



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

RE: 4925663 - SMITH RES.

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

**Site Information:**

Customer Info: CHARLES SMITH Project Name: Smith Res. Model: Custom  
Lot/Block: 14 Subdivision: Cannon Creek  
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 62 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.

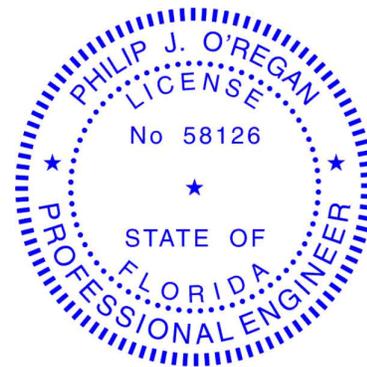
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T39067937	CJ01	11/4/25	15	T39067951	PB01	11/4/25
2	T39067938	CJ03	11/4/25	16	T39067952	PB02	11/4/25
3	T39067939	CJ03A	11/4/25	17	T39067953	PB03	11/4/25
4	T39067940	CJ05	11/4/25	18	T39067954	PB04	11/4/25
5	T39067941	CJ05A	11/4/25	19	T39067955	PB05	11/4/25
6	T39067942	EJ01	11/4/25	20	T39067956	PB06	11/4/25
7	T39067943	EJ02	11/4/25	21	T39067957	PB07	11/4/25
8	T39067944	EJ03	11/4/25	22	T39067958	PB08	11/4/25
9	T39067945	EJ04	11/4/25	23	T39067959	PB09	11/4/25
10	T39067946	EJ05	11/4/25	24	T39067960	T01	11/4/25
11	T39067947	EJ06	11/4/25	25	T39067961	T02	11/4/25
12	T39067948	HJ08	11/4/25	26	T39067962	T03	11/4/25
13	T39067949	HJ10	11/4/25	27	T39067963	T04	11/4/25
14	T39067950	HJ10A	11/4/25	28	T39067964	T05	11/4/25



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.



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

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

November 4, 2025



RE: 4925663 - SMITH RES.

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

**Site Information:**

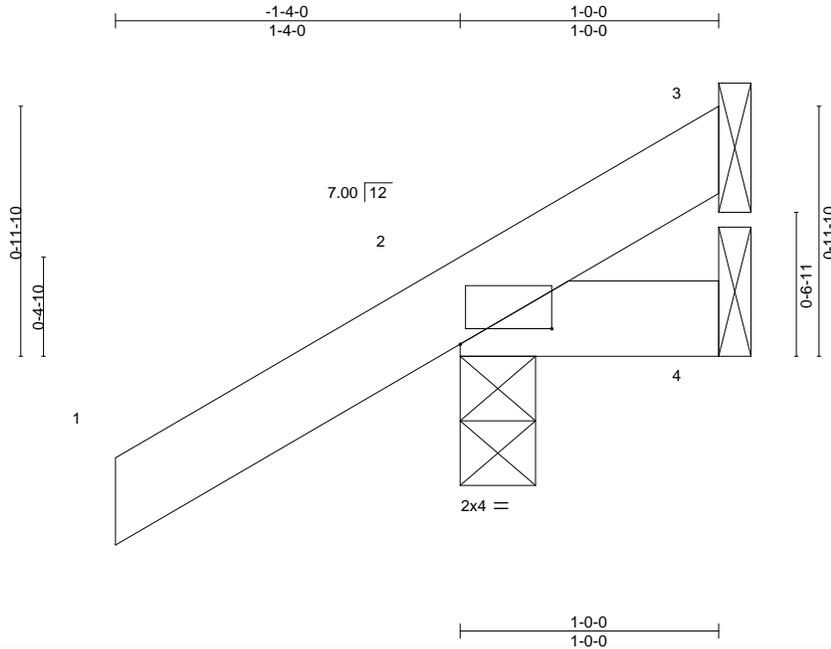
Customer Info: CHARLES SMITH Project Name: Smith Res. Model: Custom  
Lot/Block: 14 Subdivision: Cannon Creek  
Address: TBD, TBD  
City: Lake City, State: FL

No.	Seal#	Truss Name	Date
29	T39067965	T06	11/4/25
30	T39067966	T07	11/4/25
31	T39067967	T08	11/4/25
32	T39067968	T08G	11/4/25
33	T39067969	T09	11/4/25
34	T39067970	T10	11/4/25
35	T39067971	T11	11/4/25
36	T39067972	T12	11/4/25
37	T39067973	T13	11/4/25
38	T39067974	T14	11/4/25
39	T39067975	T15	11/4/25
40	T39067976	T16	11/4/25
41	T39067977	T17	11/4/25
42	T39067978	T18	11/4/25
43	T39067979	T19	11/4/25
44	T39067980	T20	11/4/25
45	T39067981	T21	11/4/25
46	T39067982	T22	11/4/25
47	T39067983	T23	11/4/25
48	T39067984	T24	11/4/25
49	T39067985	T25	11/4/25
50	T39067986	T26	11/4/25
51	T39067987	T27	11/4/25
52	T39067988	T28	11/4/25
53	T39067989	T29	11/4/25
54	T39067990	T30	11/4/25
55	T39067991	T31	11/4/25
56	T39067992	T32	11/4/25
57	T39067993	T32G	11/4/25
58	T39067994	T33	11/4/25
59	T39067995	T33G	11/4/25
60	T39067996	T34	11/4/25
61	T39067997	T34G	11/4/25
62	T39067998	T35	11/4/25

Job 4925663	Truss CJ01	Truss Type Jack-Open	Qty 8	Ply 1	SMITH RES. Job Reference (optional)	T39067937
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:05 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-OZVmMkhumQwkiMN4KJynNZsTB00iINRV6OvxZVyMrRC



Scale = 1:8.9

Plate Offsets (X,Y)--	[2:0-4-4,0-0-12]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.14	Vert(LL) 0.00 7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.03	Vert(CT) 0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 6 lb	FT = 20%

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=48(LC 12)  
Max Uplift 3=4(LC 9), 2=67(LC 12), 4=18(LC 19)  
Max Grav 3=5(LC 16), 2=174(LC 1), 4=16(LC 16)

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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
- 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 connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3, 67 lb uplift at joint 2 and 18 lb uplift at joint 4.

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

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

November 4,2025

**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 4925663	Truss CJ03	Truss Type Jack-Open	Qty 6	Ply 1	SMITH RES. Job Reference (optional)	T39067938
----------------	---------------	-------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sm39Z4iXk2bNWyHu0T0vmOexPLIUqheL1fV5yyMrRB



Scale = 1:14.8

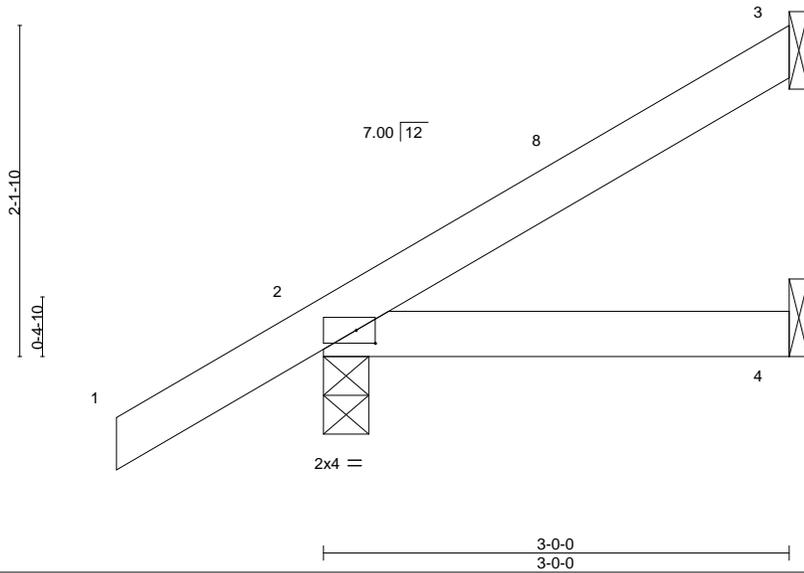


Plate Offsets (X,Y)--	[2:0-1-8,0-1-0]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.14	Vert(LL) 0.01 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.07	Vert(CT) -0.01 4-7 >999 180		
BCLL 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=92(LC 12)  
Max Uplift 3=-47(LC 12), 2=-58(LC 12), 4=-19(LC 9)  
Max Grav 3=70(LC 19), 2=216(LC 1), 4=52(LC 3)

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

**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 and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 2-1-1-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 3, 58 lb uplift at joint 2 and 19 lb uplift at joint 4.

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

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

November 4, 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 4925663	Truss CJ03A	Truss Type Jack-Open	Qty 2	Ply 1	SMITH RES. Job Reference (optional)	T39067939
----------------	----------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sm39Z4iXXk2bNWyHu0T0vmOexPLCUqheL1fV5yyMrRB



Scale = 1:14.8

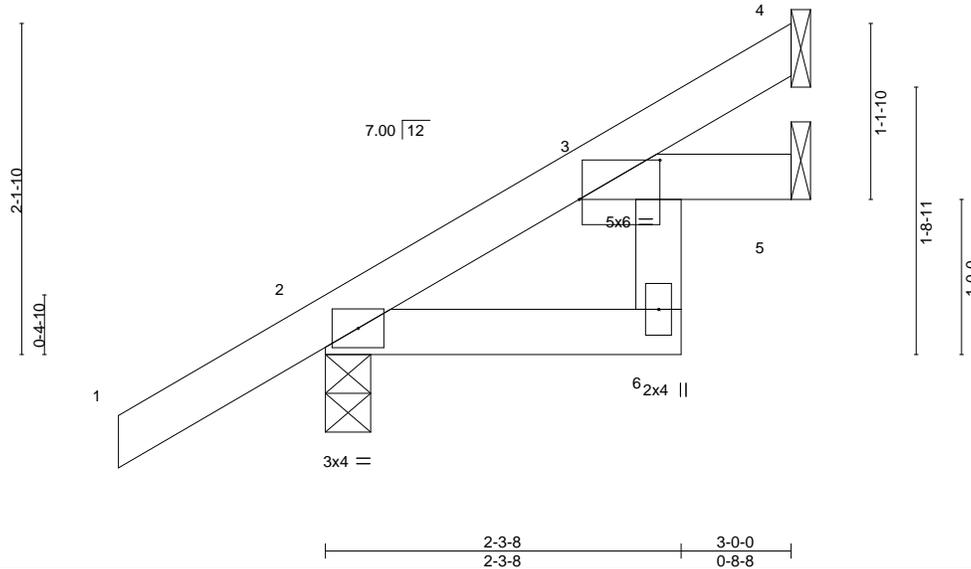


Plate Offsets (X,Y)--	[3:0-6-4,0-3-1]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	0.01	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR					Weight: 14 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-6: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
Max Horz 2=92(LC 12)  
Max Uplift 4=-31(LC 12), 2=-57(LC 12), 5=-14(LC 12)  
Max Grav 4=61(LC 19), 2=217(LC 1), 5=51(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 4, 57 lb uplift at joint 2 and 14 lb uplift at joint 5.

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

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

November 4, 2025

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

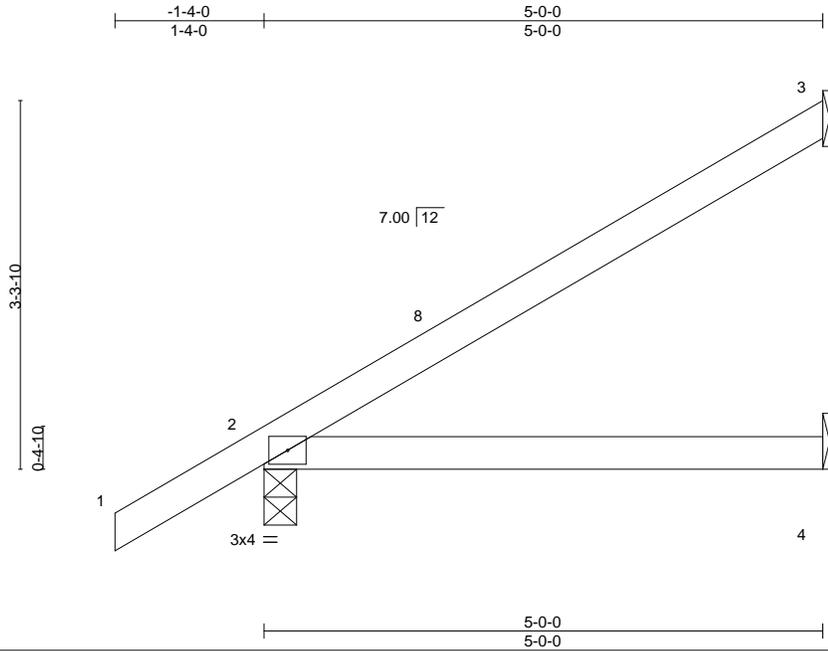
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 4925663	Truss CJ05	Truss Type Jack-Open	Qty 6	Ply 1	SMITH RES. Job Reference (optional)	T39067940
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:06 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sm39Z4iXk2bNWyHu0T0vmOcDPJUUqheL1fV5yyMrRB



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 0.32	Vert(LL)	0.06 4-7	>999	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/TP12014		Matrix-MP					Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	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=137(LC 12)  
 Max Uplift 3=-85(LC 12), 2=-65(LC 12), 4=-34(LC 9)  
 Max Grav 3=130(LC 19), 2=288(LC 1), 4=91(LC 3)

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

- 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 and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 3, 65 lb uplift at joint 2 and 34 lb uplift at joint 4.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TP1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
---	--

Job 4925663	Truss CJ05A	Truss Type Jack-Open	Qty 2	Ply 1	SMITH RES. Job Reference (optional)	T39067941
----------------	----------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:07 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KydXnQj911AS\_gXTRk\_FS\_xlcpoDHxnZhO2eOyMrRA



Scale = 1:20.5

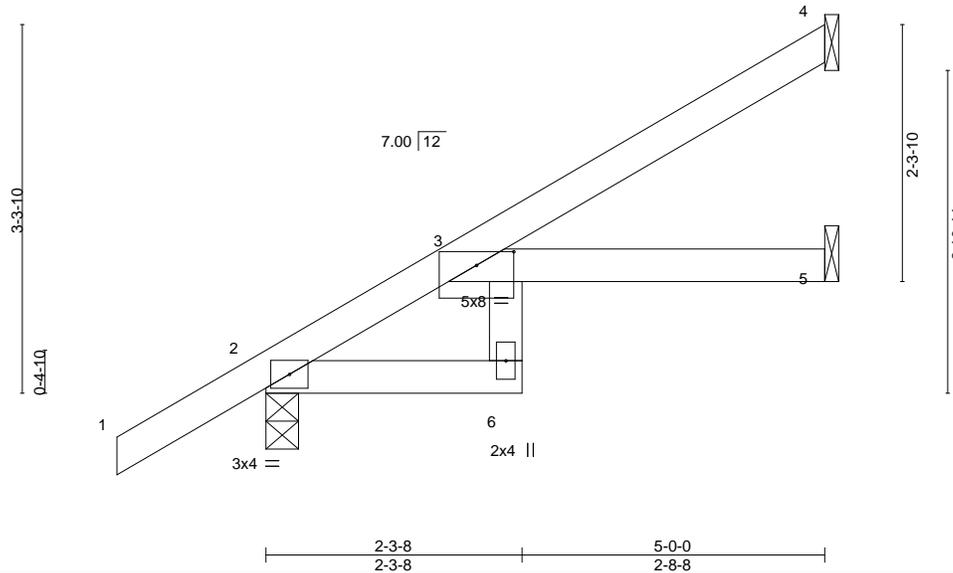


Plate Offsets (X,Y)--	[3:0-4-0,0-1-7]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	0.06	6	>960	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.09	6	>679	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR						Weight: 21 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
3-6: 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
Max Horz 2=137(LC 12)  
Max Uplift 4=-70(LC 12), 2=-64(LC 12), 5=-17(LC 12)  
Max Grav 4=121(LC 19), 2=292(LC 1), 5=89(LC 3)

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

**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 and C-C Zone3 -1-4-0 to 1-10-7, Zone1 1-10-7 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 4, 64 lb uplift at joint 2 and 17 lb uplift at joint 5.

