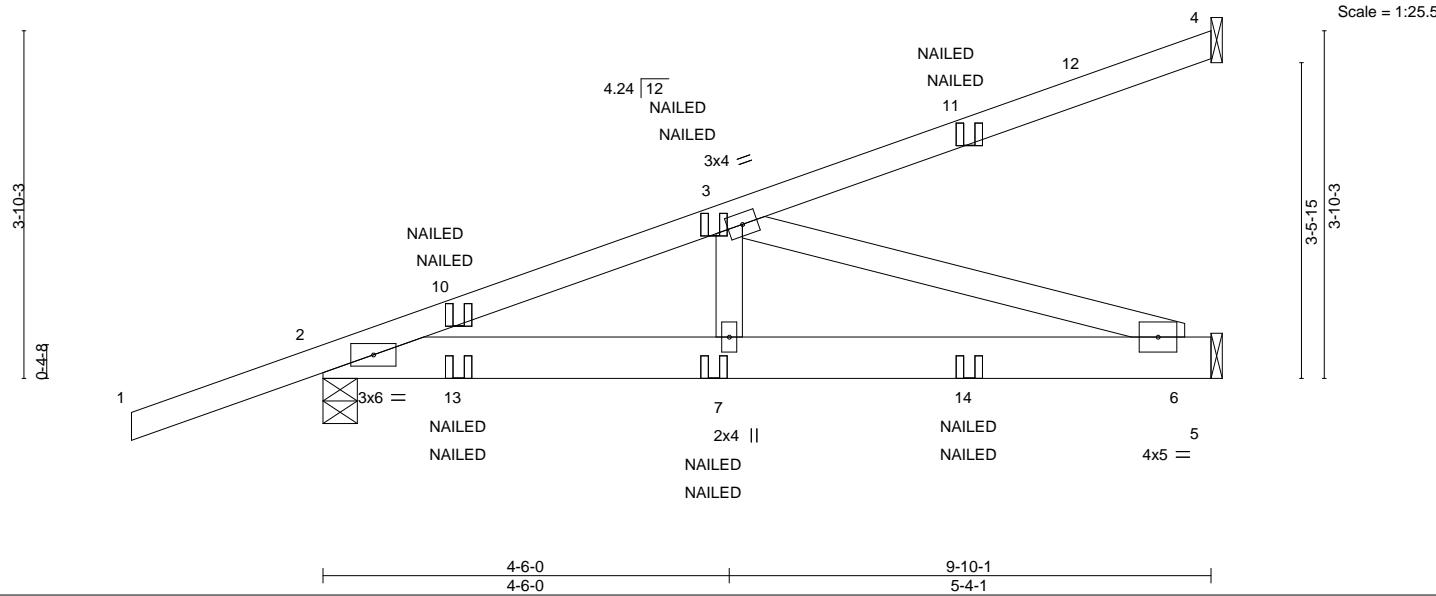
Job 4847431	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484003
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:09 2025 Page 1

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-2-1-7 4-6-0 9-10-1  
2-1-7 4-6-0 5-4-1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) -0.02 in (loc) 6-7 >999 L/d 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.33	Vert(CT) -0.05 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical

Max Horz 2=167(LC 4)  
Max Uplift 4=-90(LC 4), 2=-176(LC 4), 5=-86(LC 8)  
Max Grav 4=163(LC 1), 2=472(LC 1), 5=302(LC 1)

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

TOP CHORD 2-3=-758/238  
BOT CHORD 2-7=-282/722, 6-7=-282/722  
WEBS 3-6=-757/295

#### NOTES-

1) 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; 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, 5 except (jt=lb) 2=176.

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 (lb)

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

Concentrated Loads (lb)

Vert: 7=-6(F=-3, B=-3) 10=58(F=29, B=29) 11=-79(F=-39, B=-39) 13=62(F=31, B=31) 14=-62(F=-31, B=-31)

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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:

September 10, 2025

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Job 4847431	Truss T01	Truss Type Common	Qty 7	Ply 1	LOT 1 CROSSWINDS	T38484004
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:10 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-AtedvpRKDsLSiH3RtcgkpQDIUX0cR1Dlc?xoyfMEx

-1-6-0 7-5-5 11-8-0 15-10-11 23-4-0 24-10-0  
1-6-0 7-5-5 4-2-11 4-2-11 7-5-5 1-6-0

Scale = 1:42.5

4x5 =

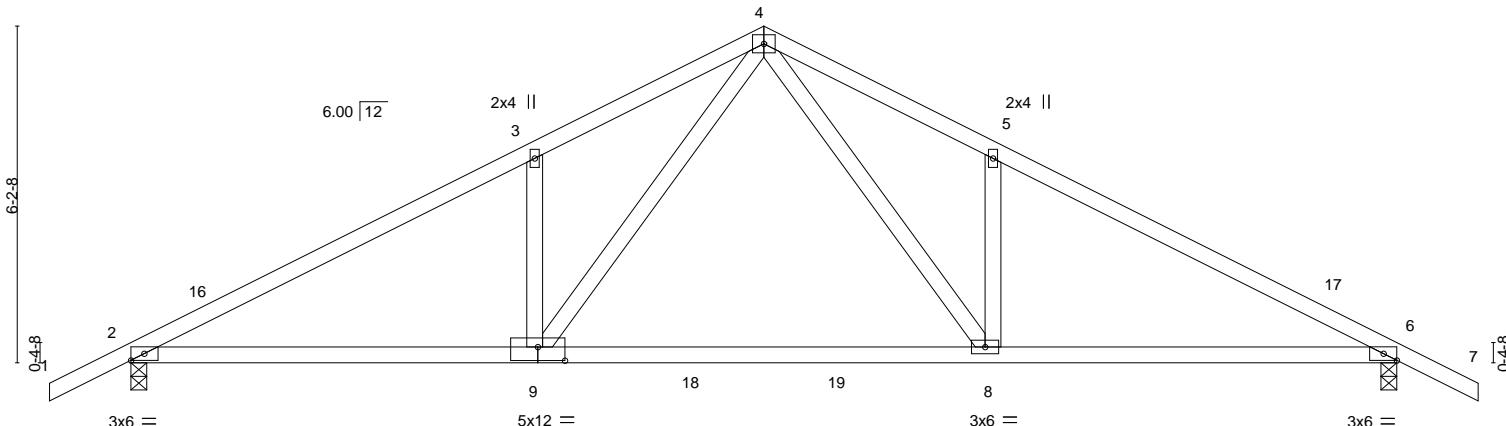


Plate Offsets (X,Y)-- [6:0-2-15,Edge], [9:0-6-0,0-3-0]

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 0.66	Vert(LL)	-0.27	8-9	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.54	8-9	>515	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.04	6	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 110 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=110(LC 13)  
Max Uplift 2=335(LC 12), 6=336(LC 13)  
Max Grav 2=1307(LC 2), 6=1308(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=2244/524, 3-4=2221/647, 4-5=2231/652, 5-6=2249/525  
BOT CHORD 2-9=464/1963, 8-9=244/1317, 6-8=386/1941  
WEBS 4-8=381/1117, 5-8=371/252, 4-9=376/1112, 3-9=369/250

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 15-10-11, Zone1 15-10-11 to 24-10-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=335, 6=336.
- 7) 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, 9-10=-20, 8-9=-80(F=-60), 8-13=-20

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

September 10, 2025

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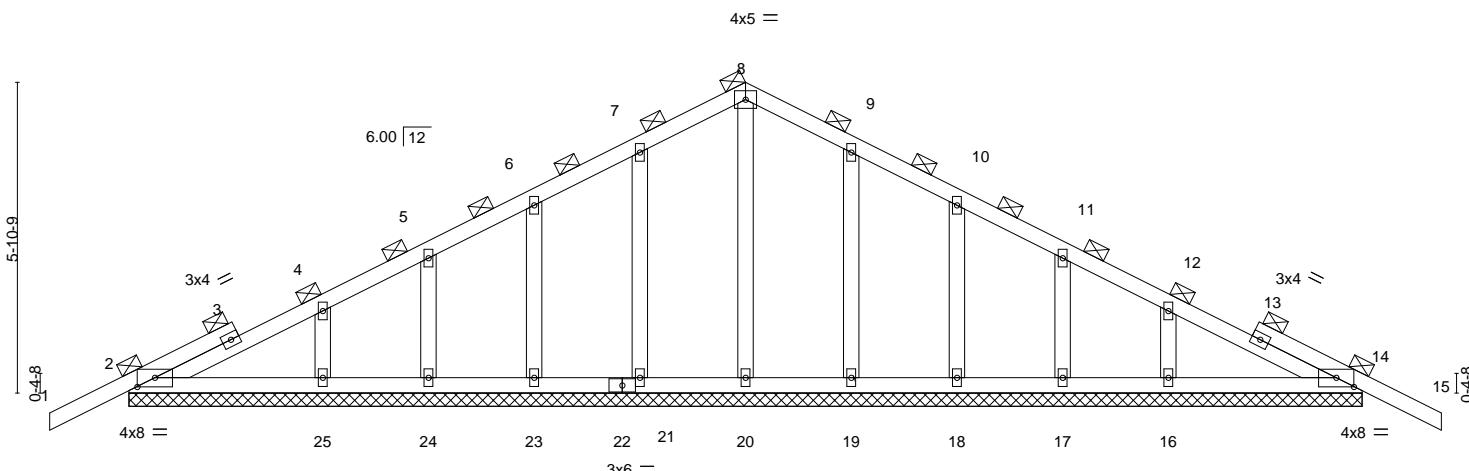
Job 4847431	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484005
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:11 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-e3C069Sy\_ATJw7HTd9PrDxMjziy2l83BSPMZUFyfMEw

-1-6-0 11-8-0 23-4-0 24-10-0  
1-6-0 11-8-0 11-8-0 1-6-0

Scale = 1:43.6



23-4-0  
23-4-0

Plate Offsets (X,Y)-- [2:0-4-0,0-0-2-1], [14:0-4-0,0-0-2-1]

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 0.15	Vert(LL)	-0.00	15	n/r	120	
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00	15	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	14	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 125 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

All bearings 23-4-0.  
(lb) - Max Horz 2-104(LC 17)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16  
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 19, 18, 17 except 25=251(LC 25),  
16=251(LC 26)

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 23, 24, 25, 19, 18, 17, 16.
- 11) 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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sealed by O'Regan, Philip, PE  
on the date indicated here.  
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Philip J. O'Regan PE No.58126  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

September 10, 2025

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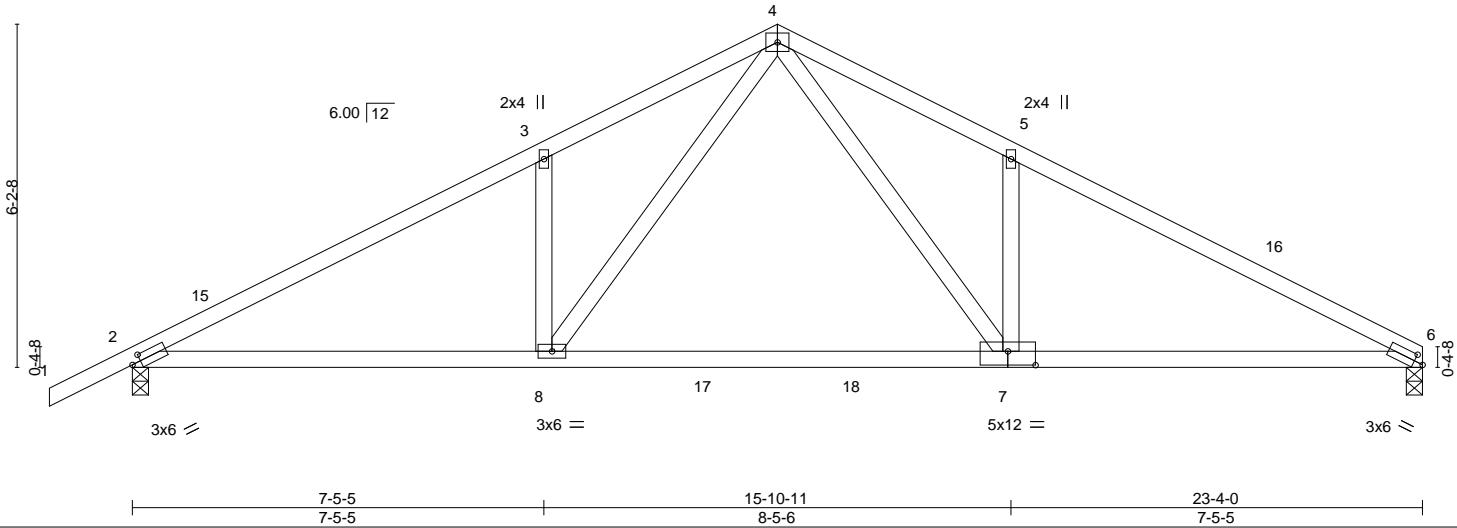
Job 4847431	Truss T02	Truss Type Common	Qty 4	Ply 1	LOT 1 CROSSWINDS	T38484006
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:11 2025 Page 1 ID:UBRuYsnCX6QV?mdyde3qqLyfNog-e3C069Sy\_ATJw7HTd9PrDxMariql3dBSMPZUFyfMEw

-1-6-0 7-5-5 11-8-0 15-10-11 23-4-0  
1-6-0 7-5-5 4-2-11 4-2-11 7-5-5

Scale = 1:41.7

4x5 =



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

September 10, 2025

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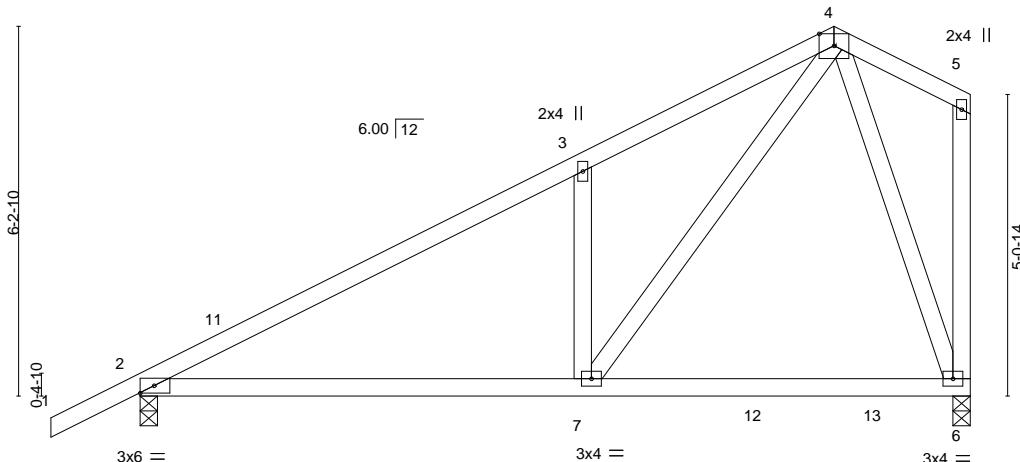
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Job 4847431	Truss T03	Truss Type Common	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484007
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ID:UBRuYsnCX6QV?mdyde3qqLyfNog-6GmOKUTaTbAXHsgAsw4l9vp69SUX6Kh3560hyfMEv

-1-6-0 7-5-5 11-8-0 13-11-8  
1-6-0 7-5-5 4-2-11 2-3-8

5x6 = Scale = 1:38.7



7-5-5 13-11-8  
7-5-5 6-6-3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.53	Vert(LL) -0.09 in (loc) 7-10 >999 L/d 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.59	Vert(CT) -0.18 7-10 >900 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 78 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=227(LC 12)  
Max Uplift 2=-164(LC 12), 6=-171(LC 12)  
Max Grav 2=672(LC 2), 6=608(LC 2)

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

TOP CHORD 2-3=-790/157, 3-4=-791/286  
BOT CHORD 2-7=-234/646  
WEBS 3-7=-412/265, 4-7=-296/818, 4-6=-472/206

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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, Zone3 11-8-0 to 13-9-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=164, 6=171.

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Date:

September 10, 2025

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Job 4847431	Truss T04	Truss Type Half Hip Girder	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484008
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:12 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNog-6GmOKUTaTbAXHsgAsw4l9vn8697UUTKh3560hyfMEv

-1-6-0 3-8-15 7-0-0 11-2-13 15-5-11 20-0-0  
1-6-0 3-8-15 3-3-1 4-2-13 4-2-13 4-6-5

Scale = 1:37.5

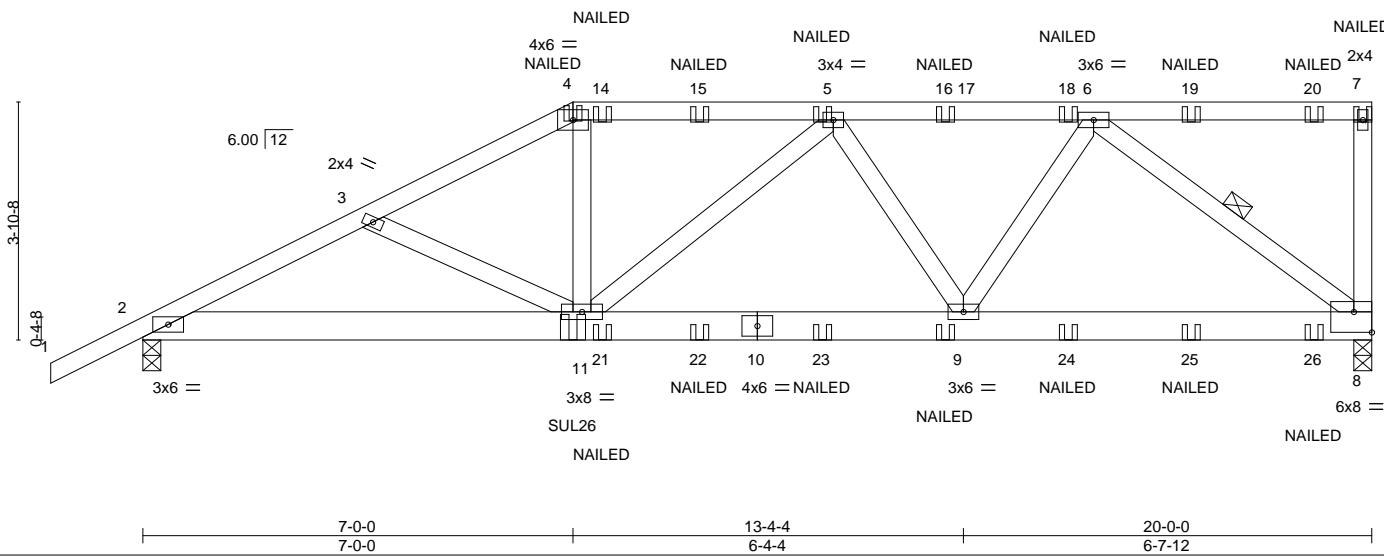


Plate Offsets (X,Y)-- [8:Edge,0-4-0]		7-0-0	13-4-4	20-0-0					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.09	9-11	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.16	9-11	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.52	Horz(CT)	0.05	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 122 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=0-3-8  
Max Horz 2=161(LC 8)  
Max Uplift 8=-727(LC 5), 2=-531(LC 8)  
Max Grav 8=1949(LC 1), 2=1557(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2906/1013, 3-4=-2710/948, 4-5=-2425/884, 5-6=-2266/778, 7-8=-403/219  
BOT CHORD 2-11=-993/2573, 9-11=-930/2536, 8-9=-652/1768  
WEBS 4-11=-170/745, 5-9=-521/295, 6-9=-273/963, 6-8=-2212/817

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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; 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) 8=727, 2=531.
- 8) 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.
- 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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16023 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

September 10, 2025

Continued on page 2

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Job 4847431	Truss T04	Truss Type Half Hip Girder	Qty 1	Ply 1	LOT 1 CROSSWINDS Job Reference (optional)	T38484008
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:12 2025 Page 2  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-6GmOKUTaTbAXHsgAsw4l9vn8697UUTKh3560hyfMEv

**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 4=-79(F) 7=-153(F) 11=-273(F) 5=-121(F) 9=-67(F) 14=-121(F) 15=-121(F) 16=-121(F) 18=-121(F) 19=-121(F) 20=-127(F) 21=-67(F) 22=-67(F) 23=-67(F)  
24=-67(F) 25=-67(F) 26=-69(F)

 **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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute ([www.tpinst.org](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

Job 4847431	Truss T05	Truss Type Half Hip	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484009
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:13 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-aSKmXqUCWnj19RRskaRJIMR?NWUDDsDUvjr7yfMEu