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

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

November 4, 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 4925663	Truss EJ01	Truss Type Jack-Partial	Qty 24	Ply 1	SMITH RES. T39067942
----------------	---------------	----------------------------	-----------	----------	-------------------------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:07 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KydXnQj9I1AS\_gXTrk\_FS\_xhzpa9DHxnZhO2eOyMrRA



Scale = 1:26.2

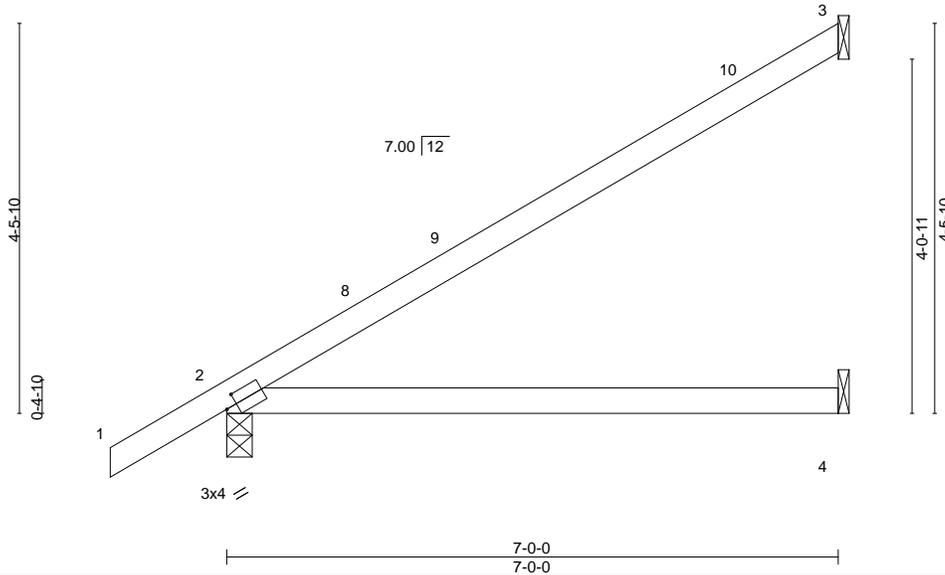


Plate Offsets (X,Y)--	[2:0-1-8,0-1-8]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	0.12 4-7	>670	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.23 4-7	>356	180		
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=176(LC 12)  
 Max Uplift 3=-109(LC 12), 2=-77(LC 12), 4=-4(LC 12)  
 Max Grav 3=193(LC 19), 2=365(LC 1), 4=130(LC 3)

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

**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 and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 109 lb uplift at joint 3, 77 lb uplift at joint 2 and 4 lb uplift at joint 4.

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

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

November 4, 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)

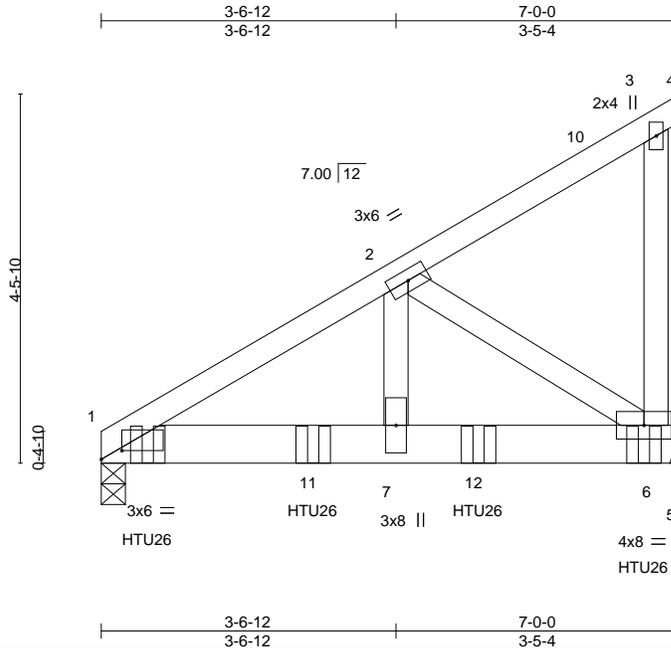
**MiTek®**

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

Job 4925663	Truss EJ02	Truss Type Jack-Closed Girder	Qty 1	Ply 1	SMITH RES. T39067943
----------------	---------------	----------------------------------	----------	----------	-------------------------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:08 2025 Page 1

ID:RRWY3H?ZSWKaoWnWdNMhTAz6oa1-o8Bv\_mjn3LIcq5f?RVU\_BUz5Dx7yFxoL8bAqyMrR9



Scale = 1:27.7

Plate Offsets (X,Y)--	[1:0-3-0,0-1-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.23	Vert(LL) -0.02 7-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.50	Vert(CT) -0.04 7-9 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.38	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			
				Weight: 42 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-1-15 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-8, 6=Mechanical  
Max Horz 1=150(LC 29)  
Max Uplift 1=-261(LC 8), 6=-383(LC 8)  
Max Grav 1=1156(LC 1), 6=1332(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1183/240  
BOT CHORD 1-7=-312/1012, 6-7=-312/1012  
WEBS 2-7=-224/1000, 2-6=-1199/368

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 1 and 383 lb uplift at joint 6.
- Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-6-12 from the left end to 6-6-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-4=-20, 1-5=-20  
Concentrated Loads (lb)  
Vert: 6=-488(F) 9=-487(F) 11=-482(F) 12=-482(F)

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

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

November 4, 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)

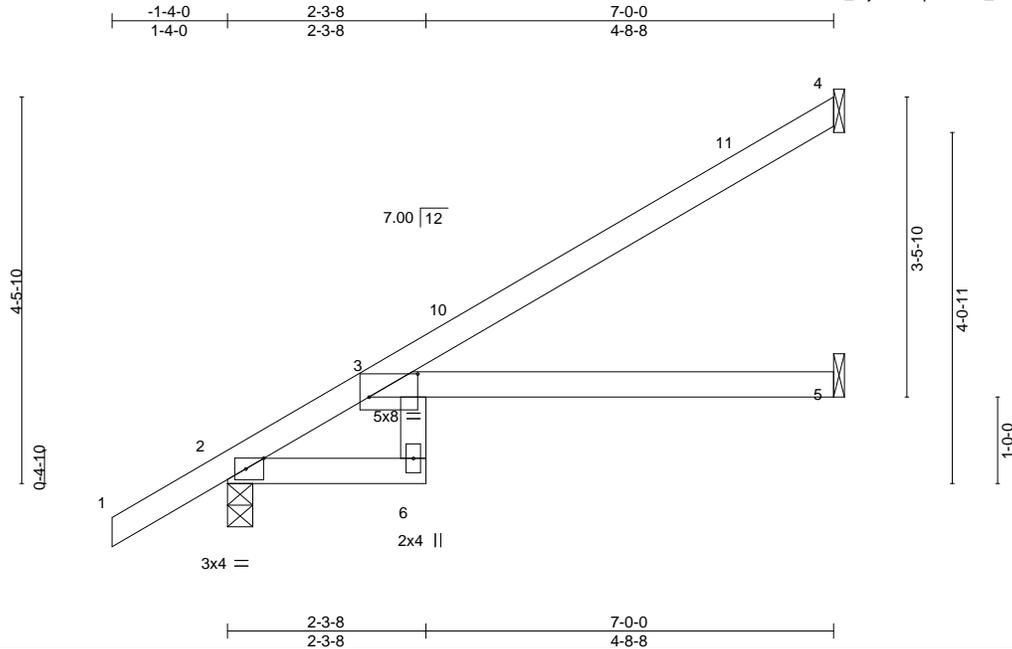
**MiTek®**

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

Job 4925663	Truss EJ03	Truss Type Jack-Partial	Qty 5	Ply 1	SMITH RES. Job Reference (optional)	T39067944
----------------	---------------	----------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:08 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-o8Bv\_mjn3LlIcq5f?RVU\_BUusrDumykbXoL8bAqyMrR9



Scale = 1:26.5

Plate Offsets (X,Y)--	[2:0-2-8,Edge], [3:0-6-12,0-3-3]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.69	Vert(LL) 0.18 3-5 >460 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.65	Vert(CT) -0.29 3-5 >287 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.16 5 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MR		Weight: 27 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 3-6: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8, 5=Mechanical  
 Max Horz 2=176(LC 12)  
 Max Uplift 4=95(LC 12), 2=76(LC 12), 5=18(LC 12)  
 Max Grav 4=180(LC 19), 2=369(LC 1), 5=127(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=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 -1-4-0 to 1-10-7, Zone1 1-10-7 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 4, 76 lb uplift at joint 2 and 18 lb uplift at joint 5.

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

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

November 4,2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--



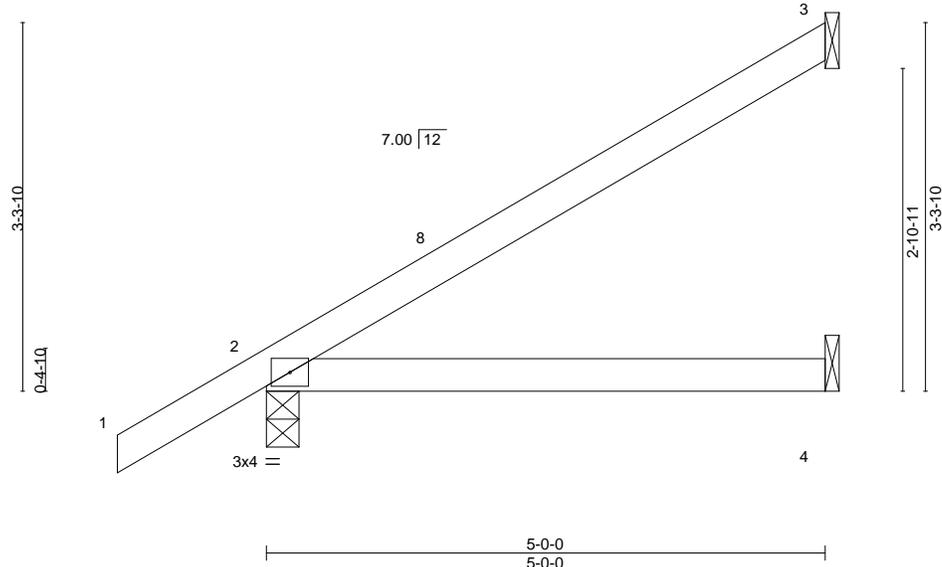
Job 4925663	Truss EJ05	Truss Type Jack-Open	Qty 5	Ply 1	SMITH RES. Job Reference (optional)	T39067946
----------------	---------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:09 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTaz6oa1-GLIHC6kPqfQ9E\_gsZ81jXP07SdLhBQ41?i9iHyMrR8



Scale = 1:20.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL) 0.06	4-7	>999	240	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.25	Vert(CT) -0.06	4-7	>999	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT) -0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP					Weight: 19 lb	FT = 20%
	Code FBC2023/TP12014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	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=137(LC 12)  
 Max Uplift 3=85(LC 12), 2=-65(LC 12), 4=-34(LC 9)  
 Max Grav 3=130(LC 19), 2=288(LC 1), 4=91(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 85 lb uplift at joint 3, 65 lb uplift at joint 2 and 34 lb uplift at joint 4.

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

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

November 4, 2025

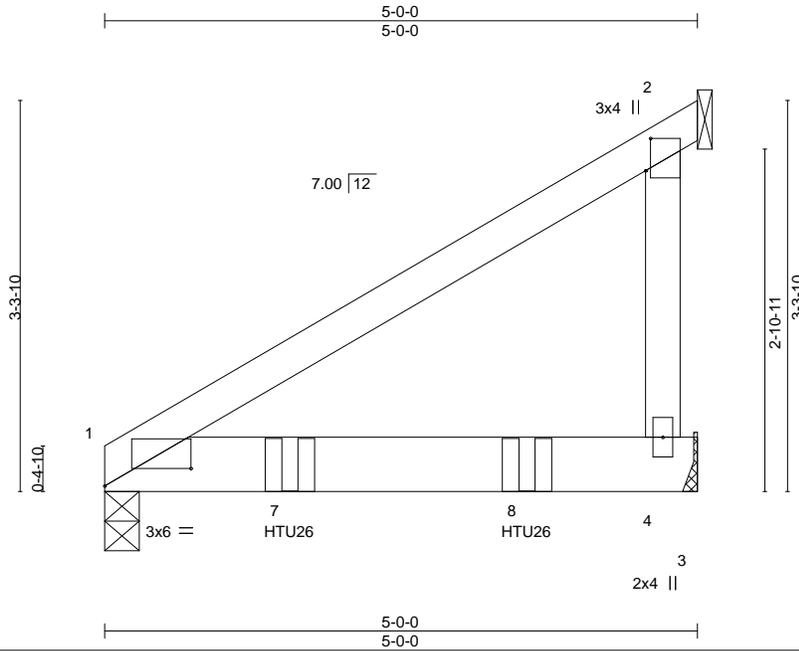
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TP1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
---	--

Job 4925663	Truss EJ06	Truss Type Jack-Open Girder	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067947
----------------	---------------	--------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:10 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-kXIFPR1byY0r8F27sYy4cZF1ZFQegEGfdiFjyMrR7



Scale = 1:19.3

Plate Offsets (X,Y)--	[1:0-8-12,0-1-12], [2:0-3-4,0-0-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.42	Vert(LL) -0.05 4-6 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.71	Vert(CT) -0.09 4-6 >624 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 24 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 1=0-3-8, 4=Mechanical, 2=Mechanical  
 Max Horz 1=106(LC 8)  
 Max Uplift 1=141(LC 5), 4=148(LC 5), 2=83(LC 8)  
 Max Grav 1=564(LC 1), 4=507(LC 1), 2=136(LC 1)

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

- 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 1, 148 lb uplift at joint 4 and 83 lb uplift at joint 2.
  - 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
  - 9) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-12 from the left end to 3-6-12 to connect truss(es) to front face of bottom chord.
  - 10) Fill all nail holes where hanger is in contact with lumber.
  - 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: 1-2=60, 1-3=20  
 Concentrated Loads (lb)  
 Vert: 7=412(F) 8=412(F)

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

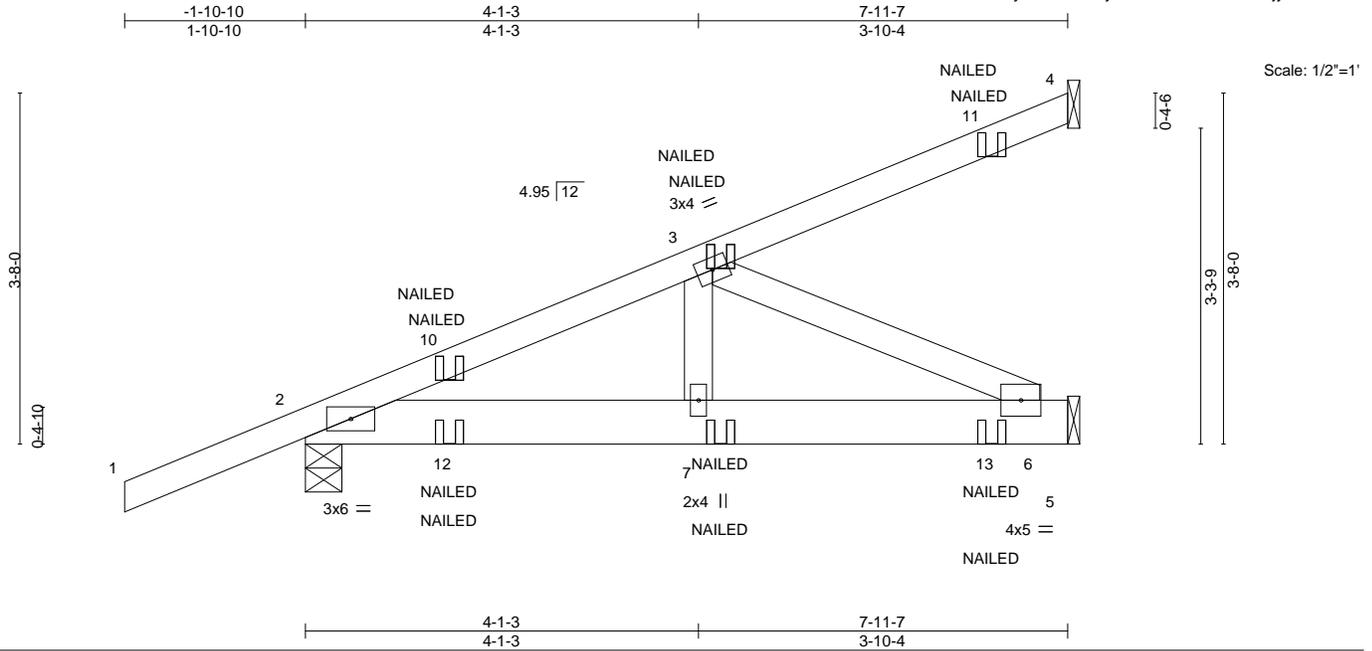
Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss HJ08	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SMITH RES.	T39067948
----------------	---------------	-----------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:10 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-kXlFPR1byY0r8F27sYy4cZGv1iOQcPEGfdiFjyMrR7



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	0.01 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.02 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.15	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 42 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 4=Mechanical, 2=0-4-9, 5=Mechanical  
 Max Horz 2=151(LC 8)  
 Max Uplift 4=-137(LC 8), 2=-231(LC 4), 5=-187(LC 8)  
 Max Grav 4=189(LC 1), 2=371(LC 1), 5=303(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-505/251  
 BOT CHORD 2-7=-295/411, 6-7=-295/411  
 WEBS 3-6=-455/327

- 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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Refer to girder(s) for truss to truss connections.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 4, 231 lb uplift at joint 2 and 187 lb uplift at joint 5.
  - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
 Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)  
 Vert: 7=-9(F=-4, B=-4) 10=116(F=58, B=58) 11=-123(F=-62, B=-62) 13=-79(F=-39, B=-39)

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.