-1-6-0 4-9-8 9-0-0 14-6-0 20-0-0  
1-6-0 4-9-8 4-2-8 5-6-0 5-6-0

Scale = 1:36.0

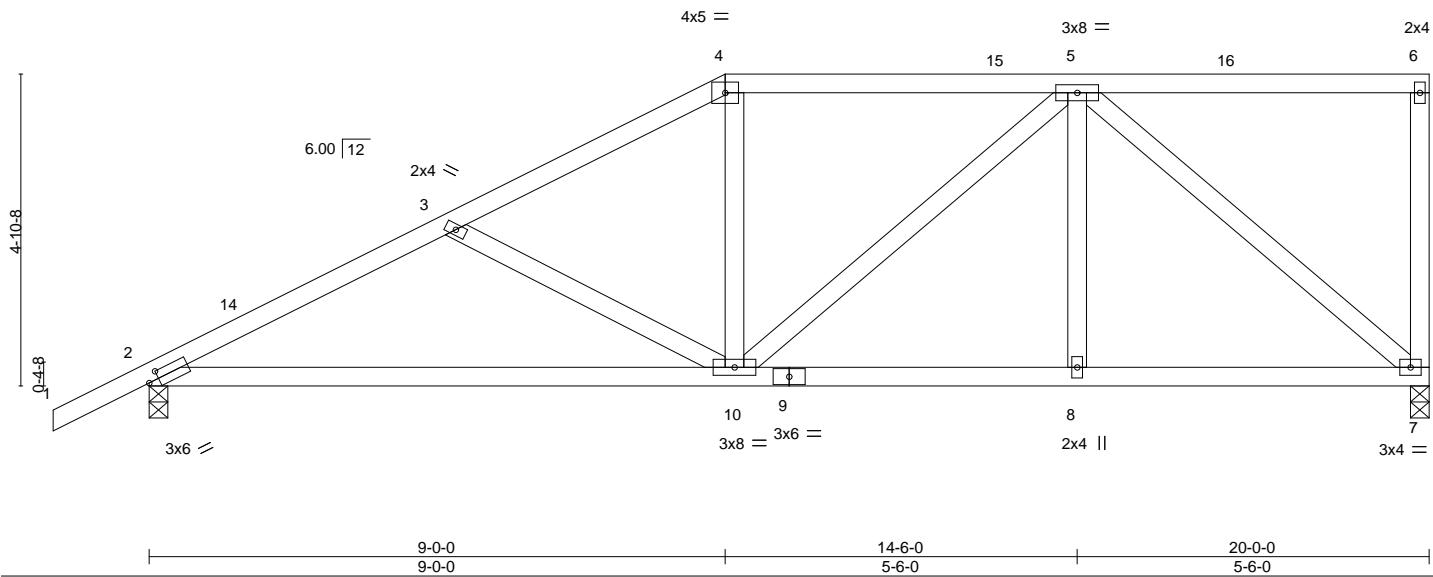


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]

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 0.41	Vert(LL)	-0.14	10-13	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.30	10-13	>800	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 110 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 4-10-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-9-10 oc bracing.

#### REACTIONS.

(size) 7=0-3-8, 2=0-3-8  
Max Horz 2=199(LC 12)  
Max Uplift 7=-222(LC 9), 2=-247(LC 12)  
Max Grav 7=791(LC 1), 2=888(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1338/369, 3-4=-1043/275, 4-5=-880/278  
BOT CHORD 2-10=-448/1171, 8-10=-201/722, 7-8=-201/722  
WEBS 3-10=-336/191, 4-10=0/267, 5-7=-931/264

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 19-10-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=222, 2=247.

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:

September 10, 2025

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

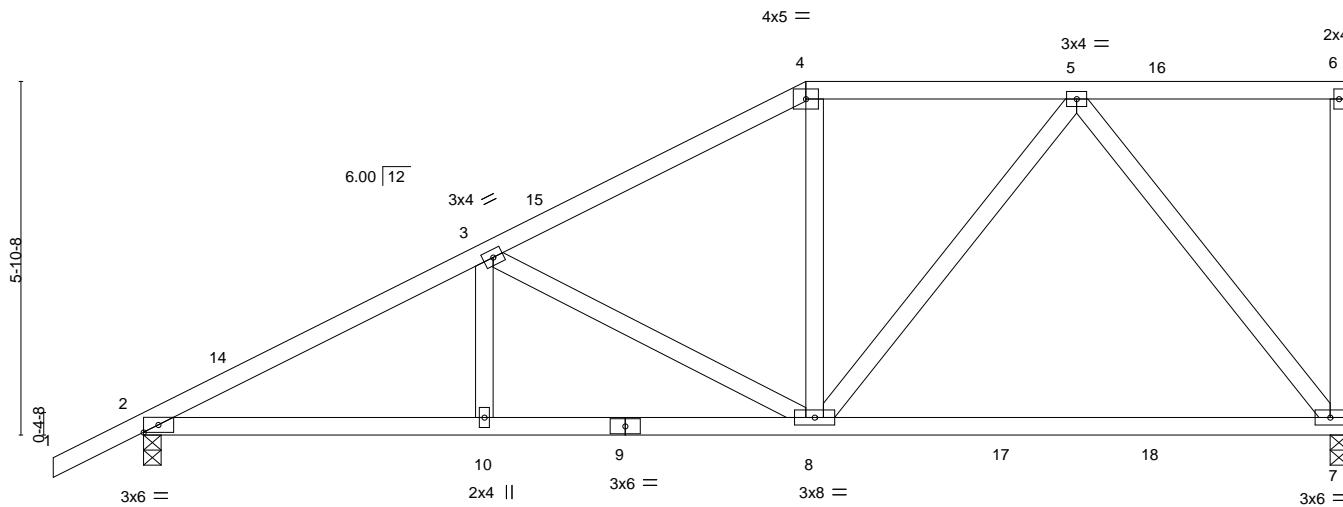
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Job 4847431	Truss T06	Truss Type Half Hip	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484010
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:13 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-aSKmXqUCWnj19RRskaRJMzrdWS7DutUvjfY7yfMEu

-1-6-0 5-7-15 11-0-0 4x5 = 3x4 = 2x4 || 1-6-0 5-7-15 5-4-1 15-5-15 20-0-0 4-6-1 20-0-0 4-6-1

Scale = 1:38.3



5-7-15 11-0-0 20-0-0  
5-7-15 5-4-1 9-0-0

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL)	-0.25	7-8	>953	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.81	Vert(CT)	-0.42	7-8	>562	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT)	0.03	7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						Weight: 113 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 4-8-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-9-2 oc bracing.

#### REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=238(LC 12)  
Max Uplift 7=212(LC 9), 2=241(LC 12)  
Max Grav 7=870(LC 2), 2=930(LC 2)

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

TOP CHORD 2-3=1429/334, 3-4=960/225, 4-5=802/238  
BOT CHORD 2-10=-448/1246, 8-10=-448/1246, 7-8=-160/509  
WEBS 3-8=-510/237, 5-8=-127/480, 5-7=-789/263

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 15-5-15, Zone1 15-5-15 to 19-10-4 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=212, 2=241.

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:

September 10, 2025

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Job 4847431	Truss T07	Truss Type Common	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484011
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:14 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-2eu8IAUqH5runb02lHyYra\_5lwnyRBd8NaD4ZyfMEt

-1-6-0 7-11-0 15-0-0 20-0-0  
1-6-0 7-11-0 7-1-0 5-0-0

4x5 =

Scale = 1:46.2

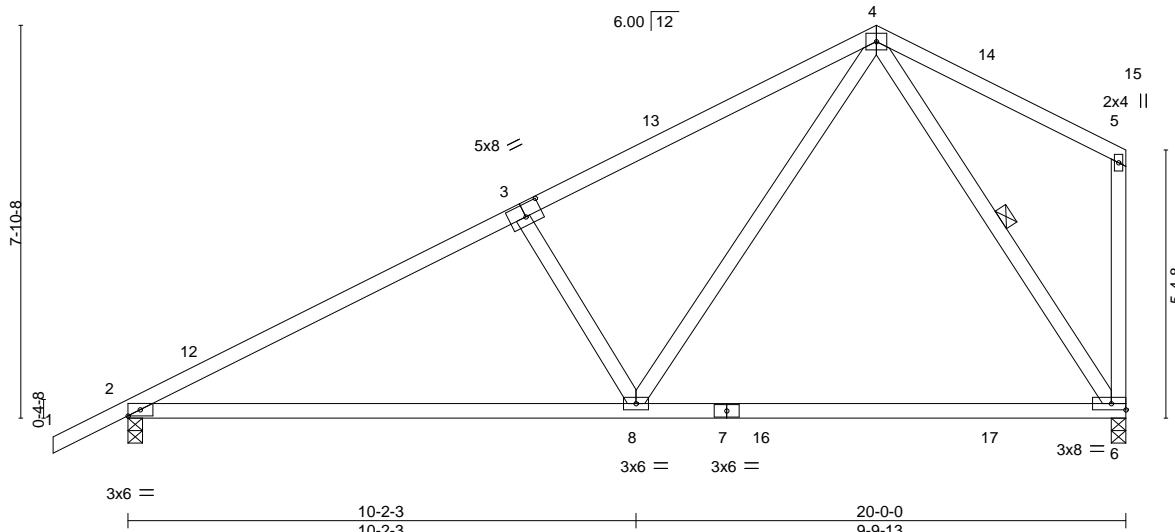


Plate Offsets (X,Y)-- [3:0-4-0,0-0-3-0]

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 0.72	Vert(LL)	-0.39	6-8	>610	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.58	6-8	>414	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 105 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-7: 2x4 SP No.1  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.  
WEBS 1 Row at midpt 4-6

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=261(LC 12)  
Max Uplift 2=-231(LC 12), 6=-206(LC 12)  
Max Grav 2=939(LC 2), 6=893(LC 2)

#### FORCES.

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

TOP CHORD 2-3=1290/278, 3-4=1121/290

BOT CHORD 2-8=398/1111, 6-8=125/413

WEBS 3-8=462/294, 4-8=239/947, 4-6=-704/236

#### NOTES-

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

2) 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 19-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=231, 6=206.

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:

September 10, 2025

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Job 4847431	Truss T08	Truss Type Common	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484013
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:15 2025 Page 1

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-1-6-0 7-11-0 15-0-0 19-8-14 22-8-0  
1-6-0 7-11-0 7-1-0 4-8-14 2-11-2

Scale = 1:46.6

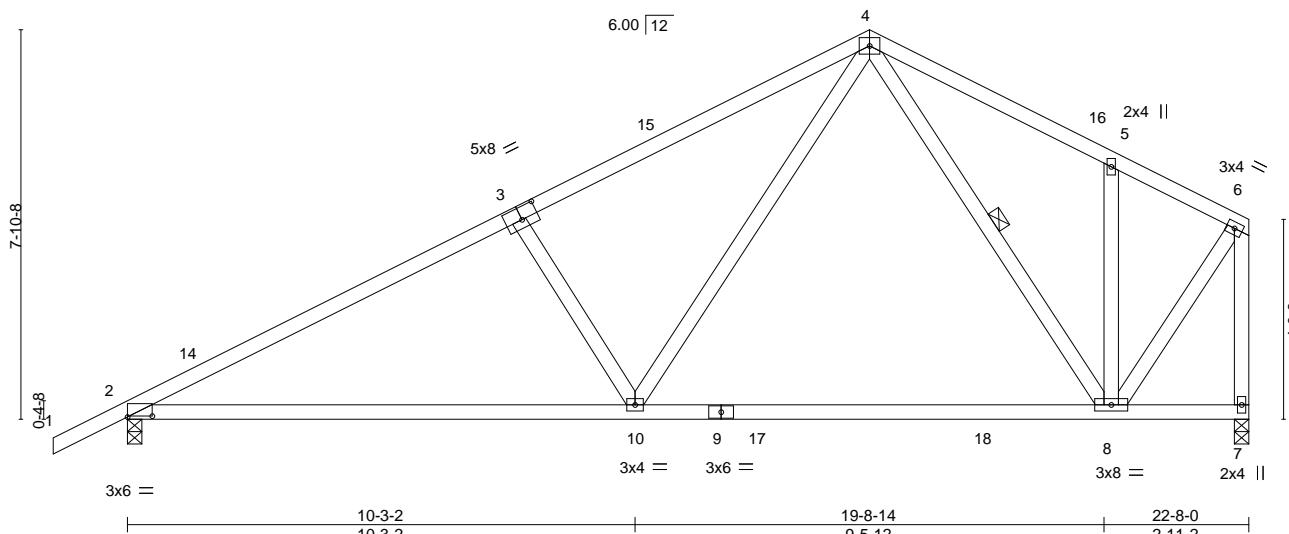


Plate Offsets (X,Y)-- [2:0-6,0,0-0-3], [3:0-4-0,0-0-3-0]

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 0.72	Vert(LL)	-0.28	8-10	>980	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.43	10-13	>630	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.03	7	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 126 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-9: 2x4 SP No.1  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 4-8

#### REACTIONS.

(size) 2=0-3-8, 7=0-3-8  
Max Horz 2=232(LC 12)  
Max Uplift 2=-262(LC 12), 7=-195(LC 12)  
Max Grav 2=1057(LC 2), 7=1000(LC 2)

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

TOP CHORD 2-3=-1540/349, 3-4=-1365/357, 4-5=-638/217, 5-6=-594/134, 6-7=-1055/221

BOT CHORD 2-10=-432/1336, 8-10=-157/655

WEBS 3-10=-463/293, 4-10=-240/911, 4-8=-307/128, 5-8=-280/182, 6-8=-157/922

#### NOTES-

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

2) 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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 22-6-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)  
2=262, 7=195.