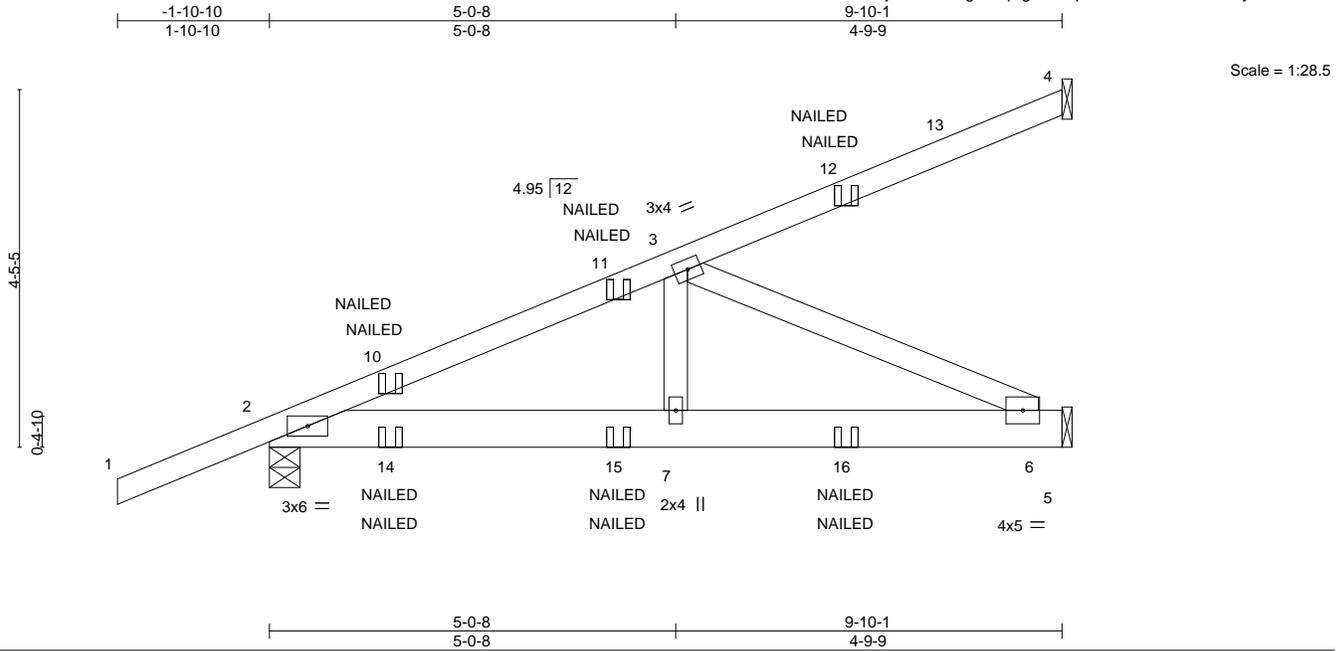
Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	SMITH RES.	T39067949
----------------	---------------	-----------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:11 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Djs2cnmFLGgtTHqEgZ3Bcq6PJQ1e90uNUJMFN9yMrR6



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	0.02 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.03 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.32	Horz(CT)	-0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 52 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 4=Mechanical, 2=0-4-9, 5=Mechanical  
 Max Horz 2=175(LC 8)  
 Max Uplift 4=-84(LC 8), 2=-254(LC 8), 5=-202(LC 8)  
 Max Grav 4=145(LC 1), 2=461(LC 1), 5=329(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-705/360  
 BOT CHORD 2-7=-422/591, 6-7=-422/591  
 WEBS 3-7=-103/291, 3-6=-651/465

- 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 84 lb uplift at joint 4, 254 lb uplift at joint 2 and 202 lb uplift at joint 5.
  - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)  
 Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)  
 Vert: 10=116(F=58, B=58) 12=-82(F=-41, B=-41) 15=-9(F=-4, B=-4) 16=-65(F=-33, B=-33)

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:

November 4, 2025

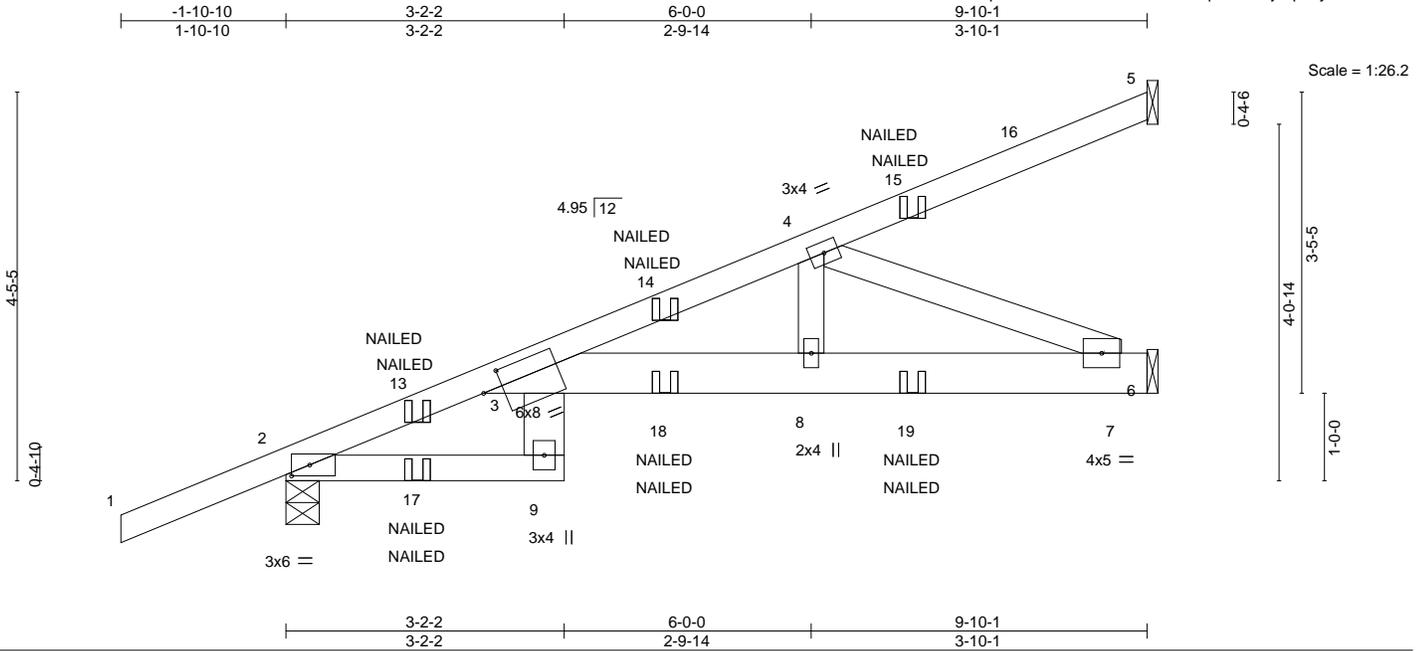
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss HJ10A	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067950
----------------	----------------	-----------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:12 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-hwQQq7nH6aok5RPREHaQ91eW7qe7uT5Xjz6pJbyMrR5



Scale = 1:26.2

Plate Offsets (X, Y)--	[2:0-2-8,0-1-8], [3:0-2-12,0-2-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) 0.25 9 >470 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.30 9 >389 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.33	Horz(CT) 0.14 6 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 50 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 2-9: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 5=Mechanical, 2=0-4-9, 6=Mechanical  
 Max Horz 2=175(LC 8)  
 Max Uplift 5=50(LC 8), 2=226(LC 8), 6=184(LC 8)  
 Max Grav 5=98(LC 1), 2=480(LC 1), 6=402(LC 38)

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

TOP CHORD	3-11=312/67, 3-4=1078/444
BOT CHORD	3-8=502/952, 7-8=506/959
WEBS	4-8=173/426, 4-7=1039/548

- 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 50 lb uplift at joint 5, 226 lb uplift at joint 2 and 184 lb uplift at joint 6.
  - 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=60, 3-5=60, 9-10=20, 3-6=20  
 Concentrated Loads (lb)  
 Vert: 13=116(F=58, B=58) 15=58(F=-29, B=-29) 18=35(F=-18, B=-18) 19=93(F=-47, B=-47)

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

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

November 4, 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®**

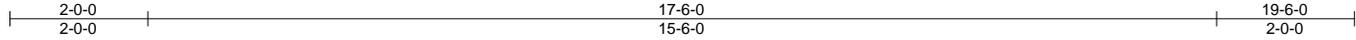
16023 Swingley Ridge Rd.  
 Chesterfield, MO 63017  
 314.434.1200 / MiTek-US.com

Job 4925663	Truss PB01	Truss Type GABLE	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067951
----------------	---------------	---------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:12 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-hwQQq7nH6aok5RPREHaQ91efVqO8uYYXjz6pJbyMrR5  
17-6-0 15-6-0 19-6-0 2-0-0



Scale = 1:33.3

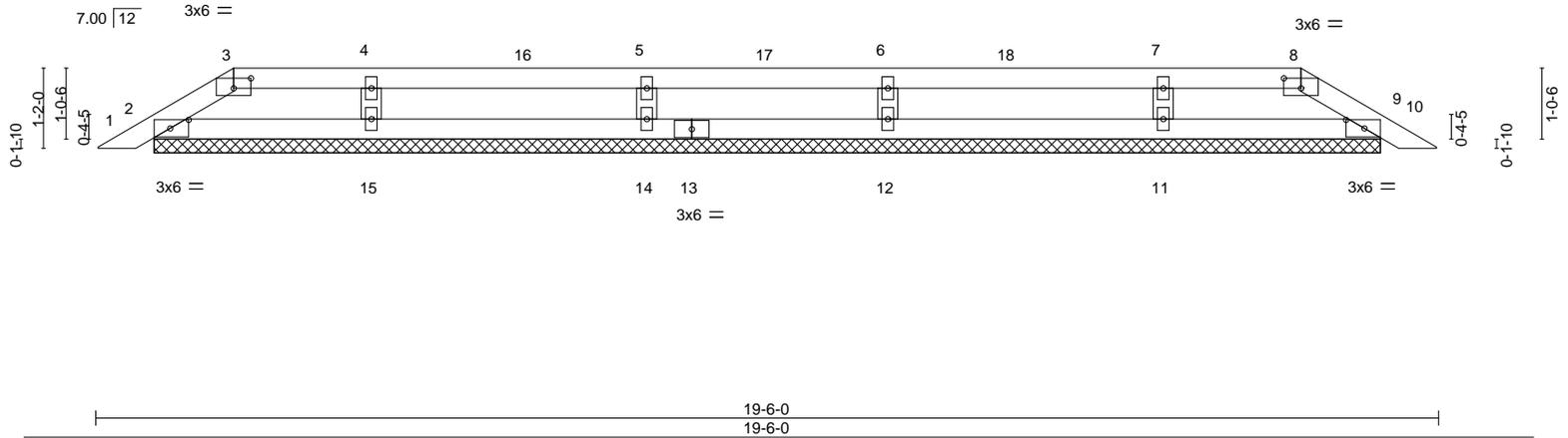


Plate Offsets (X,Y)--	[2:0-3-3,0-1-8], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-3-3,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.14	Vert(LL) 0.00 9 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S		Weight: 59 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=25(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 15, 14, 9  
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=304(LC 26), 12=301(LC 25), 15=304(LC 25), 14=301(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 0-3-11 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 17-6-0, Zone3 17-6-0 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable requires continuous bottom chord bearing.
  - 8) Gable studs spaced at 4-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 12, 15, 14, 9.
  - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4,2025

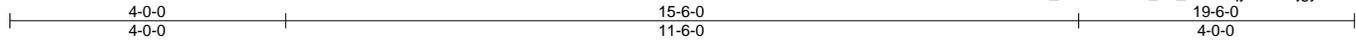
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss PB02	Truss Type GABLE	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067952
----------------	---------------	---------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:13 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-96\_o1Tnwtxbib\_do\_5fhFBqyEkPd?jgydrMr2yMrR4



Scale = 1:33.3

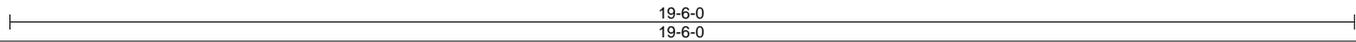
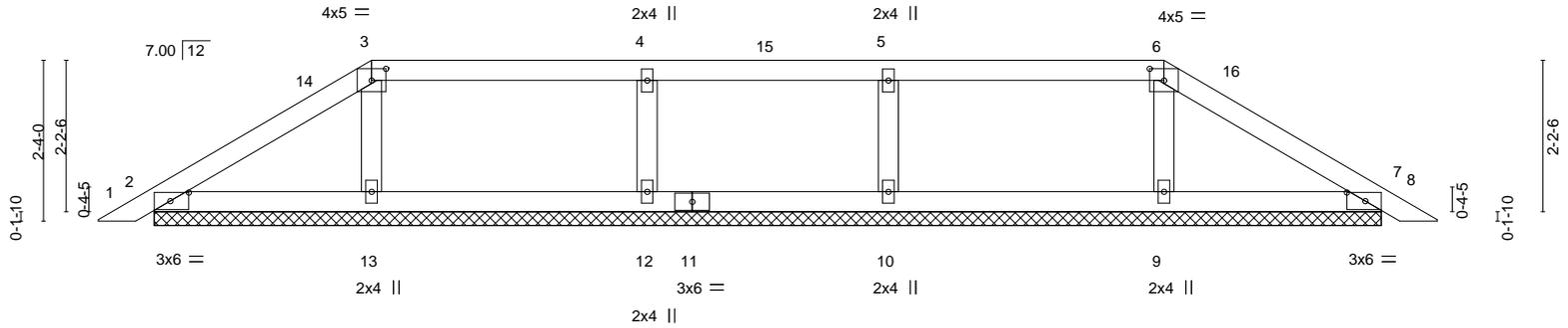


Plate Offsets (X,Y)--	[2:0-3-3,0-1-8], [3:0-2-8,0-2-1], [6:0-2-8,0-2-1], [7:0-3-3,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFLL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.16	Vert(LL) 0.00 8 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT) 0.00 8 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S		Weight: 67 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=54(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 9, 13, 7 except 10=-101(LC 9), 12=-101(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 9=292(LC 26), 10=313(LC 25), 13=292(LC 25), 12=313(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 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-0-0, Zone2 4-0-0 to 8-0-0, Zone1 8-0-0 to 15-6-0, Zone3 15-6-0 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 4-0-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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, 9, 13, 7 except (jt=lb) 10=101, 12=101.
  - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

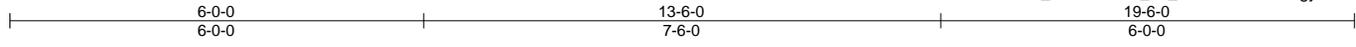
Job 4925663	Truss PB03	Truss Type GABLE	Qty 1	Ply 1	SMITH RES.	T39067953
----------------	---------------	---------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:13 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-96\_o1Tnwtxbib\_do\_5fhFBrWEKld?egydrMr2yMrR4

Job Reference (optional)



Scale = 1:33.3

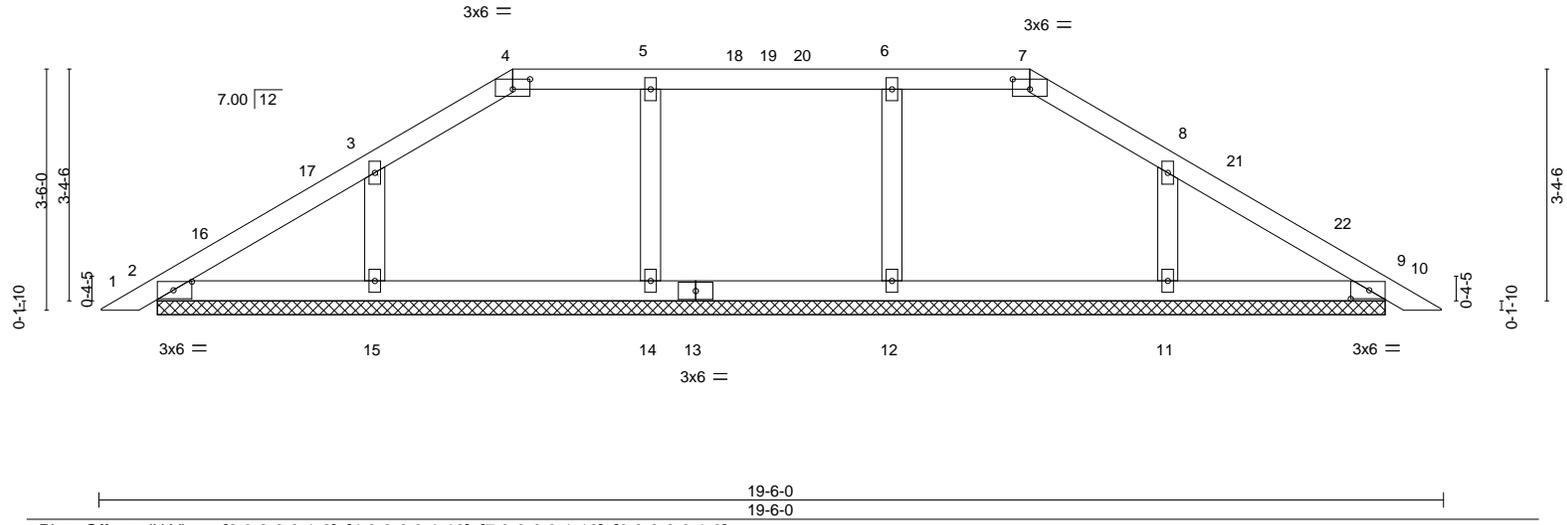


Plate Offsets (X, Y)--	[2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFLL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) 0.00 10 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT) 0.00 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 9 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S			
				Weight: 71 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=83(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=123(LC 13), 15=125(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=298(LC 20), 12=279(LC 26), 15=301(LC 19), 14=279(LC 25)

**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 0-3-11 to 3-3-11, Zone1 3-3-11 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0, Zone2 13-6-0 to 17-8-15, Zone1 17-8-15 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 14, 9 except (jt=lb) 11=123, 15=125.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss PB04	Truss Type GABLE	Qty 1	Ply 1	SMITH RES.	T39067954
----------------	---------------	---------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:14 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-dlYAFpoYeB3SKIZpMicuESk?Xe4TMRUpAHbwOUyMrR3

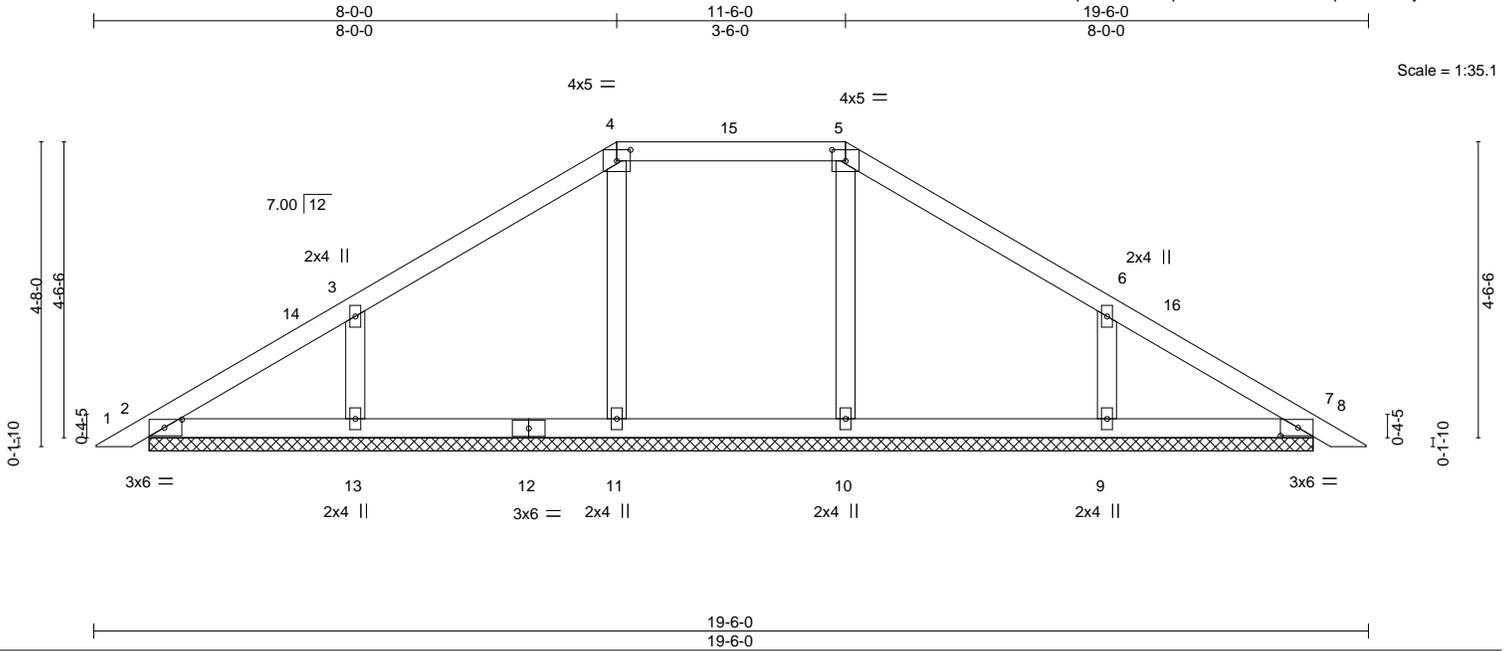


Plate Offsets (X, Y)-- [2:0-3-3,0-1-8], [4:0-2-8,0-2-1], [5:0-2-8,0-2-1], [7:0-3-3,0-1-8]

LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.12	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code FBC2023/TPI2014						Weight: 76 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=-111(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 11, 7 except 9=-161(LC 13), 13=-161(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 7 except 9=410(LC 20), 10=331(LC 28), 13=410(LC 19), 11=331(LC 27)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 6-9=-270/181, 3-13=-271/181

- 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 0-3-11 to 3-3-11, Zone1 3-3-11 to 8-0-0, Zone3 8-0-0 to 11-6-0, Zone2 11-6-0 to 15-6-0, Zone1 15-6-0 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
  - 6) Gable requires continuous bottom chord bearing.
  - 7) Gable studs spaced at 4-0-0 oc.
  - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 11, 7 except (jt=lb) 9=161, 13=161.
  - 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss PB05	Truss Type Piggyback	Qty 1	Ply 1	SMITH RES. T39067955
----------------	---------------	-------------------------	----------	----------	-------------------------

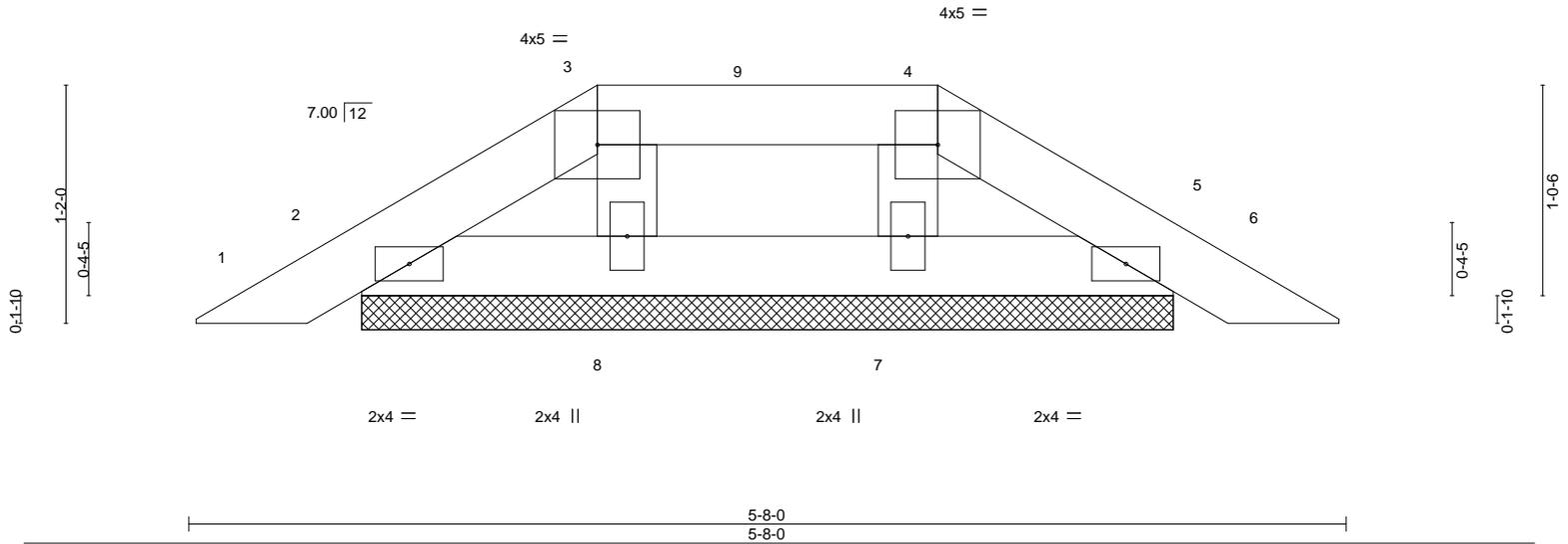
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:15 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-5U6YS9pAPVBJyv8?vP77ngGCE2RK5vzPxKTwwyMrR2

5-8-0  
5-8-0

Scale = 1:11.2



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 0.04	Vert(LL)	-0.00	5	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-P					Weight: 17 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 5-8-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** All bearings 3-11-11.  
(lb) - Max Horz 2=-25(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7  
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

**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) 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) Gable requires continuous bottom chord bearing.
- 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) 2, 5, 8, 7.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

November 4, 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/TP11 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 4925663	Truss PB06	Truss Type Piggyback	Qty 6	Ply 1	SMITH RES. Job Reference (optional)	T39067956
----------------	---------------	-------------------------	----------	----------	--	-----------

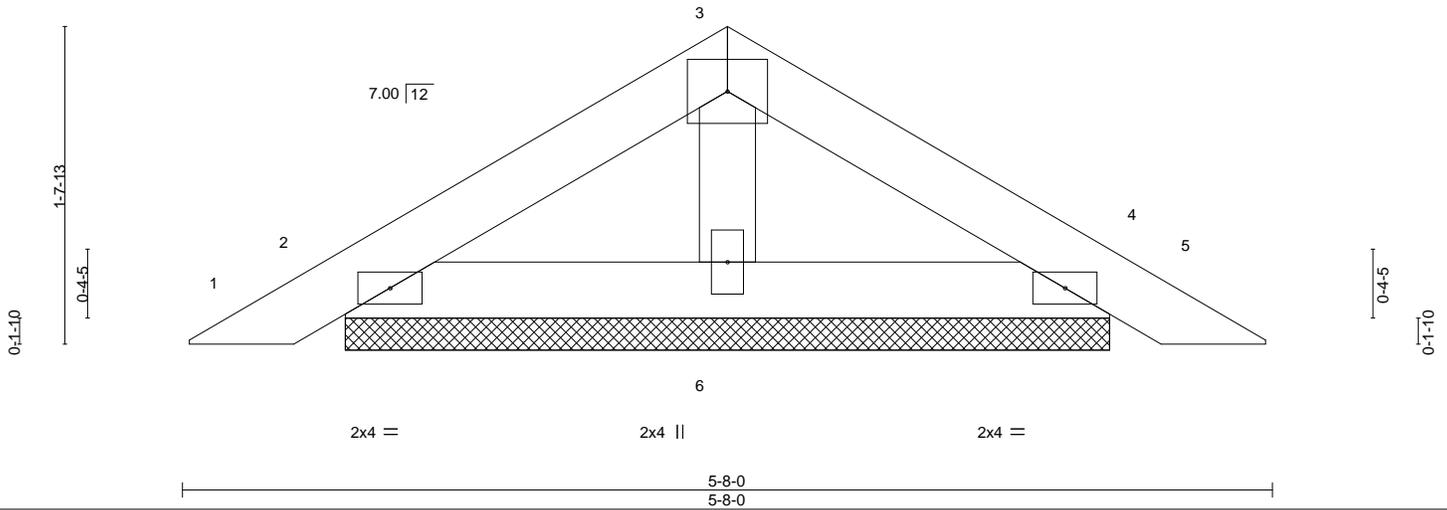
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:15 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-5U6Y9pAPVBjyv8?vp77ngGBm2Rw5vZzPxKTwwyMrR2



4x5 =

Scale: 1"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.07	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	FBC2023/TP12014	Matrix-P					Weight: 17 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied or 5-8-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 2=3-11-11, 4=3-11-11, 6=3-11-11  
 Max Horz 2=36(LC 11)  
 Max Uplift 2=-44(LC 12), 4=-48(LC 13), 6=-15(LC 12)  
 Max Grav 2=119(LC 1), 4=119(LC 1), 6=144(LC 1)

**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) 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) Gable requires continuous bottom chord bearing.
- 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) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6334  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

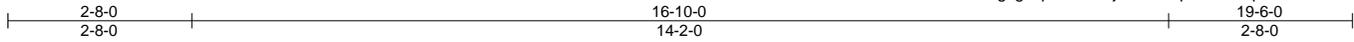
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TP11 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss PB07	Truss Type GABLE	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067957
----------------	---------------	---------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:16 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZhgXgVqoAoJAZ3jCT6fMJtpLORm5qMW6eb40SNyMrR1  
16-10-0 14-2-0 19-6-0 2-8-0



Scale = 1:33.3

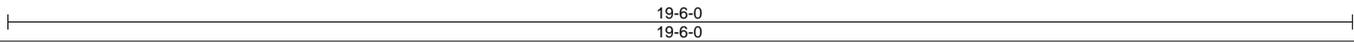
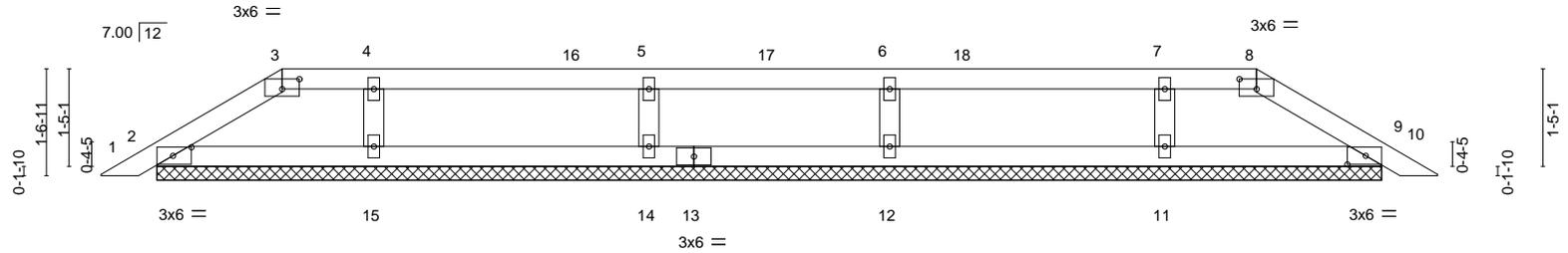


Plate Offsets (X,Y)-- [2:0-3-3,0-1-8], [3:0-3-0,0-1-12], [8:0-3-0,0-1-12], [9:0-3-3,0-1-8]

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 0.14	Vert(LL)	0.00	10	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	9	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
								Weight: 62 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=35(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 15, 14, 9  
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=309(LC 26), 12=304(LC 25), 15=309(LC 25), 14=304(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 0-3-11 to 2-8-0, Zone2 2-8-0 to 6-10-15, Zone1 6-10-15 to 16-10-0, Zone3 16-10-0 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
  - 6) All plates are 2x4 MT20 unless otherwise indicated.
  - 7) Gable requires continuous bottom chord bearing.
  - 8) Gable studs spaced at 4-0-0 oc.
  - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 10) \* 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.
  - 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 12, 15, 14, 9.
  - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

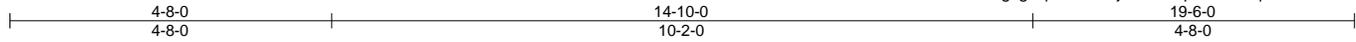
Job 4925663	Truss PB08	Truss Type GABLE	Qty 1	Ply 1	SMITH RES.	T39067958
----------------	---------------	---------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:16 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZhgXgVqoAoJAZ3jCT6fMjtpLWRm5qMS6eb40SNyMrR1