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:

September 10, 2025

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**MiTek®**  
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Job 4847431	Truss T09	Truss Type Roof Special	Qty 3	Ply 1	LOT 1 CROSSWINDS	T38484014
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:15 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-XrSWyWVS2OzPlbFs\_TnNnXGQJ64hs1mN1Kmd0yfMEs

-1-6-0 2-9-8 7-11-0 15-0-0 16-4-0 22-8-0  
1-6-0 2-9-8 5-1-8 7-1-0 1-4-0 6-4-0

Scale = 1:47.1

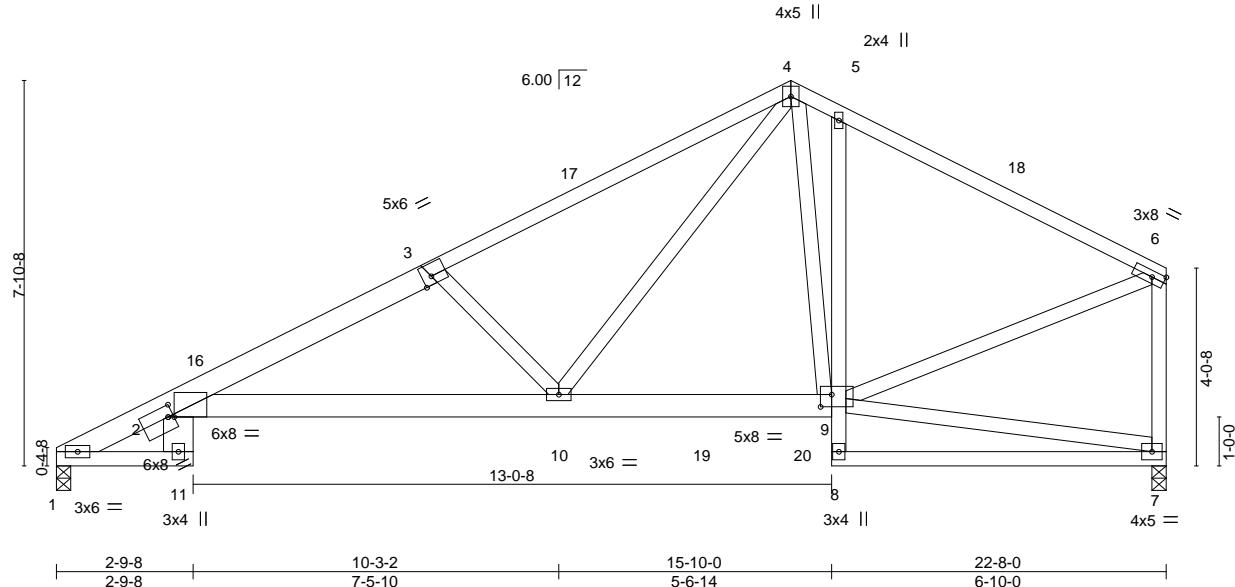


Plate Offsets (X,Y)-- [2:0-1-5,0-2-12], [2:0-1-8,0-0-0], [3:0-2-4,Edge], [9:0-2-12,0-3-0]

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 0.76	Vert(LL)	-0.25	2-10	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.49	2-10	>555	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.22	7	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 154 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
1-3: 2x6 SP 2400F 2.0E or 2x6 SP M 26  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-11: 2x8 SP 2400F 2.0E, 2-9: 2x6 SP No.2, 5-8: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### REACTIONS.

(size) 1=0-3-8, 7=0-3-8  
Max Horz 1=208(LC 12)  
Max Uplift 1=-219(LC 12), 7=-195(LC 12)  
Max Grav 1=976(LC 2), 7=971(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-15=-531/62, 2-3=-1937/526, 3-4=-1639/447, 4-5=-910/313, 5-6=-944/247,  
6-7=-851/251

BOT CHORD 2-10=-618/1788, 9-10=-182/761, 5-9=-392/247  
WEBS 3-10=-634/356, 4-10=-315/1045, 4-9=-176/277, 6-9=-187/814

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-1-12, Zone1 3-1-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 22-6-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=219, 7=195.

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:

September 10, 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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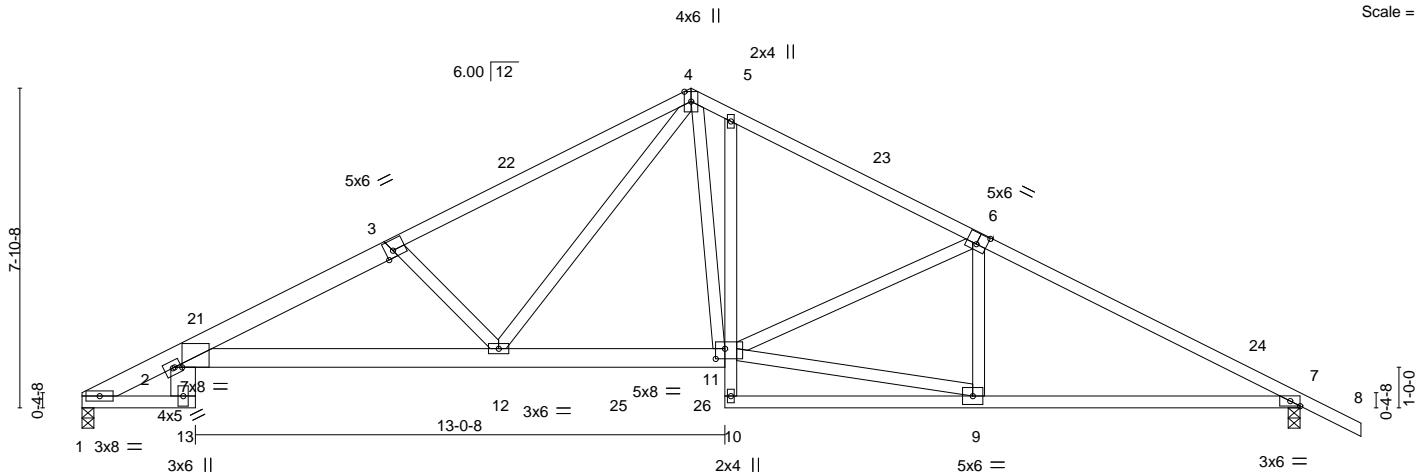
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 4847431	Truss T10	Truss Type Roof Special	Qty 3	Ply 1	LOT 1 CROSSWINDS	T38484015
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:16 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-?10vAsW5oi5c0uARPi\_0w?3P9jTEQFfwch3J9SyfMEr

-1-6-0 2-9-8 7-11-0 15-0-0 15-10-0 22-1-0 30-0-0 31-6-0  
1-6-0 2-9-8 5-1-8 7-1-0 0-10-0 6-3-0 7-11-0 1-6-0

Scale = 1:56.7



2-9-8 10-3-2 15-10-0 22-1-0 30-0-0  
2-9-8 7-5-10 5-6-14 6-3-0 7-11-0

Plate Offsets (X,Y)-- [2:0-2-3,0-0-0], [3:0-2-4,Edge], [6:0-3-0,0-3-4], [7:0-2-15,Edge], [11:0-2-12,0-3-0]

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 0.89	Vert(LL)	-0.34	2-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.64	2-12	>566		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.30	7	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 179 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
1-3: 2x6 SP 2400F 2.0E or 2x6 SP M 26  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-13: 2x8 SP 2400F 2.0E, 2-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26  
5-10: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

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

#### REACTIONS.

(size) 1=0-3-8, 7=0-3-8  
Max Horz 1=150(LC 17)  
Max Uplift 1=-280(LC 12), 7=-322(LC 13)  
Max Grav 1=1297(LC 2), 7=1361(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-17=-713/244, 2-3=-2856/665, 3-4=-2553/588, 4-5=-1770/437, 5-6=-1866/406,  
6-7=-2267/473  
BOT CHORD 2-13=-64/289, 2-12=-643/2619, 11-12=-210/1489, 7-9=-309/1963  
WEBS 3-12=-651/346, 4-12=-322/1198, 4-11=-256/763, 9-11=-303/1823, 6-11=-451/248

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 3-1-12, Zone1 3-1-12 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=280, 7=322.

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

September 10, 2025

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Job 4847431	Truss T12	Truss Type Common	Qty 6	Ply 1	LOT 1 CROSSWINDS	T38484017
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:17 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-TDaHNCXjZ0DTe2ldzPVFSCcbd7pU9np3qLpthuyfMEq

7-11-0 15-0-0 22-1-0 30-0-0 31-6-0  
7-11-0 7-1-0 7-1-0 7-11-0 1-6-0

Scale = 1:52.9

4x5 =

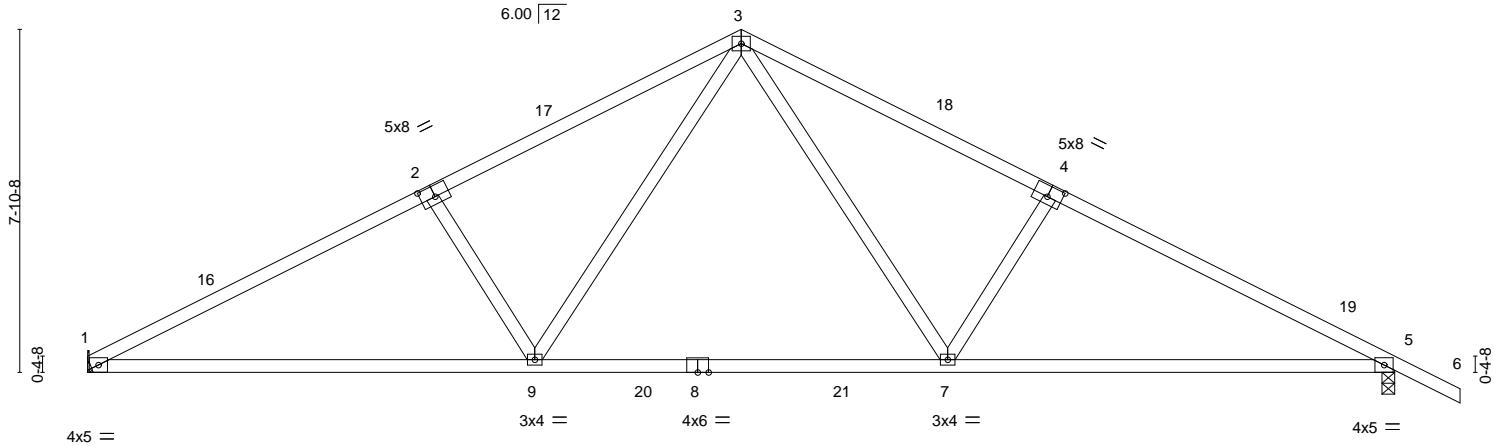


Plate Offsets (X,Y)-- [2:0-4-0,0-0-3-0], [4:0-4-0,0-0-3-0]

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 0.78	Vert(LL)	-0.25	7-9	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.52	9-12	>692	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.06	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 136 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1  
WEBS 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 8-11-5 oc bracing.