Job Reference (optional)



Scale = 1:33.3

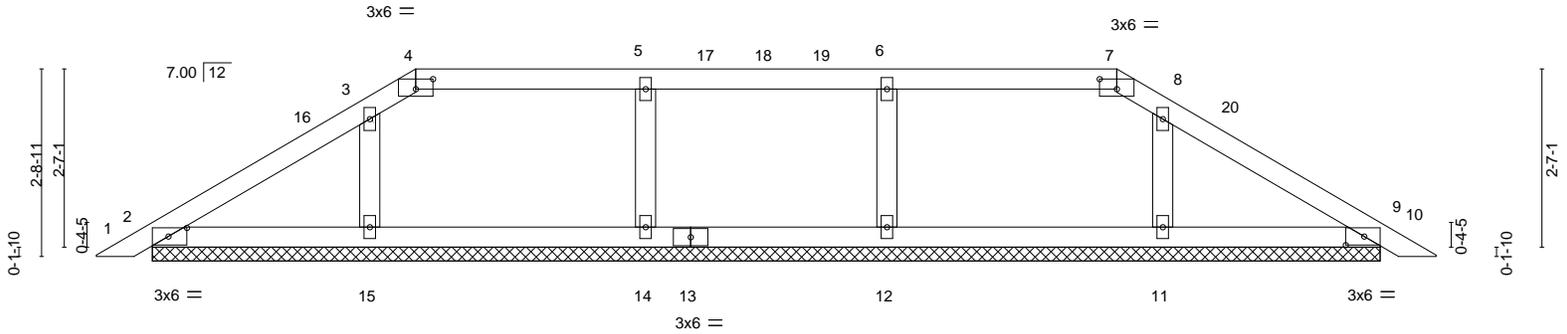


Plate Offsets (X,Y)--	[2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFLL	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S							

Weight: 68 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=63(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=105(LC 13), 15=111(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=287(LC 1), 12=300(LC 25), 15=287(LC 1), 14=300(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 0-3-11 to 3-3-11, Zone1 3-3-11 to 4-8-0, Zone2 4-8-0 to 8-10-15, Zone1 8-10-15 to 14-10-0, Zone3 14-10-0 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 14, 9 except (jt=lb) 11=105, 15=111.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

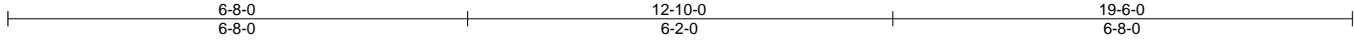
Job 4925663	Truss PB09	Truss Type GABLE	Qty 1	Ply 1	SMITH RES.	T39067959
----------------	---------------	---------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:17 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-1tDjtrqQx6R1BCIO1qAbs5MwKr6HZpVgtFpa\_pyMrR0

Job Reference (optional)



Scale = 1:33.3

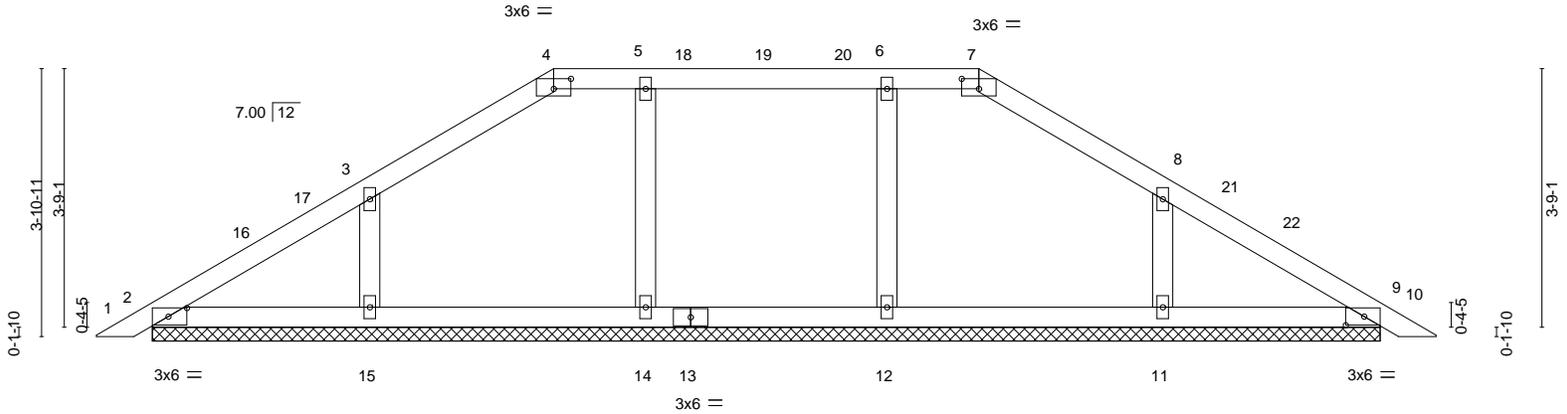


Plate Offsets (X,Y)--	[2:0-3-3,0-1-8], [4:0-3-0,0-1-12], [7:0-3-0,0-1-12], [9:0-3-3,0-1-8]
-----------------------	--

LOADING (psf)	SPACING-	CSi.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.13	Vert(LL) 0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT) 0.00	10	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S						

Weight: 73 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 17-9-11.  
 (lb) - Max Horz 2=92(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 14, 9 except 11=133(LC 13), 15=135(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 9 except 11=315(LC 20), 12=284(LC 26), 15=317(LC 19), 14=284(LC 25)

**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 0-3-11 to 3-3-11, Zone1 3-3-11 to 6-8-0, Zone2 6-8-0 to 10-10-15, Zone1 10-10-15 to 12-10-0, Zone2 12-10-0 to 17-0-15, Zone1 17-0-15 to 19-2-5 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 14, 9 except (jt=lb) 11=133, 15=135.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

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

November 4, 2025

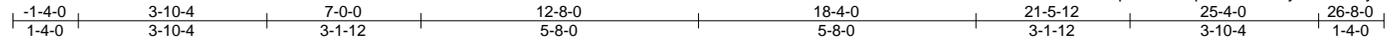
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067960
4925663	T01	Hip Girder	1	1		

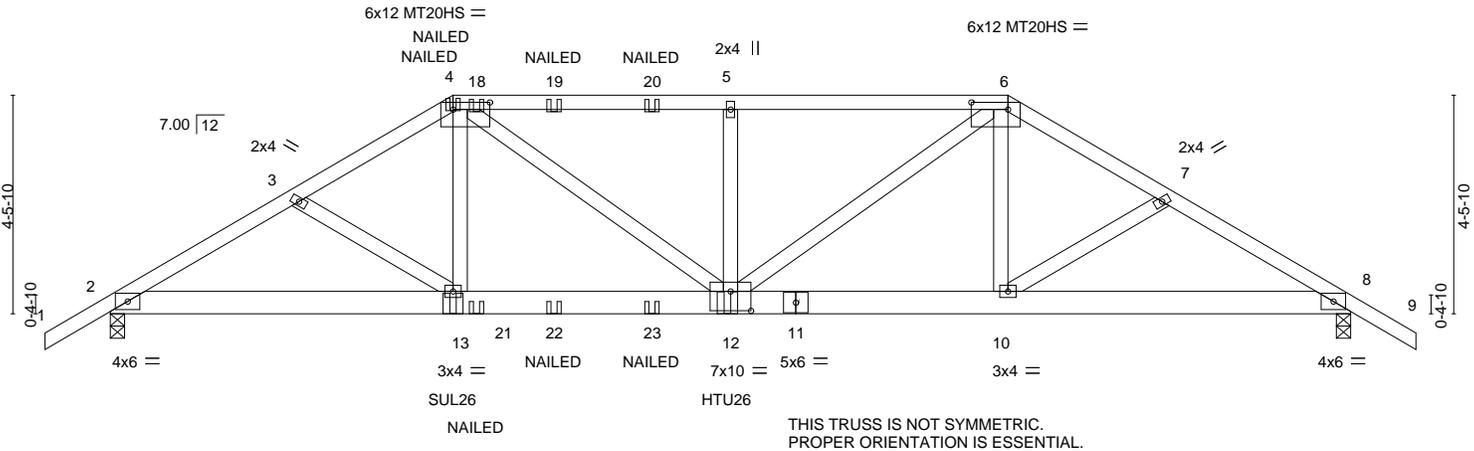
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:18 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-V3nh4Br2iQZupMsabXhqOluYtFGFI4yP5vZ7XFyMrR?



Scale = 1:46.8



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.77	Vert(LL) -0.16 12-13 >999 240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.81	Vert(CT) -0.32 12-13 >965 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.09 8 n/a n/a		
	Code FBC2023/TPI2014			Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins.
4-6: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 6-6-5 oc bracing.
BOT CHORD 2x6 SP No.2	
WEBS 2x4 SP No.3	

REACTIONS.
(size) 2=0-3-8, 8=0-3-8
Max Horz 2=-121(LC 27)
Max Uplift 2=-828(LC 8), 8=-669(LC 9)
Max Grav 2=2371(LC 1), 8=2058(LC 1)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4227/1494, 3-4=-4059/1462, 4-5=-4601/1591, 5-6=-4601/1591, 6-7=-3428/1140, 7-8=-3609/1189
BOT CHORD 2-13=-1287/3605, 12-13=-1243/3506, 10-12=-831/2923, 8-10=-946/3078
WEBS 3-13=-254/196, 4-13=-259/782, 4-12=-404/1401, 5-12=-550/309, 6-12=-841/2136, 6-10=-46/332

- 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; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=828, 8=669.
  - 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.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 12-7-4 from the left end to connect truss(es) to front face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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

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

November 4, 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 ANSITPI 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 4925663	Truss T01	Truss Type Hip Girder	Qty 1	Ply 1	SMITH RES.  Job Reference (optional)	T39067960
----------------	--------------	--------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:18 2025 Page 2  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-V3nh4Br2iQZupMsabXhqOluYtFGFI4yP5vZ7XFyMrR?

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-60(F) 13=-301(F) 12=-1312(F) 18=-122(F) 19=-122(F) 20=-122(F) 21=-68(F) 22=-68(F) 23=-68(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/TPI1 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))

**MiTek®**

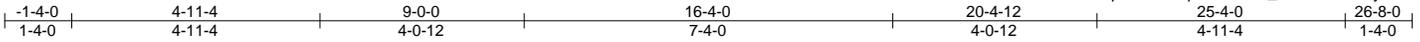
16023 Swingley Ridge Rd.  
Chesterfield, MO 63017  
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067961
4925663	T02	Hip	1	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:18 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-V3nh4Br2iQZupMsabXhqOluWHFH\_IEAP5vZ7XFyMrR?



Scale = 1:45.6

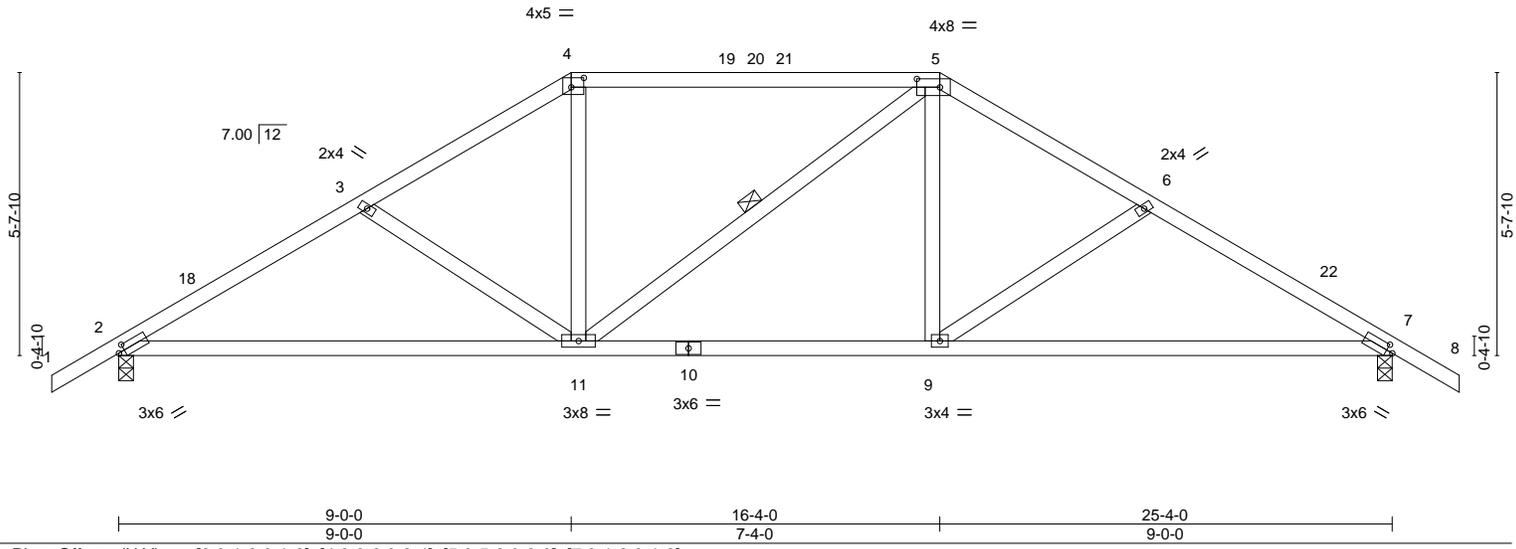


Plate Offsets (X,Y)-- [2:0-1-8,0-1-8], [4:0-3-0,0-2-4], [5:0-5-8,0-2-0], [7:0-1-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.72	Vert(LL) -0.15 9-17 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.16	Vert(CT) -0.32 9-17 >945 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.05 7 n/a n/a		
	Code FBC2023/TPI2014			Weight: 127 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-10-6 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-11

**REACTIONS.** (size) 2=0-3-8, 7=0-3-8  
 Max Horz 2=-150(LC 10)  
 Max Uplift 2=-278(LC 12), 7=-278(LC 13)  
 Max Grav 2=1093(LC 1), 7=1093(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1608/400, 3-4=-1370/338, 4-5=-1138/330, 5-6=-1370/338, 6-7=-1608/400  
 BOT CHORD 2-11=-354/1353, 9-11=-137/1138, 7-9=-253/1353  
 WEBS 3-11=-313/182, 4-11=-43/401, 5-9=-56/401, 6-9=-314/182

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 16-4-0, Zone2 16-4-0 to 20-6-6, Zone1 20-6-6 to 26-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 7=278.