#### REACTIONS.

(size) 1=Mechanical, 5=0-3-8  
Max Horz 1=150(LC 13)  
Max Uplift 1=284(LC 12), 5=323(LC 13)  
Max Grav 1=1307(LC 2), 5=1386(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2260/490, 2-3=-2085/497, 3-4=-2078/491, 4-5=-2253/484  
BOT CHORD 1-9=-464/1981, 7-9=-185/1314, 5-7=-320/1972  
WEBS 3-7=-239/881, 4-7=-461/292, 3-9=-246/892, 2-9=-467/295

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 0-0-0 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 31-6-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (j=lb) 1=284, 5=323.

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

September 10, 2025

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Job 4847431	Truss T12G	Truss Type Common Supported Gable	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484018
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:18 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-xQ7faYXLKJLJGCJqX71U?Q9wCXL7uHrD3?YQDLYfMEp

15-0-0 30-0-0 31-6-0  
15-0-0 15-0-0 1-6-0

Scale = 1:51.7

4x5 =

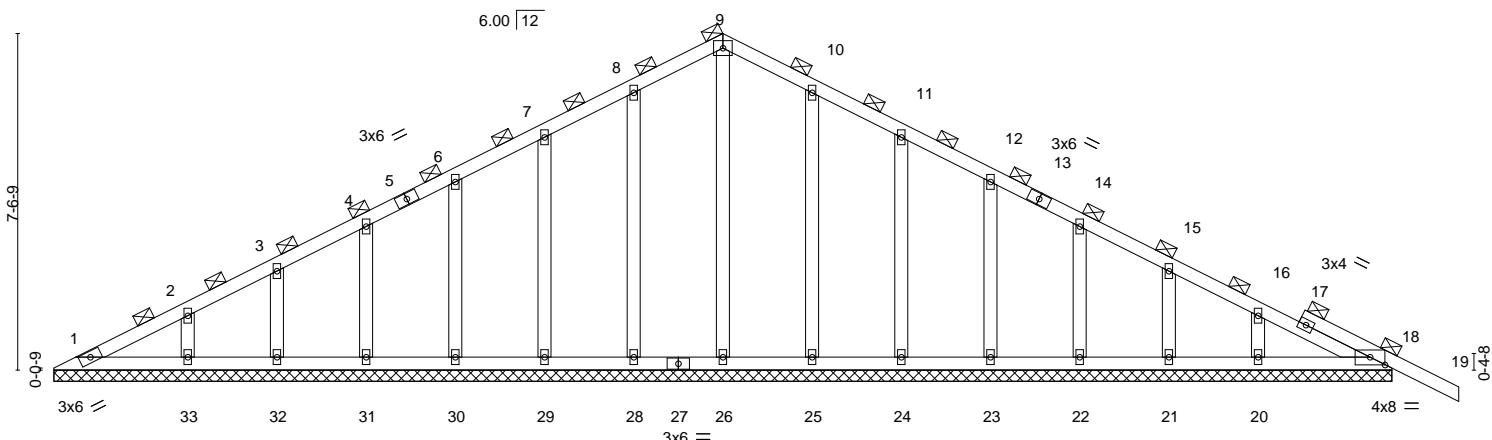


Plate Offsets (X,Y)-- [18:0-4-0,0-2-1]

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 0.15	Vert(LL)	-0.01	19	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.01	19	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	18	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 172 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

All bearings 30-0-0.  
(lb) - Max Horz 1=143(LC 17)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18  
Max Grav All reactions 250 lb or less at joint(s) 1, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

#### FORCES.

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18.
- 11) 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 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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Date:

September 10, 2025

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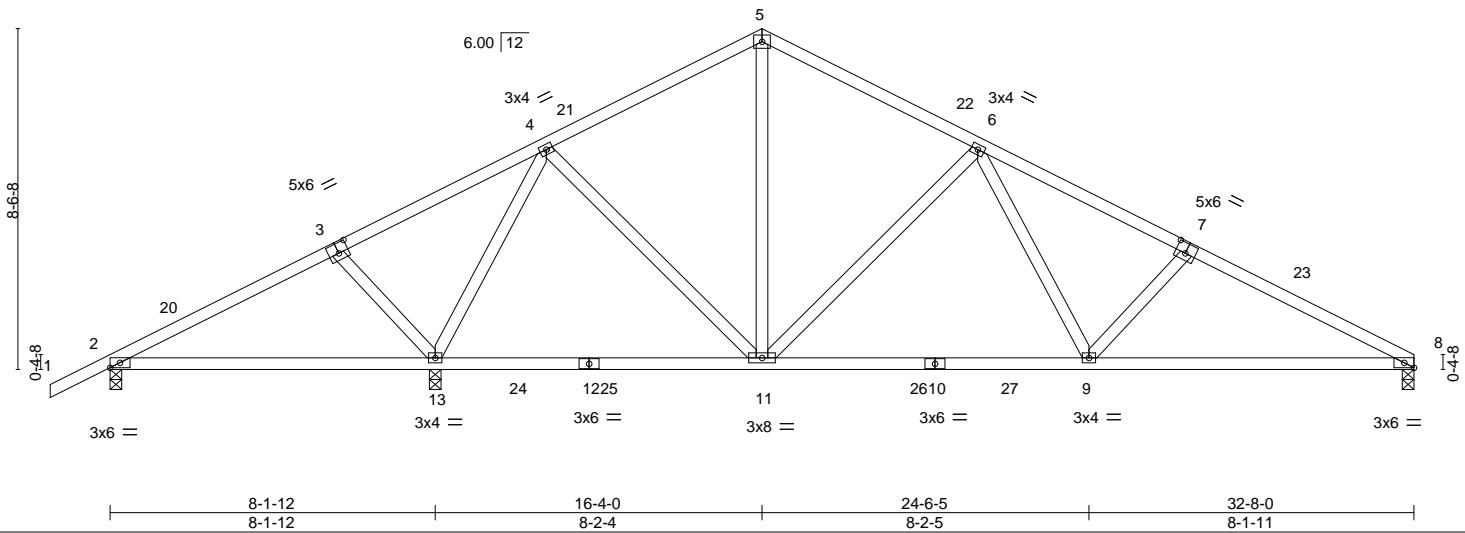
Job 4847431	Truss T13	Truss Type Common	Qty 10	Ply 1	LOT 1 CROSSWINDS	T38484019
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:19 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-Pch1ouYz5dTAtMu05qYjYdh1ZxVEdXjMifl\_mnyfMEo

-1-6-0 5-8-8 10-11-2 16-4-0 21-8-14 26-11-8 32-8-0  
1-6-0 5-8-8 5-2-10 5-4-14 5-4-14 5-2-10 5-8-8

Scale = 1:57.7

4x5 =



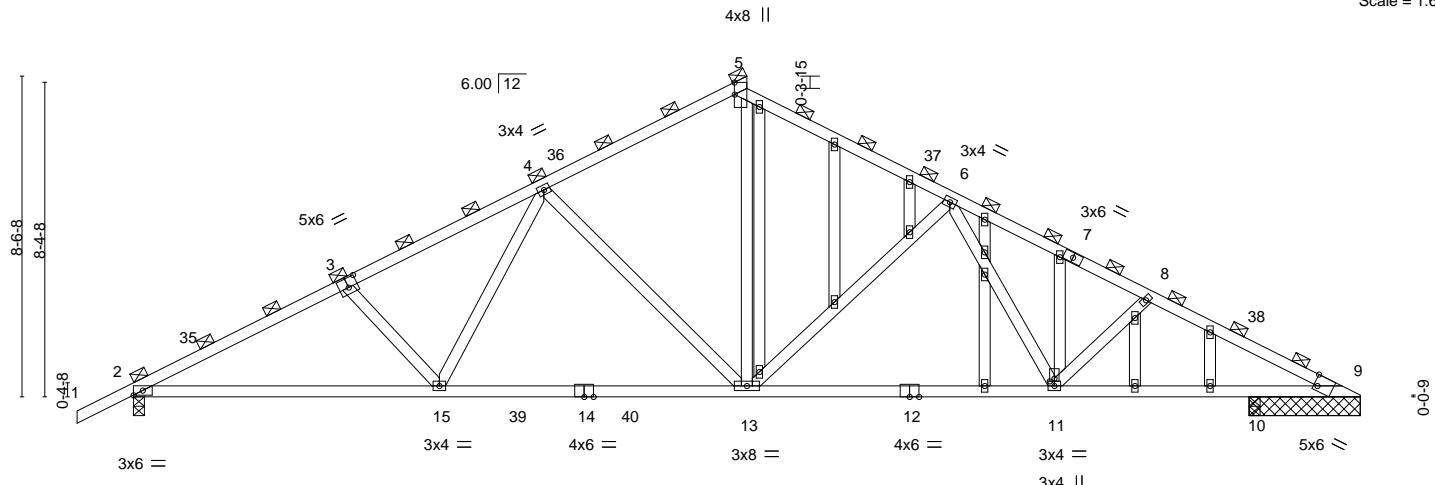
Job 4847431	Truss T13G	Truss Type GABLE	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484020
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:19 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-Pch1ouYz5dTAtMu05qYjYdh1\_xThdb6Mifl\_mnyfMEo

-1-6-0 5-8-8 10-11-2 16-4-0 21-8-14 26-11-8 32-8-0  
1-6-0 5-8-8 5-2-10 5-4-14 5-4-14 5-2-10 5-8-8

Scale = 1:61.3



8-1-12 16-4-0 24-6-4 30-0-0 32-8-0  
8-1-12 8-2-4 8-2-4 5-5-12 2-8-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [5:0-3-14,Edge], [9:0-1-3,Edge], [11:0-0-15,0-1-8]

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 0.40	Vert(LL)	-0.20	11-13	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.40	11-13	>887	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.10	9	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 202 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1 \*Except\*  
12-14: 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

#### REACTIONS.

(size) 2=0-3-8, 9=2-11-8, 10=0-3-8  
Max Horz 2=157(LC 16)  
Max Uplift 2=341(LC 12), 9=205(LC 13), 10=116(LC 13)  
Max Grav 2=1438(LC 2), 9=875(LC 2), 10=573(LC 2)

#### FORCES.

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

TOP CHORD 2-3=2490/551, 3-4=2323/524, 4-5=1560/385, 5-6=-1613/394, 6-8=-2208/498,  
8-9=-2372/536

BOT CHORD 2-15=-556/2194, 13-15=-380/1768, 11-13=-272/1756, 10-11=-412/2071, 9-10=-412/2071  
WEBS 5-13=-234/1142, 6-13=-558/282, 6-11=-72/374, 8-11=-256/179, 4-13=-621/281,  
4-15=-112/576, 3-15=-302/193

#### 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 1-9-3, Zone1 1-9-3 to 16-2-1, Zone2 16-2-1 to 20-9-8, Zone1 20-9-8 to 32-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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=341, 9=205, 10=116.
- 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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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 4847431	Truss T14G	Truss Type GABLE	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484021
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:20 2025 Page 1 ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-toFP?DZbsxb1VWTCeY3y4rEAyKpuM2FVWJ1XIDyfMEn

5-8-8 10-11-2 16-4-0 21-8-14 26-11-8 32-8-0  
5-8-8 5-2-10 5-4-14 5-4-14 5-2-10 5-8-8

4x8 ||

Scale = 1:60.3

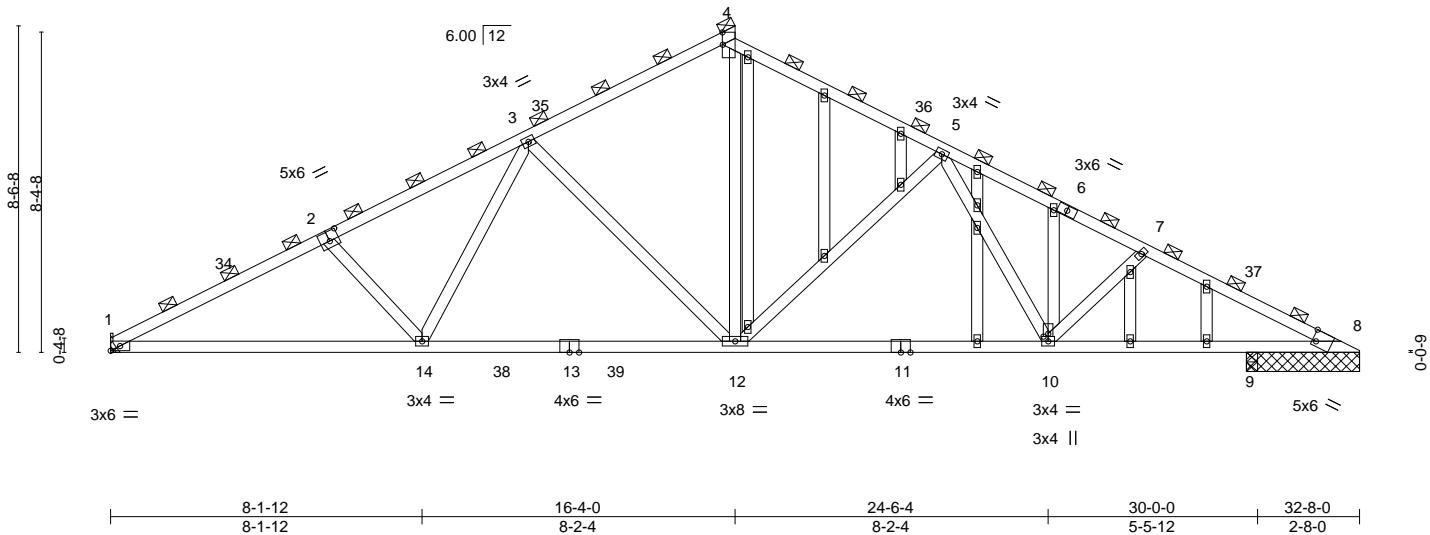


Plate Offsets (X,Y)-- [2:0-3-0,0-3-0], [4:0-3-14,Edge], [8:0-1-3,Edge], [10:0-0-15,0-1-8]

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 0.45	Vert(LL)	-0.20	10-12	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.41	10-12	>884	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.10	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 200 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.1 \*Except\*  
11-13: 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

#### BRACING-

TOP CHORD 2-0-0 oc purlins (3-3-7 max.).  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

#### REACTIONS. (size) 1=Mechanical, 8=2-11-8, 9=0-3-8

Max Horz 1=143(LC 13)  
Max Uplift 1=303(LC 12), 8=-205(LC 13), 9=-116(LC 13)  
Max Grav 1=1361(LC 2), 8=876(LC 2), 9=573(LC 2)

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

TOP CHORD 1-2=-2507/561, 2-3=-2338/533, 3-4=-1564/386, 4-5=-1617/397, 5-7=-2212/499,  
7-8=-2376/536

BOT CHORD 1-14=-567/2212, 12-14=-385/1775, 10-12=-274/1760, 9-10=-413/2075, 8-9=-413/2075  
WEBS 4-12=-236/1145, 5-12=-558/282, 5-10=-72/374, 7-10=-256/179, 3-12=-626/285,  
3-14=-120/588, 2-14=-312/198

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 0-0 to 3-3-3, Zone1 3-3-3 to 16-2-1, Zone2 16-2-1 to 20-9-8, Zone1 20-9-8 to 32-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=303, 8=205, 9=116.
- 11) 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 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:

September 10, 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 DS-B-22** available from the Truss Plate Institute ([www.tpiinst.org](http://www.tpiinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

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

Job 4847431	Truss T15	Truss Type Common	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484022
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

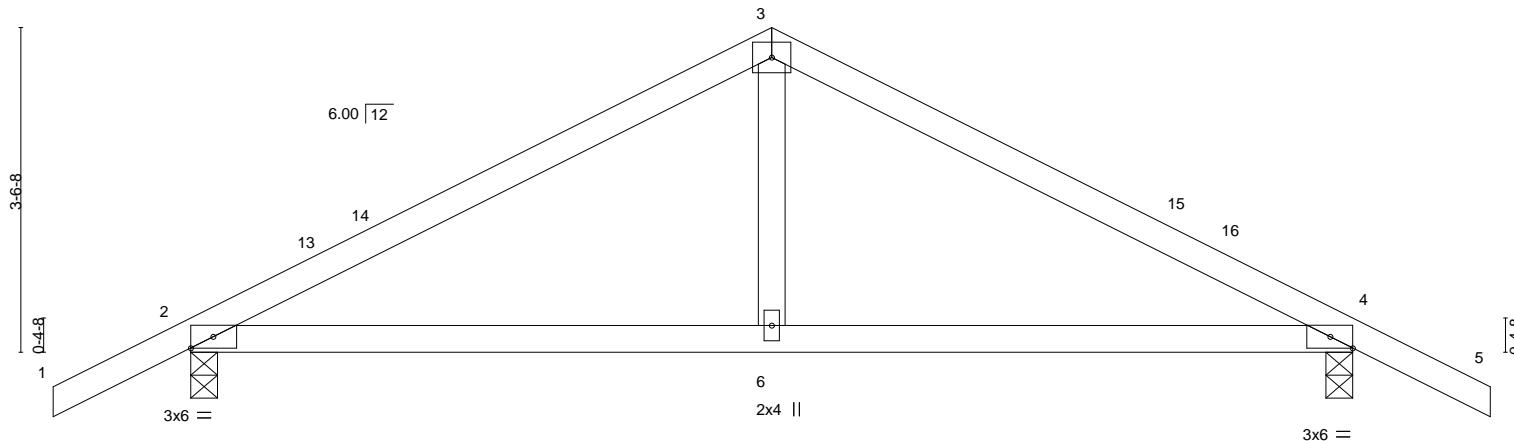
8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:21 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-L?poDZaDdEju7g2OCFaBd2nLjkHz5f?flzn4qfyfMEm

-1-6-0 1-6-0 6-4-0 6-4-0

12-8-0 6-4-0 14-2-0 1-6-0

Scale = 1:25.1

4x5 =



6-4-0 6-4-0 12-8-0 6-4-0

#### Plate Offsets (X,Y)-- [4:0-2-15,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 0.45	Vert(LL)	-0.05	6-12	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.09	6-12	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	4	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 50 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 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=65(LC 16)  
Max Uplift 2=-159(LC 12), 4=-159(LC 13)  
Max Grav 2=597(LC 1), 4=597(LC 1)

#### FORCES.

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

TOP CHORD 2-3=-696/226, 3-4=-696/226

BOT CHORD 2-6=-83/554, 4-6=-83/554

WEBS 3-6=0/293

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 6-4-0, Zone2 6-4-0 to 10-6-15, Zone1 10-6-15 to 14-2-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=159, 4=159.

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:

September 10, 2025

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

Job 4847431	Truss T15G	Truss Type Common Supported Gable	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484023
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:21 2025 Page 1  
ID:UBRuYsnCX6QV?mdy=de3qqLyfNOg-L?poDZaDdEju7g2OCFaBd2nQQkN85g7flzn4qfyfMEm

-1-6-0 6-4-0 12-8-0 14-2-0  
1-6-0 6-4-0 6-4-0 1-6-0

Scale = 1:25.9

4x5 =

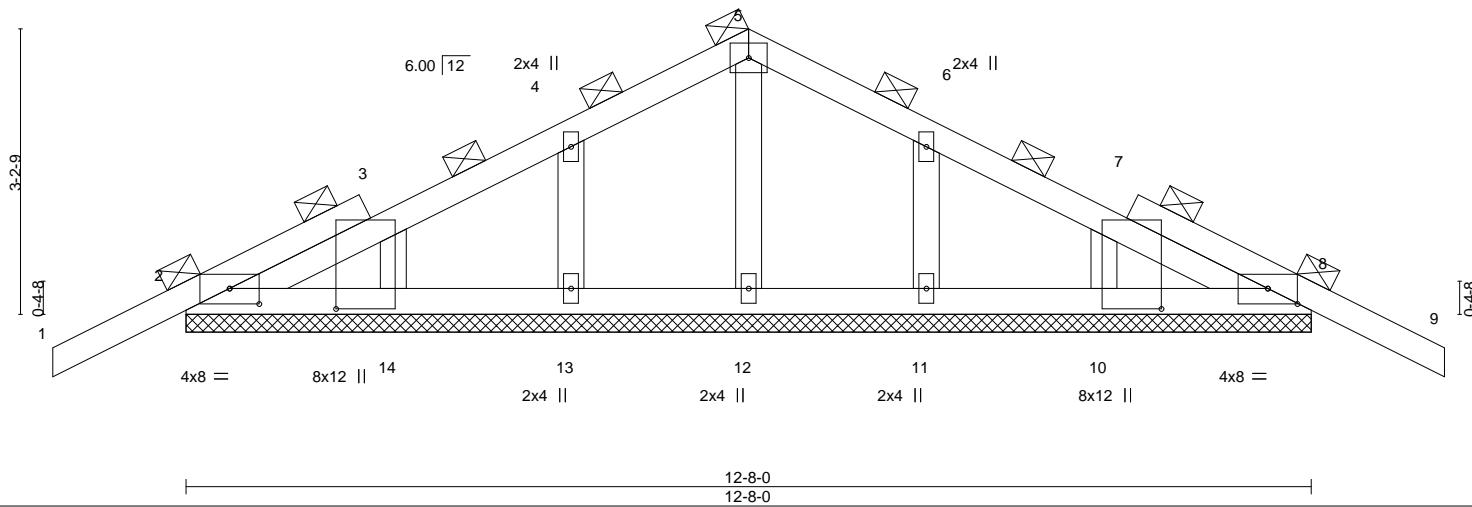


Plate Offsets (X,Y)-- [2:0-4-0,0-0-2-1], [8:0-4-0,0-0-2-1], [10:0-2-12,1-2-6], [14:0-2-12,1-2-6]