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

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

November 4, 2025

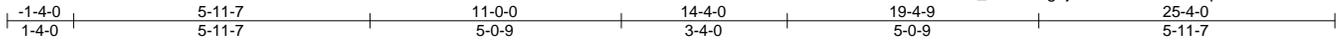
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T03	Truss Type Hip	Qty 1	Ply 1	SMITH RES.	T39067962
----------------	--------------	-------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:19 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1\_GL3IWsgTjhlQWRn8FC3xWRpLf11e?YKZlh3hyMrR\_



Scale = 1:46.1

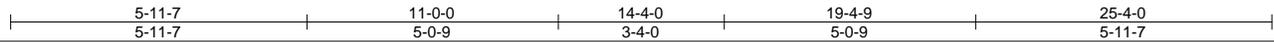
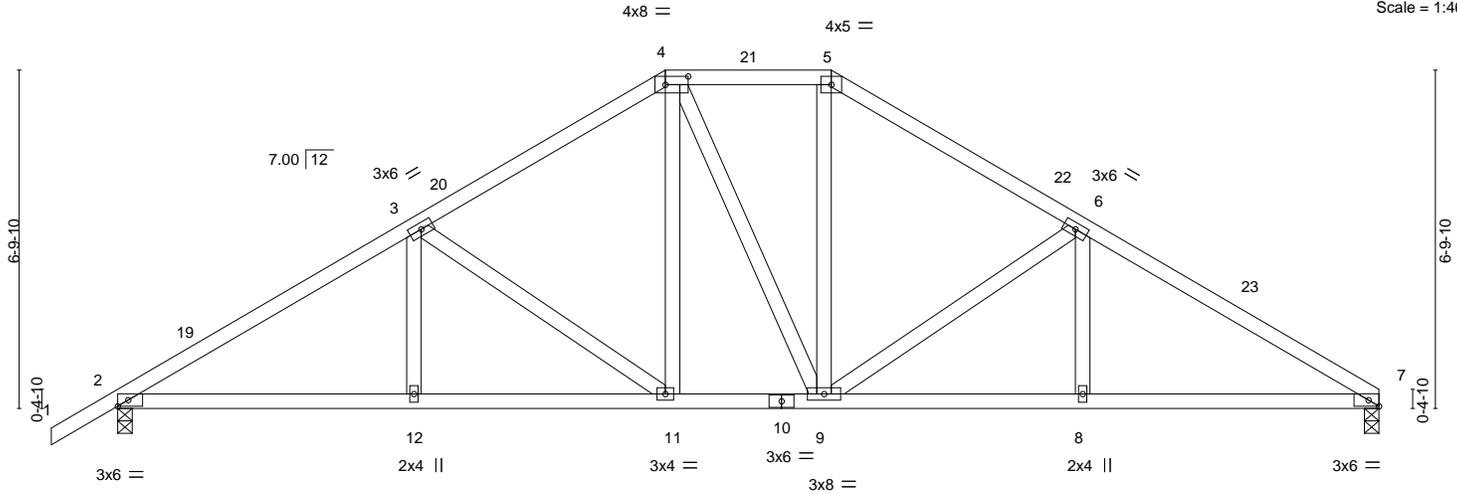


Plate Offsets (X,Y)--	[4:0-5-8,0-2-0], [7:0-2-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	Vert(LL) -0.05 11 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.48	Vert(CT) -0.11 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.05 7 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 139 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-9-11 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8  
 Max Horz 2=172(LC 9)  
 Max Uplift 7=-239(LC 13), 2=-274(LC 12)  
 Max Grav 7=1011(LC 1), 2=1095(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1644/371, 3-4=-1212/306, 4-5=-978/306, 5-6=-1214/308, 6-7=-1655/380  
 BOT CHORD 2-12=-351/1354, 11-12=-351/1354, 9-11=-165/976, 8-9=-252/1366, 7-8=-252/1366  
 WEBS 3-11=-499/228, 4-11=-101/353, 5-9=-91/354, 6-9=-512/236

**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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 11-0-0, Zone3 11-0-0 to 14-4-0, Zone2 14-4-0 to 18-6-15, Zone1 18-6-15 to 25-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=239, 2=274.

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:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--



Job 4925663	Truss T05	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067964
----------------	--------------	------------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:20 2025 Page 1  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-SSvRVstJE1pc2g0ziyIUj\_uN3vYmygiZD2Ea8yMrQz

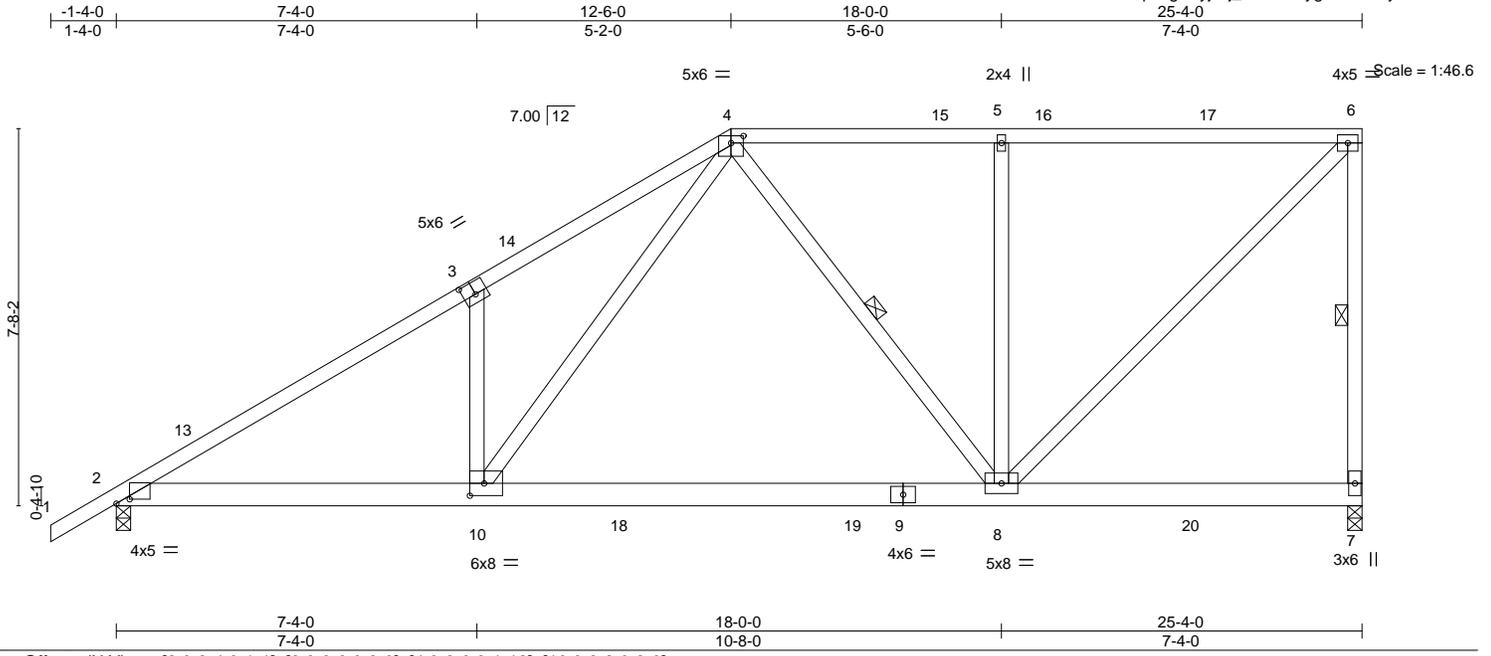


Plate Offsets (X,Y)--	[2:0-3-4,0-1-1], [3:0-3-0,0-3-0], [4:0-3-0,0-1-12], [10:0-3-8,0-3-0]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.72	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.97	Vert(LL) -0.21 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Vert(CT) -0.42 8-10 >711 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 7 n/a n/a		
	Code FBC2023/TPI2014			Weight: 169 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins, except end verticals.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26 *Except* 7-9: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 4-8

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8  
 Max Horz 2=308(LC 12)  
 Max Uplift 7=-373(LC 9), 2=-381(LC 12)  
 Max Grav 7=1433(LC 2), 2=1527(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2528/596, 3-4=-2560/751, 4-5=-1184/334, 5-6=-1184/334, 6-7=-1349/400  
 BOT CHORD 2-10=-696/2164, 8-10=-432/1278  
 WEBS 3-10=-406/275, 4-10=-446/1516, 5-8=-452/232, 6-8=-474/1672

- 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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 12-6-0, Zone2 12-6-0 to 16-8-15, Zone1 16-8-15 to 25-2-4 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=373, 2=381.
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-60, 4-6=-60, 2-10=-20, 8-10=-80(F=-60), 7-8=-20

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T06	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067965
----------------	--------------	------------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:20 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-SSvRVstJE1pc2g0zizyUj\_xl3\_Tm3XiZD2Ea8yMrQz

Job Reference (optional)

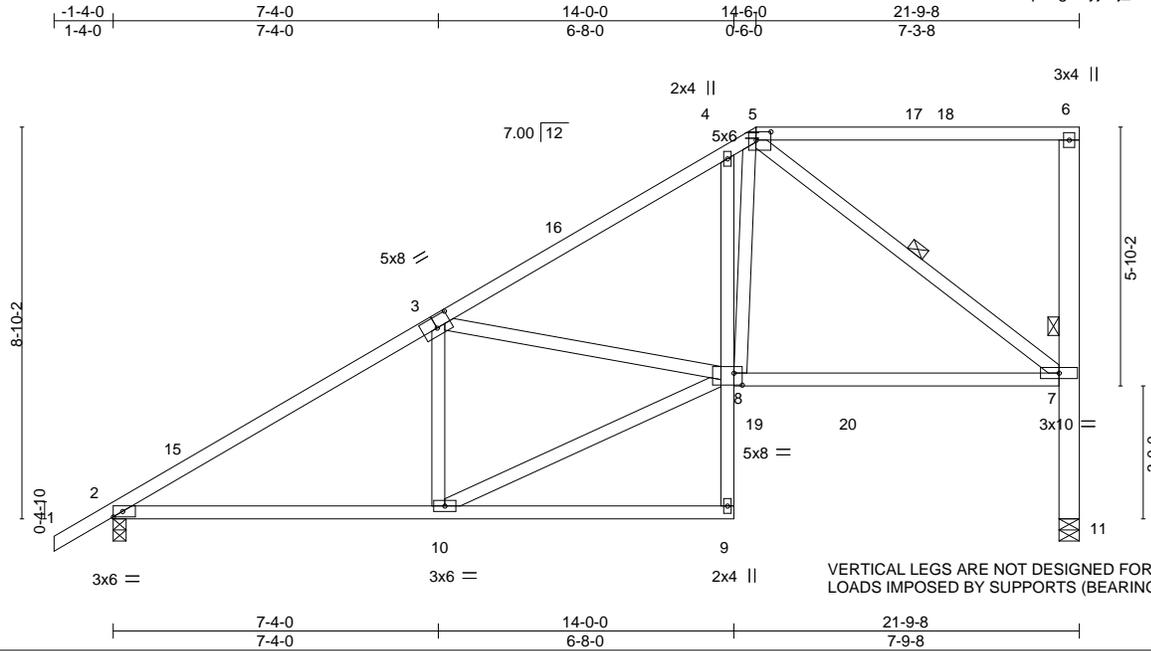


Plate Offsets (X, Y)--	[3:0-4-0,0-3-0], [5:0-4-0,0-2-4], [8:0-2-4,0-3-4]
------------------------	---

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 0.57	Vert(LL)	-0.15	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.28	7-8	>920		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.08	11	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 4-9: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 6-11: 2x6 SP No.2	WEBS 1 Row at midpt 6-11, 5-7

**REACTIONS.** (size) 2=0-3-8, 11=0-5-8  
 Max Horz 2=353(LC 12)  
 Max Uplift 2=225(LC 12), 11=271(LC 12)  
 Max Grav 2=1062(LC 19), 11=937(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1440/260, 3-4=-1199/325, 4-5=-1171/410, 7-11=-937/271  
 BOT CHORD 2-10=-460/1249, 4-8=-269/179, 7-8=-302/845  
 WEBS 3-10=-302/236, 8-10=-499/1375, 3-8=-269/101, 5-8=-365/1147, 5-7=-1028/376

- 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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 14-6-0, Zone2 14-6-0 to 18-8-15, Zone1 18-8-15 to 21-6-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=225, 11=271.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T07	Truss Type Monopitch	Qty 4	Ply 1	SMITH RES. Job Reference (optional)	T39067966
----------------	--------------	-------------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:21 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-weTqjCtX?LxSgqb9GgEX0xW2zSKuVY8mntnn6ayMrQy

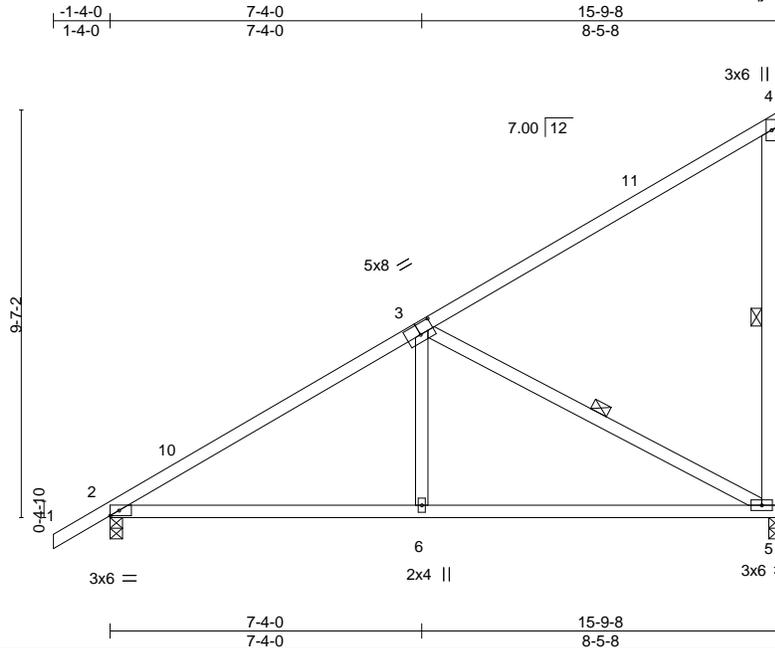


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	-0.11 5-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.22 5-6	>854	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.02 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 93 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
4-5: 2x6 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 4-5, 3-5

**REACTIONS.** (size) 2=0-3-8, 5=0-3-8  
Max Horz 2=376(LC 12)  
Max Uplift 2=-119(LC 12), 5=-290(LC 12)  
Max Grav 2=706(LC 1), 5=651(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-860/63  
BOT CHORD 2-6=-320/710, 5-6=-319/715  
WEBS 3-6=0/357, 3-5=-777/347

**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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 15-6-12 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=119, 5=290.

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

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

November 4,2025

**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	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067967
4925663	T08	Common	4	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:21 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-weTqjCtX?LxSgqb9GgEX0xW7oSO8Vcerntnn6ayMrQy



Scale = 1:27.3

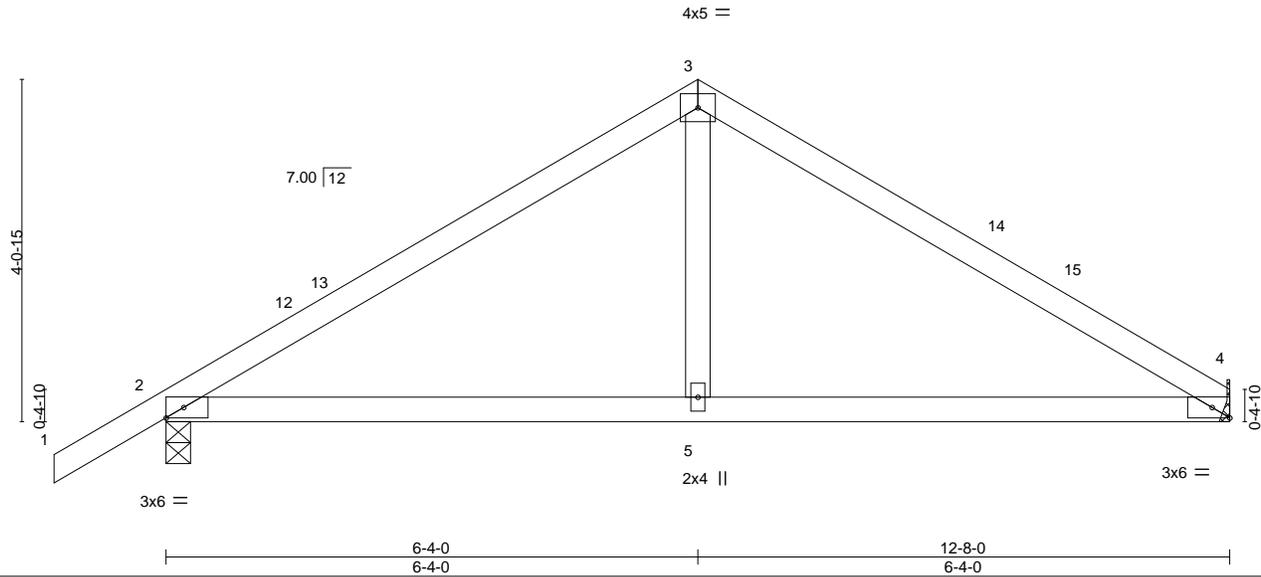


Plate Offsets (X,Y)--	[4:0-2-8,Edge]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	-0.06	5-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.11	5-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
								Weight: 49 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 4=Mechanical, 2=0-3-8  
 Max Horz 2=104(LC 9)  
 Max Uplift 4=117(LC 13), 2=153(LC 12)  
 Max Grav 4=502(LC 1), 2=591(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-656/211, 3-4=-654/222  
 BOT CHORD 2-5=-92/492, 4-5=-92/492  
 WEBS 3-5=-17/299

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-4-0, Zone2 6-4-0 to 10-6-15, Zone1 10-6-15 to 12-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=117, 2=153.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T08G	Truss Type Common Supported Gable	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067968
----------------	---------------	--------------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:22 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Or1CwYUzme3JH\_AMqNlmZ83OlscE43?0XXLf0yMrQx

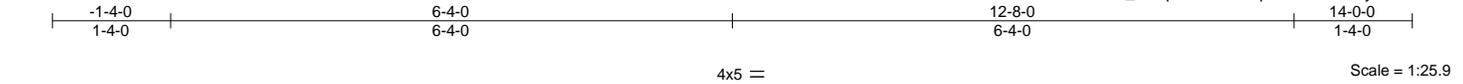


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [3:0-3-8,0-2-0], [7:0-3-8,0-2-0], [8:0-3-8,Edge]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/def L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.00 9 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.04	Vert(CT) -0.01 9 n/r 120		
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: 64 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 12-8-0.  
 (lb) - Max Horz 2=-102(LC 10)  
 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) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
  - 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

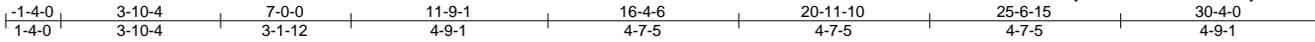
Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T09	Truss Type Half Hip Girder	Qty 1	Ply 1	SMITH RES.	T39067969
----------------	--------------	-------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:23 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-s1ba8uvBxyBAV7IYN5H?5McMEGyBzHc8FBGuBTyMrQw



Scale = 1:55.3

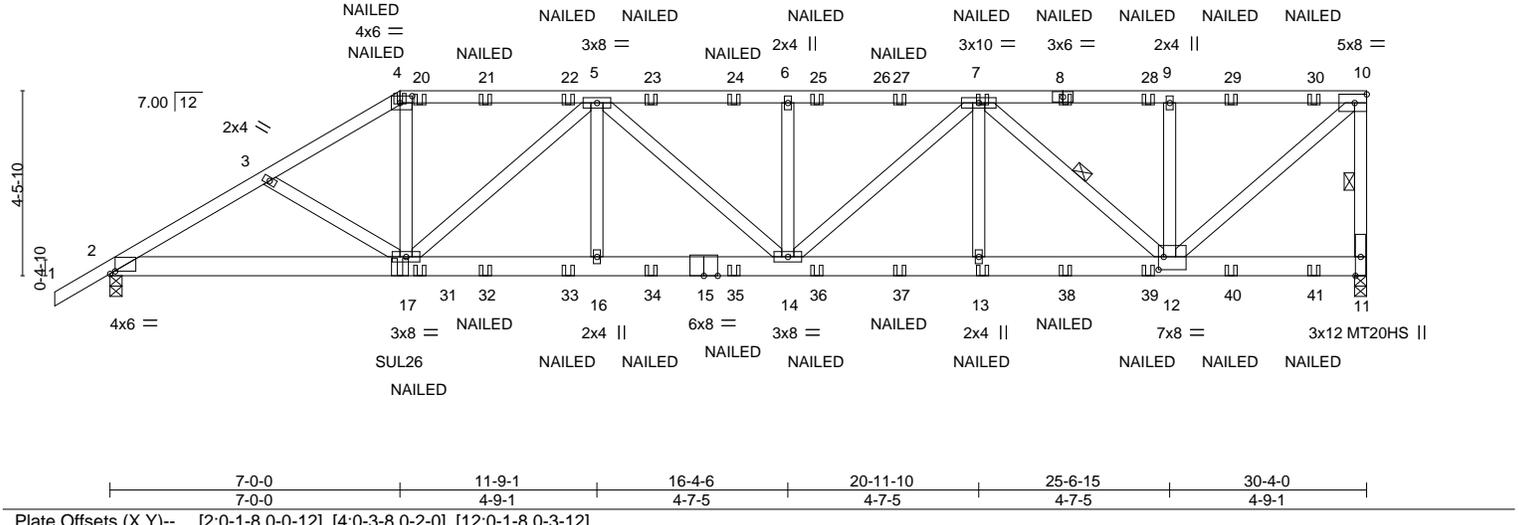


Plate Offsets (X,Y)-- [2:0-1-8,0-0-12], [4:0-3-8,0-2-0], [12:0-1-8,0-3-12]

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.94	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.91	Vert(LL) 0.27 14-16 >999 240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.98	Vert(CT) -0.46 14-16 >792 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.12 11 n/a n/a		
	Code FBC2023/TPI2014			Weight: 201 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-17,5-14,7-14,7-12,10-12: 2x4 SP No.2	WEBS 1 Row at midpt 10-11, 7-12

**REACTIONS.** (size) 11=0-3-8, 2=0-3-8  
 Max Horz 2=184(LC 8)  
 Max Uplift 11=1059(LC 5), 2=990(LC 8)  
 Max Grav 11=2655(LC 1), 2=2478(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-4427/1814, 3-4=-4249/1774, 4-5=-3698/1588, 5-6=-4979/2015, 6-7=-4979/2015,  
 7-9=-2614/1045, 9-10=-2614/1045, 10-11=-2529/1049  
 BOT CHORD 2-17=-1667/3779, 16-17=-1994/4834, 14-16=-1994/4834, 13-14=-1716/4262,  
 12-13=-1716/4262  
 WEBS 3-17=-251/185, 4-17=-616/1652, 5-17=-1558/632, 5-16=-9/387, 6-14=-536/310,  
 7-14=-445/959, 7-13=-8/393, 7-12=-2204/897, 9-12=-593/346, 10-12=-1377/3452

- 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; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1059, 2=990.
  - Use Simpson Strong-Tie SUL26 (6-16d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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:

November 4, 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.**

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)



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

Job 4925663	Truss T09	Truss Type Half Hip Girder	Qty 1	Ply 1	SMITH RES.  Job Reference (optional)	T39067969
----------------	--------------	-------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:23 2025 Page 2

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-s1ba8uvBXyBAv7IYN5H?5McMEGyBzHc8FBGuBTyMrQw

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 4=-60(F) 8=-122(F) 17=-301(F) 13=-68(F) 7=-122(F) 20=-122(F) 21=-122(F) 22=-122(F) 23=-122(F) 24=-122(F) 25=-122(F) 27=-122(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-68(F) 32=-68(F) 33=-68(F) 34=-68(F) 35=-68(F) 36=-68(F) 37=-68(F) 38=-68(F) 39=-68(F) 40=-68(F) 41=-68(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/TPI1 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))

**MiTek®**

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

Job 4925663	Truss T10	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067970
----------------	--------------	------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:23 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-s1ba8uvBxyBAv7iYN5H75McMpG\_CzMS8FBGuBTyMrQw



Scale = 1:53.3

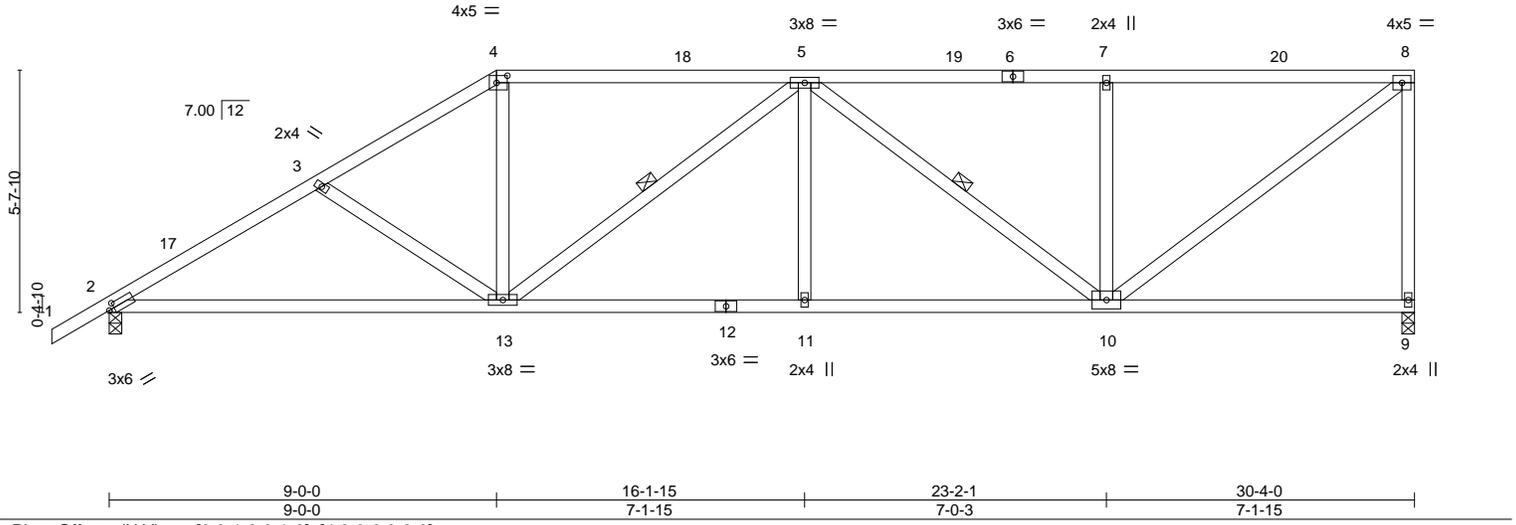


Plate Offsets (X,Y)--	[2:0-1-8,0-1-8], [4:0-3-0,0-2-0]
-----------------------	----------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.78	Vert(LL) -0.15 13-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.67	Vert(CT) -0.32 13-16 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
	Code FBC2023/TPI2014			Weight: 170 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-6 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-7-5 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-13, 5-10

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8  
 Max Horz 2=229(LC 12)  
 Max Uplift 9=353(LC 9), 2=350(LC 12)  
 Max Grav 9=1206(LC 1), 2=1289(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1991/539, 3-4=-1752/477, 4-5=-1470/453, 5-7=-1282/372, 7-8=-1282/372, 8-9=-1143/369  
 BOT CHORD 2-13=-601/1682, 11-13=-503/1755, 10-11=-503/1755  
 WEBS 3-13=-314/180, 4-13=-79/558, 5-13=-449/224, 5-11=0/256, 5-10=-595/255, 7-10=-447/226, 8-10=-458/1583

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-4-0 to 1-8-6, Zone1 1-8-6 to 9-0-0, Zone2 9-0-0 to 13-3-8, Zone1 13-3-8 to 30-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=353, 2=350.

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:

November 4, 2025

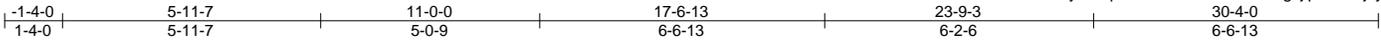
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T11	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067971
----------------	--------------	------------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:24 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-KD9yLEwplGJ1XHKkxooEeZ8dTgJjplUroSjvyMrQv



Scale = 1:52.8

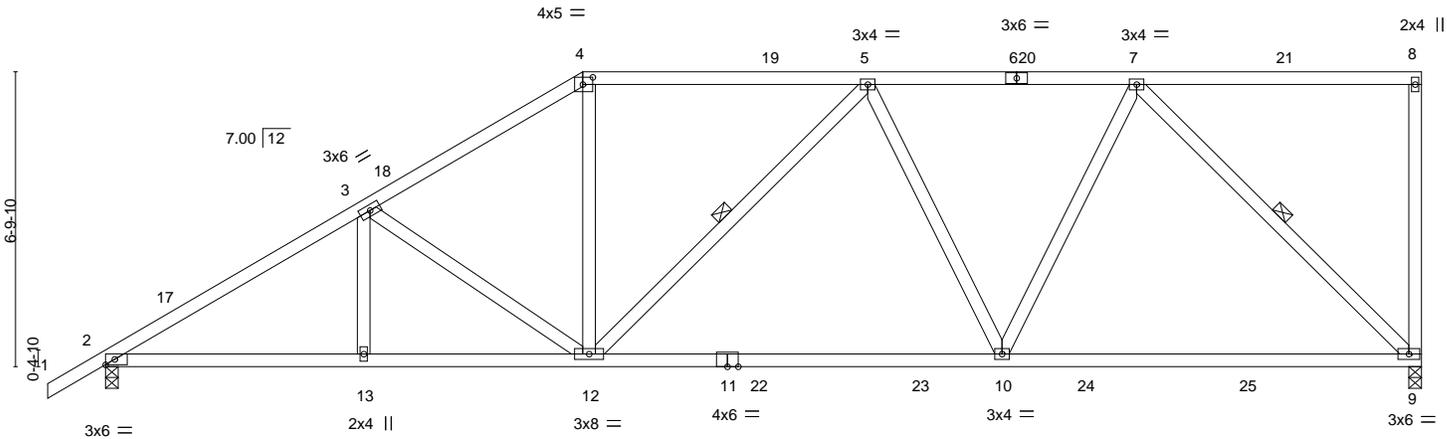


Plate Offsets (X,Y)--	[4:0-2,12,0-2-0]
-----------------------	------------------

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.52	Vert(LL) -0.27 9-10 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.47 9-10 >775 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT) 0.07 9 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			
				Weight: 174 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 9-11: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-5-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12, 7-9

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8  
 Max Horz 2=274(LC 12)  
 Max Uplift 9=-347(LC 9), 2=-347(LC 12)  
 Max Grav 9=1358(LC 2), 2=1386(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2183/512, 3-4=-1771/446, 4-5=-1481/429, 5-7=-1417/325  
 BOT CHORD 2-13=-613/1831, 12-13=-613/1831, 10-12=-412/1545, 9-10=-286/1071  
 WEBS 3-12=-537/224, 4-12=-63/598, 5-10=-376/236, 7-10=-164/805, 7-9=-1490/403

- 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 -1-4-0 to 1-8-6, Zone1 1-8-6 to 11-0-0, Zone2 11-0-0 to 15-3-8, Zone1 15-3-8 to 30-2-4 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) 9=347, 2=347.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

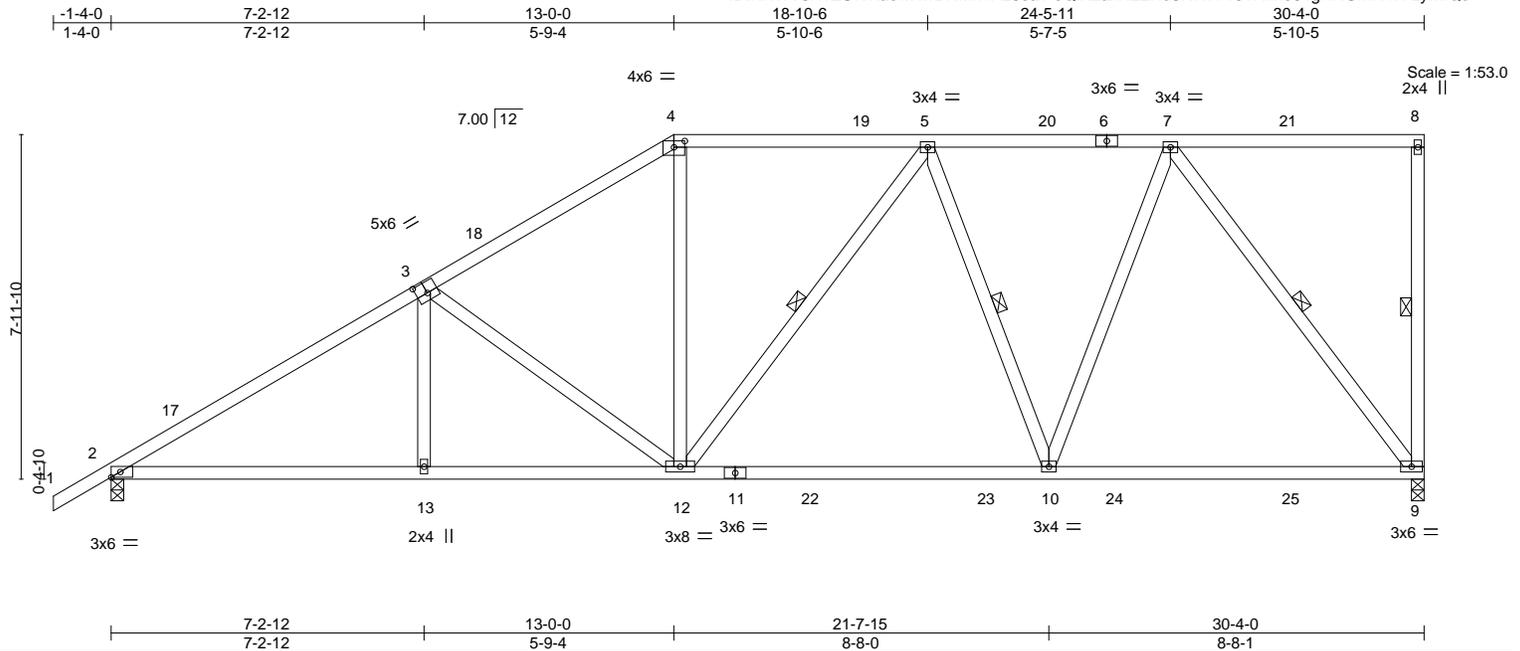
Job 4925663	Truss T12	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067972
----------------	--------------	------------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:25 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-oQikZaxR2ZRu8RvwVVJTAnho64gHRGIRiVl?FLyMrQu

Job Reference (optional)



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.74	Vert(LL) -0.20 9-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Vert(CT) -0.33 9-10 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
	Code FBC2023/TPI2014			Weight: 185 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
9-11: 2x4 SP No.1  
WEBS 2x4 SP No.3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-3-6 oc bracing.  
WEBS 1 Row at midpt 8-9, 5-12, 5-10, 7-9

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8  
Max Horz 2=319(LC 12)  
Max Uplift 9=340(LC 9), 2=341(LC 12)  
Max Grav 9=1369(LC 2), 2=1389(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2129/486, 3-4=-1609/412, 4-5=-1323/401, 5-7=-1128/266  
BOT CHORD 2-13=-620/1778, 12-13=-620/1778, 10-12=-353/1266, 9-10=-216/836  
WEBS 3-13=0/267, 3-12=-679/271, 4-12=-48/517, 5-10=-456/254, 7-10=-192/852,  
7-9=-1374/358

- 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 -1-4-0 to 1-8-6, Zone1 1-8-6 to 13-0-0, Zone2 13-0-0 to 17-3-8, Zone1 17-3-8 to 30-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=340, 2=341.