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 0.15	Vert(LL)	-0.01	9	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.01	9	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 61 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

All bearings 12-8-0.  
(lb) - Max Horz 2-60(LC 13)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10  
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

#### FORCES.

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

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.
- 10) 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 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:

September 10, 2025

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

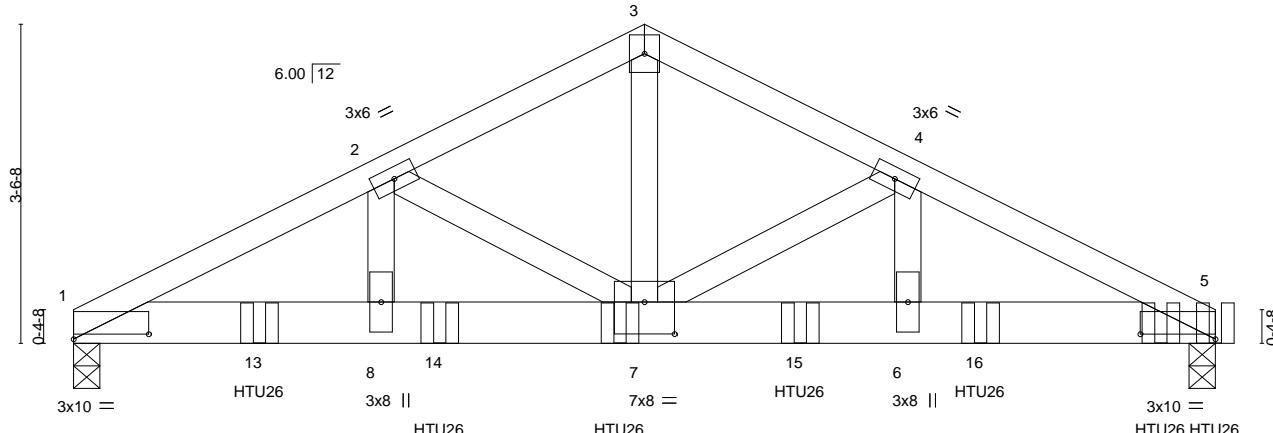
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Job 4847431	Truss T16	Truss Type Common Girder	Qty 1	Ply 2	LOT 1 CROSSWINDS	T38484024
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-pBNAQvbrOYrlkpdbmz5Q9GJXF8dbqwUo\_dWeM6yfMEI

3-4-15 6-4-0 9-3-1 12-8-0  
3-4-15 2-11-1 2-11-1 3-4-15

4x5 ||



Scale = 1:25.6

3-4-15 6-4-0 9-3-1 12-8-0  
3-4-15 2-11-1 2-11-1 3-4-15

Plate Offsets (X,Y)--	[1:0-10-0,0-0-11], [5:0-10-0,0-0-11], [7:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.40	Vert(LL)	-0.07	6-7	>999	240
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.13	6-7	>999	180
BCLL 0.0 *	Rep Stress Incr	1.25	WB 0.86	Horz(CT)	0.03	5	n/a	n/a
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 136 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8 (req. 0-3-10)  
Max Horz 1=-53(LC 34)  
Max Uplift 1=-890(LC 8), 5=-1399(LC 9)  
Max Grav 1=3855(LC 2), 5=6108(LC 2)

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

TOP CHORD 1-2=-7286/1674, 2-3=-5324/1235, 3-4=-5326/1236, 4-5=-7690/1767  
BOT CHORD 1-8=-1509/6504, 7-8=-1509/6504, 6-7=-1540/6877, 5-6=-1540/6877  
WEBS 3-7=-1023/4541, 4-7=-2462/628, 4-6=-460/2136, 2-7=-2031/530, 2-8=-376/1767

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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=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; 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.
- WARNING: Required bearing size at joint(s) 5 greater than input bearing size.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=890, 5=1399.
- Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 12-8-0 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

#### LOAD CASE(S) Standard

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

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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:

September 10, 2025

Continued on page 2

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

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**MiTek®**  
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Chesterfield, MO 63017  
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Job 4847431	Truss T16	Truss Type Common Girder	Qty 1	Ply <b>2</b>	LOT 1 CROSSWINDS	T38484024
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 2  
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**LOAD CASE(S)** Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 5=-1250(B) 7=-1178(B) 12=-1182(B) 13=-1178(B) 14=-1178(B) 15=-1178(B) 16=-1178(B)

 **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 4847431	Truss T17	Truss Type Common	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484025
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:22 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-pBNAQvbrOYrlkpdmbz5Q9GJZ8f9q6Yo\_dWeM6yfMEI

-1-6-0 5-4-0 10-8-0 12-2-0  
1-6-0 5-4-0 5-4-0 1-6-0

Scale = 1:21.9

4x5 =

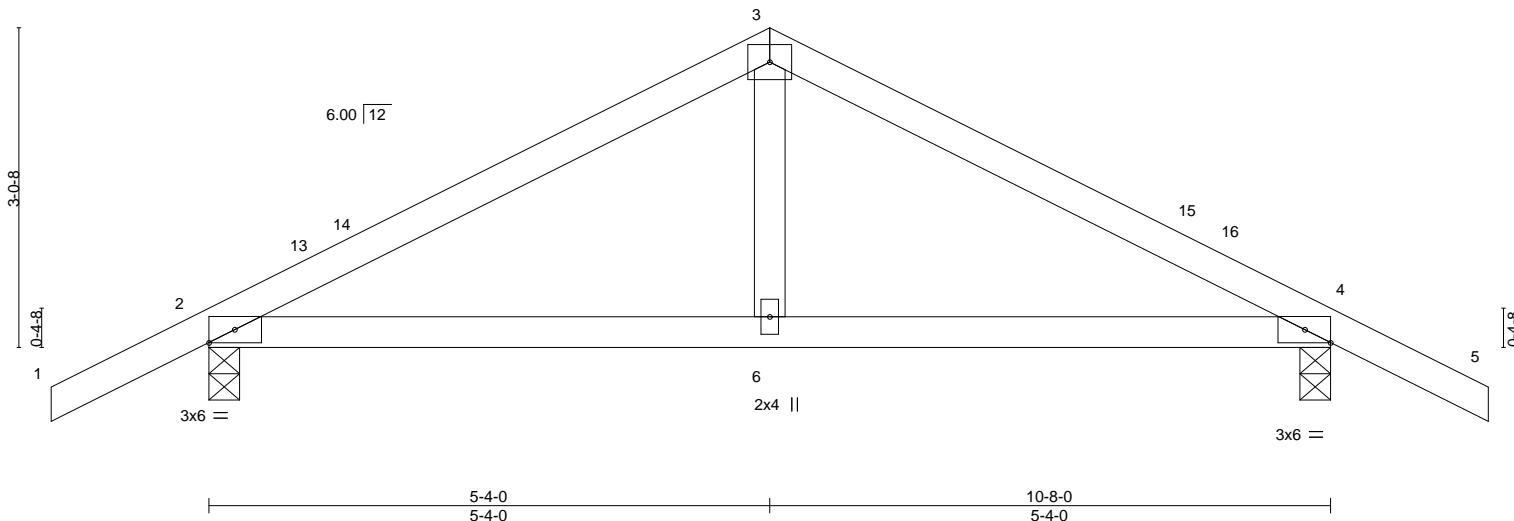


Plate Offsets (X,Y)-- [4:0-2-15,Edge]

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 0.29	Vert(LL)	0.04	6-12	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.05	6-9	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	4	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 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 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=57(LC 12)  
Max Uplift 2=-140(LC 9), 4=-140(LC 8)  
Max Grav 2=517(LC 1), 4=517(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-571/382, 3-4=-571/383  
BOT CHORD 2-6=-225/454, 4-6=-225/454

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 5-4-0, Zone2 5-4-0 to 9-6-15, Zone1 9-6-15 to 12-2-0 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 4=140.

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:

September 10, 2025

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**MiTek®**  
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Chesterfield, MO 63017  
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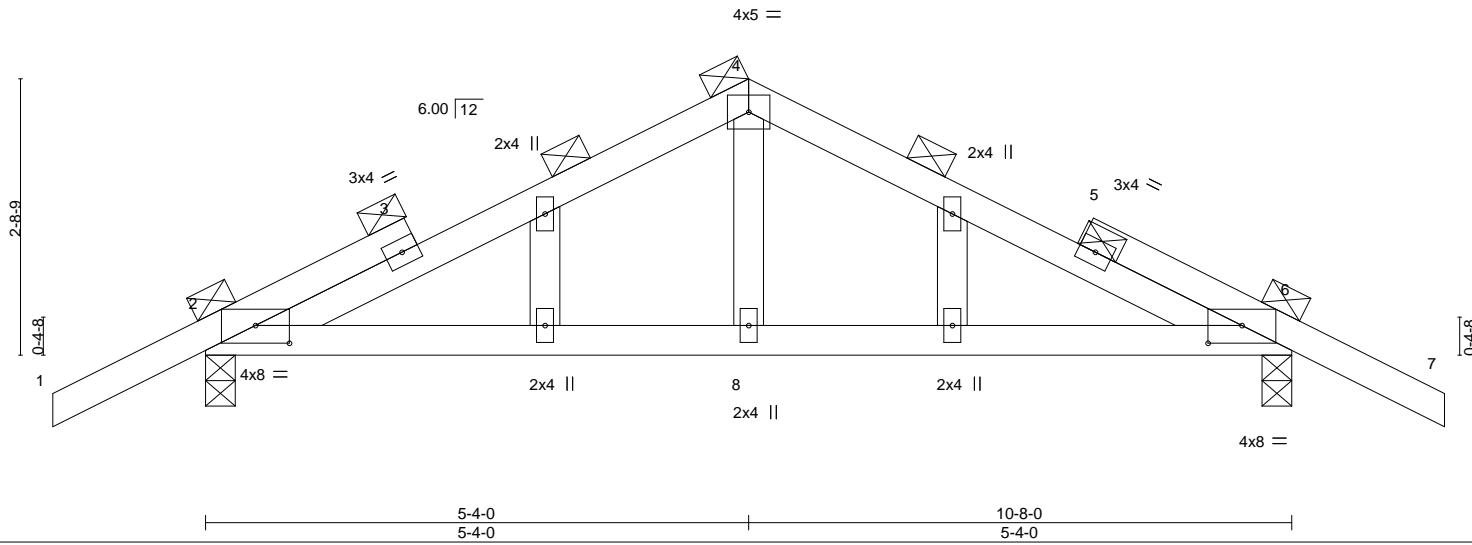
Job 4847431	Truss T17G	Truss Type GABLE	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484026
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:23 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-INxYeFbU9szcMzCnKgcfiTsj4Y?NZZryDHGBvYyfMEk

-1-6-0 1-6-0 5-4-0 5-4-0 10-8-0 5-4-0 12-2-0 1-6-0

Scale = 1:22.6



5-4-0 5-4-0 10-8-0 5-4-0

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

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 0.33	Vert(LL)	0.04	8-18	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.05	8-15	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 50 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).  
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

#### REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=52(LC 17)  
Max Uplift 2=142(LC 12), 6=-142(LC 13)  
Max Grav 2=514(LC 1), 6=514(LC 1)

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

TOP CHORD 2-4=561/494, 4-6=560/494

BOT CHORD 2-8=-325/487, 6-8=-325/487

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=142, 6=142.
- 9) 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 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  
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Date:

September 10, 2025

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**MiTek®**  
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314.434.1200 / MiTek-US.com

Job 4847431	Truss T18	Truss Type Common	Qty 2	Ply 1	LOT 1 CROSSWINDS	T38484027
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:23 2025 Page 1

ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-INxYeFbU9szcMzCnKgcflTsj1YxbZX?yDHBvYyfMEk

-1-6-0 5-6-5 10-8-0 15-9-11 21-4-0 22-10-0  
1-6-0 5-6-5 5-1-11 5-6-5 1-6-0

Scale = 1:39.2

4x5 =

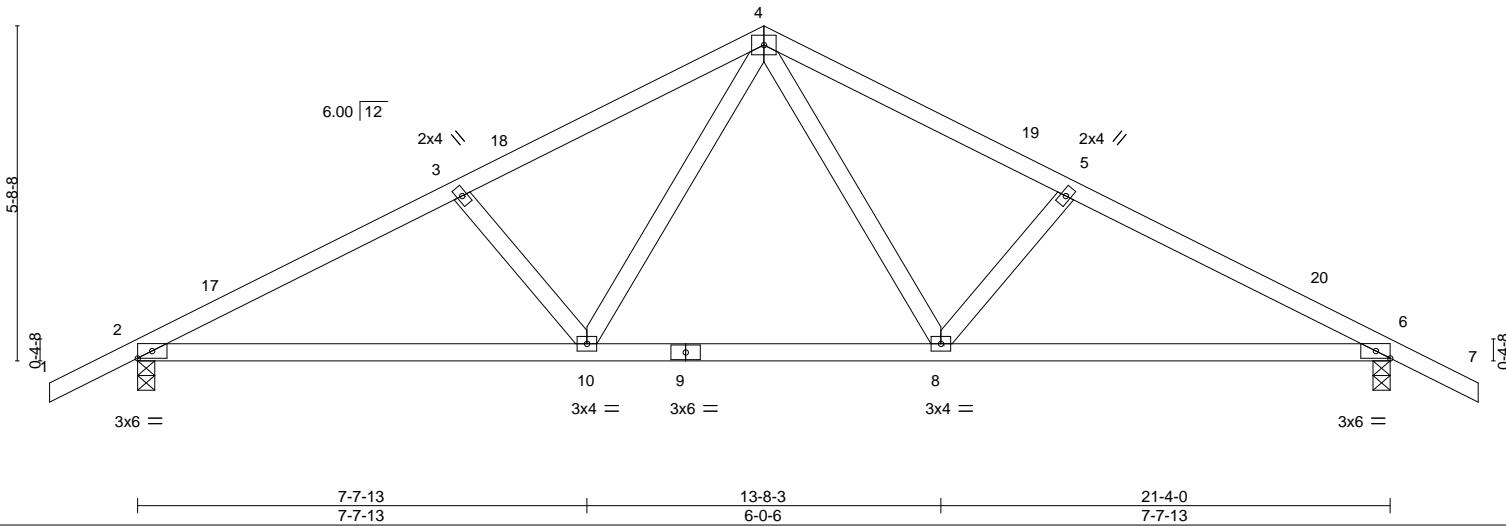


Plate Offsets (X,Y)-- [6:0-2-15,Edge]	
LOADING (psf)	SPACING- 2-0-0
TCLL 20.0	Plate Grip DOL 1.25
TCDL 10.0	Lumber DOL 1.25
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code FBC2023/TPI2014
CSI.	DEFL.
TC 0.33	in (loc) l/defl L/d
BC 0.55	Vert(LL) 0.10 10-13 >999 240
WB 0.21	Vert(CT) -0.18 10-13 >999 180
Matrix-MS	Horz(CT) 0.04 6 n/a n/a
PLATES	GRIP
MT20	244/190
Weight: 100 lb	FT = 20%

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

**REACTIONS.** (size) 2=0-3-8, 6=0-3-8  
Max Horz 2=101(LC 12)  
Max Uplift 2=-268(LC 9), 6=-268(LC 8)  
Max Grav 2=943(LC 1), 6=943(LC 1)

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

TOP CHORD 2-3=-1447/679, 3-4=-1261/662, 4-5=-1261/662, 5-6=-1447/679  
BOT CHORD 2-10=-530/1258, 8-10=-302/842, 6-8=-548/1258  
WEBS 4-8=-281/456, 5-8=-329/206, 4-10=-281/456, 3-10=-329/206

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 22-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 6=268.

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:

September 10, 2025

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**MiTek**  
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Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job 4847431	Truss T18G	Truss Type GABLE	Qty 1	Ply 1	LOT 1 CROSSWINDS	T38484028
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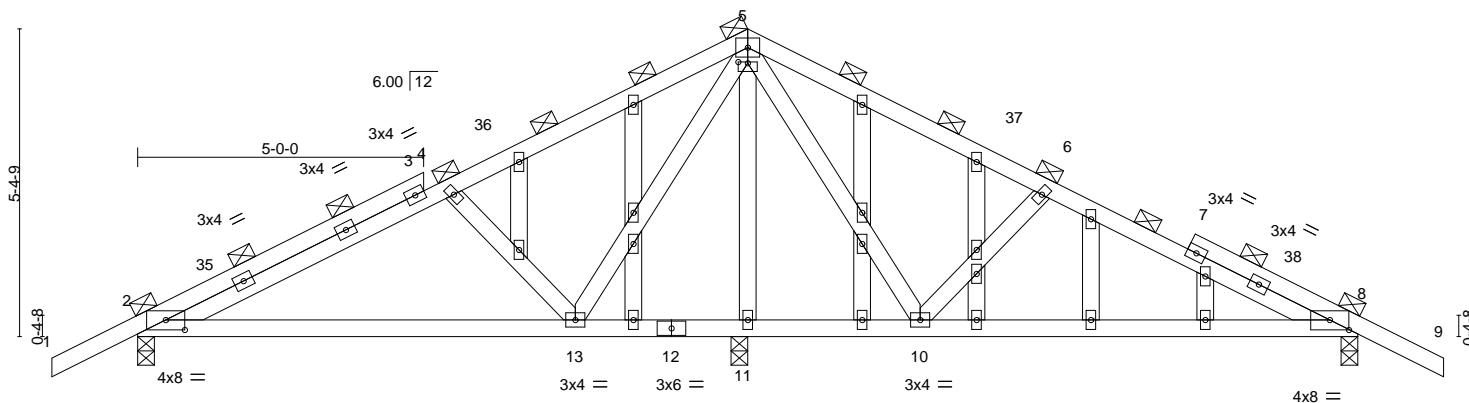
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Aug 14 2025 MiTek Industries, Inc. Tue Sep 9 12:54:24 2025 Page 1  
ID:UBRuYsnCX6QV?mdyde3qqLyfNOg-maVwrb6w95T\_7nztN7uEhPqXyGNI?s5Rx?IR\_yfMEj

-1-6-0 5-6-5 10-8-0 15-9-11 21-4-0 22-10-0  
1-6-0 5-6-5 5-1-11 5-1-11 5-6-5 1-6-0

Scale = 1:40.3

4x5 =



7-7-13 10-4-8 13-8-3 21-4-0  
7-7-13 2-8-11 3-3-11 7-7-13

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

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 0.61	Vert(LL)	0.09	10-34	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.17	10-34	>738	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.03	8	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 138 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins (4-0-10 max.).  
BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing.

#### REACTIONS. (size) 2=0-3-8, 8=0-3-8, 11=0-3-8

Max Horz 2=96(LC 17)  
Max Uplift 2=242(LC 9), 8=244(LC 8), 11=48(LC 9)  
Max Grav 2=859(LC 1), 8=860(LC 1), 11=162(LC 1)

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

TOP CHORD 2-4=1314/620, 4-5=1105/580, 5-6=1120/585, 6-8=1328/622  
BOT CHORD 2-13=499/1178, 11-13=251/732, 10-11=251/732, 8-10=520/1192  
WEBS 5-10=250/410, 6-10=389/216, 5-13=241/394, 4-13=386/218

#### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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 10-8-0, Zone2 10-8-0 to 14-10-15, Zone1 14-10-15 to 22-10-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=242, 8=244.
- 10) 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 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:

September 10, 2025

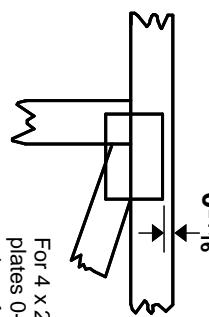
#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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## 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.



This symbol indicates the required direction of slots in connector plates.

\* Plate location details available in MiTek software or upon request.

### PLATE SIZE

4 x 4

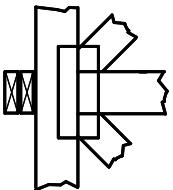
### LATERAL BRACING LOCATION

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.

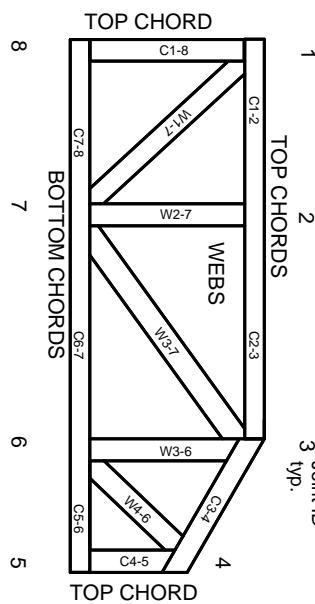


### Industry Standards:

ANSI/TP1: 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

6-4-8 dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



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 section 6.3. These truss designs rely on lumber values established by others.

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# MiTek®

## 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! 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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
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 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.