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:

November 4, 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 4925663	Truss T13	Truss Type Half Hip	Qty 1	Ply 1	SMITH RES.	T39067973
----------------	--------------	------------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:25 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-oQiKZaxR2ZRu8RvwVVJTAnhla4gHRBFRVI?FLyMrQu

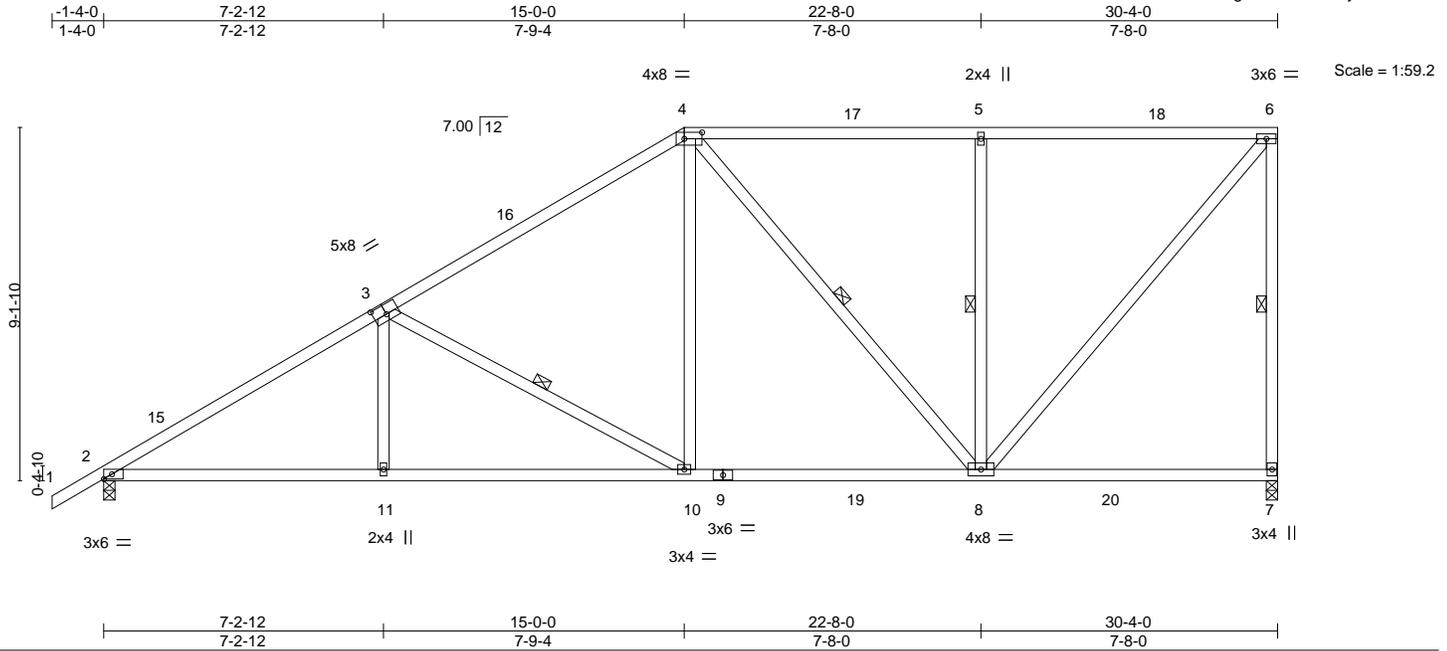


Plate Offsets (X, Y)--	[3:0-4-0,0-3-0], [4:0-5-8,0-2-0]
------------------------	----------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.15	7-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.74	Vert(CT)	-0.25	7-8	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014						Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-1-5 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-7, 3-10, 4-8, 5-8

**REACTIONS.** (size) 7=0-3-8, 2=0-3-8  
 Max Horz 2=364(LC 12)  
 Max Uplift 7=331(LC 9), 2=334(LC 12)  
 Max Grav 7=1377(LC 2), 2=1417(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-2148/478, 3-4=-1469/359, 4-5=-921/246, 5-6=-921/246, 6-7=-1222/349  
 BOT CHORD 2-11=-663/1866, 10-11=-663/1866, 8-10=-377/1185  
 WEBS 3-11=0/320, 3-10=-839/327, 4-10=-108/709, 4-8=-494/201, 5-8=-536/277, 6-8=-379/1400

- 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 -1-4-0 to 1-8-6, Zone1 1-8-6 to 15-0-0, Zone2 15-0-0 to 19-3-8, Zone1 19-3-8 to 30-2-4 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=331, 2=334.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T14	Truss Type Hip	Qty 1	Ply 1	SMITH RES.	T39067974
----------------	--------------	-------------------	----------	----------	------------	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:26 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-GcGjmw3ptZlmbU73Dqij\_EtwTyYAf7ax9VYooyMrQt

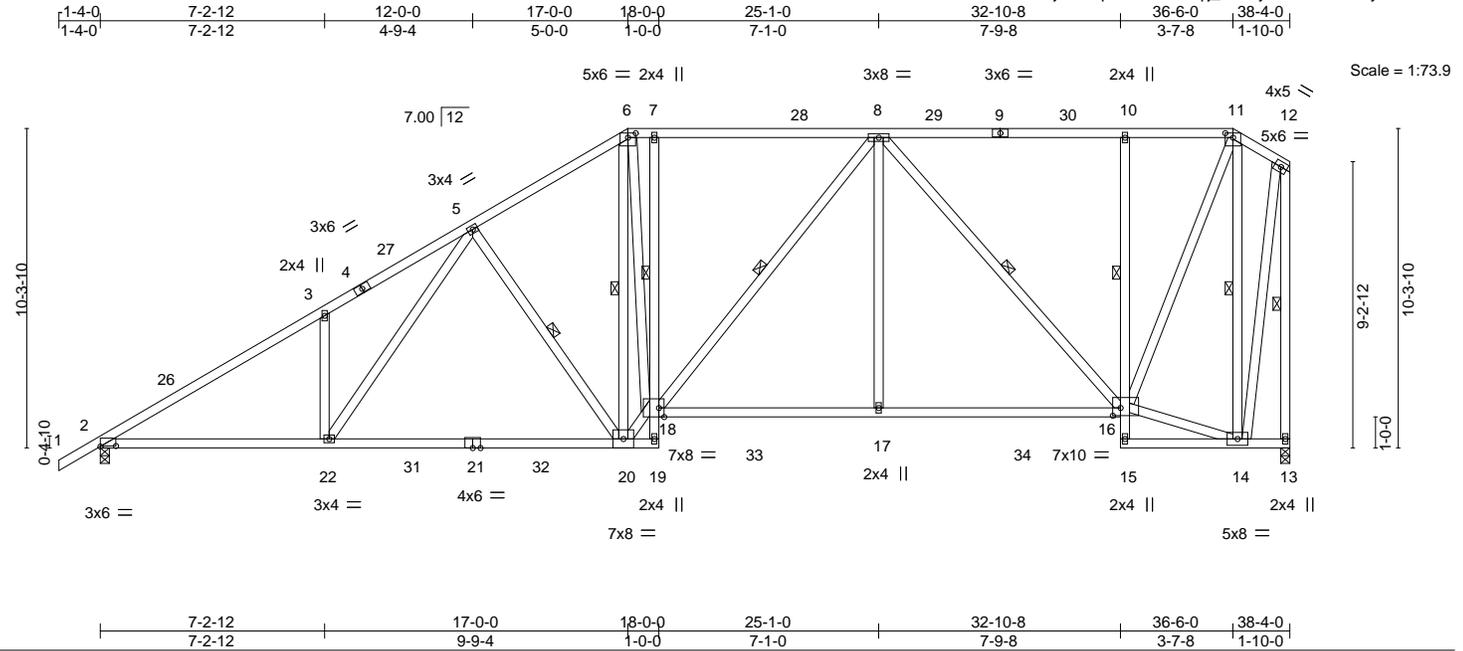


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [6:0-3-0,0-1-12], [11:0-3-0,0-1-12], [16:0-3-0,0-3-0], [18:0-2-0,Edge]
-----------------------	---

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 1.00	Vert(LL) -0.32 20-22 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.93	Vert(CT) -0.55 20-22 >837 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.17 13 n/a n/a		
	Code FBC2023/TPI2014			Weight: 317 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 7-19,10-15: 2x4 SP No.3, 19-21: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 1 Row at midpt 7-18, 10-16
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-20, 6-20, 8-18, 8-16, 11-14, 12-13

REACTIONS.
(size) 2=0-3-8, 13=0-3-8
Max Horz 2=387(LC 12)
Max Uplift 2=422(LC 12), 13=360(LC 9)
Max Grav 2=1787(LC 19), 13=1727(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2919/631, 3-5=-2901/788, 5-6=-2036/535, 6-7=-1844/555, 7-8=-1858/560, 8-10=-898/213, 10-11=-888/210, 11-12=-335/80, 12-13=-1674/350
BOT CHORD 2-22=-811/2491, 20-22=-655/2011, 18-19=-455/0, 7-18=-292/202, 17-18=-435/1747, 16-17=-435/1747, 10-16=-400/206
WEBS 3-22=-395/270, 5-22=-279/903, 5-20=-660/300, 6-20=-654/276, 18-20=-591/2373, 6-18=-471/1434, 8-18=-165/296, 8-17=0/491, 8-16=-1285/373, 14-16=-32/303, 11-16=-422/1701, 11-14=-1474/361, 12-14=-323/1468

- 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 -1-4-0 to 2-6-0, Zone1 2-6-0 to 17-0-0, Zone2 17-0-0 to 22-5-1, Zone1 22-5-1 to 36-6-0, Zone3 36-6-0 to 38-2-4 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) 2=422, 13=360.

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

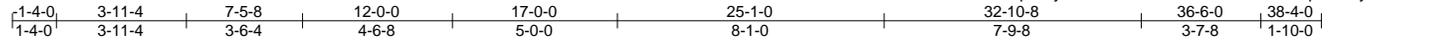
Philip J. O'Regan PE No.58126  
MiTek Inc. DBA MiTek USA FL Cert 6634  
16025 Swingley Ridge Rd. Chesterfield, MO 63017  
Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T15	Truss Type Piggyback Base	Qty 2	Ply 1	SMITH RES.	T39067975
----------------	--------------	------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:27 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-lq5zGyiaBhcOl2JcwLxGCm3xtLmvBakApF6KKeyMrQs



TOP CHORD UNDER PIGGYBACKS TO BE Laterally BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

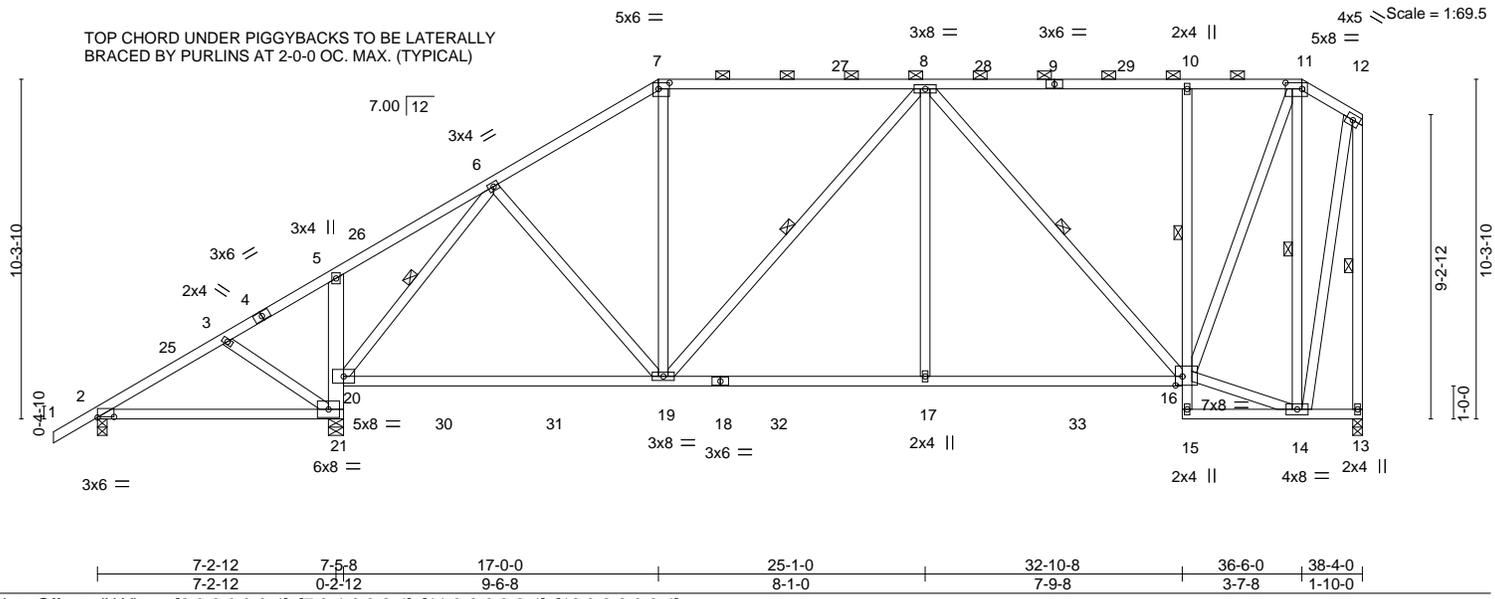


Plate Offsets (X,Y)--	[2:0-6-0,0-0-4], [7:0-4-0,0-2-4], [11:0-6-0,0-2-4], [16:0-2-8,0-3-4]
-----------------------	--

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 0.83	Vert(LL)	-0.32 19-20	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.54 19-20	>694	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 293 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-15 max.): 7-11.
BOT CHORD 2x4 SP No.2 *Except* 5-21: 2x6 SP No.2, 18-20: 2x4 SP No.1, 10-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-7-3 oc bracing. Except: 1 Row at midpt 10-16
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-20, 8-19, 8-16, 11-14, 12-13

REACTIONS.
(size) 2=0-3-8, 13=0-3-8, 21=0-5-8 Max Horz 2=387(LC 12) Max Uplift 2=-34(LC 8), 13=-297(LC 9), 21=-558(LC 12) Max Grav 2=305(LC 25), 13=1380(LC 2), 21=1834(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-5=-247/265, 6-7=-1284/306, 7-8=-1060/309, 8-10=-698/176, 10-11=-690/173, 11-12=-308/79, 12-13=-1340/295 BOT CHORD 20-21=-1587/496, 5-20=-268/184, 19-20=-308/825, 17-19=-315/1242, 16-17=-315/1242, 10-16=-382/204 WEBS 3-21=-256/141, 6-20=-1517/431, 6-19=-107/411, 7-19=-10/347, 8-19=-337/174, 8-17=0/454, 8-16=-824/241, 14-16=-23/274, 11-16=-348/1307, 11-14=-1133/299, 12-14=-271/1157

- 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 -1-4-0 to 2-6-0, Zone1 2-6-0 to 17-0-0, Zone2 17-0-0 to 22-5-1, Zone1 22-5-1 to 36-6-0, Zone3 36-6-0 to 38-2-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=297, 21=558.
  - 8) 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.

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

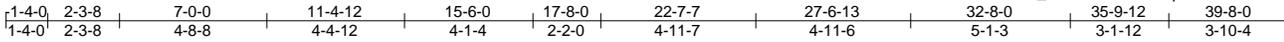
November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--



Job 4925663	Truss T17	Truss Type Hip Girder	Qty 1	Ply 2	SMITH RES.	T39067977
----------------	--------------	--------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:30 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-9NWDcH\_at64BFCnuI3vetqOXZ5Ru6YIAsmTmxZyMrQp



Scale = 1:73.2

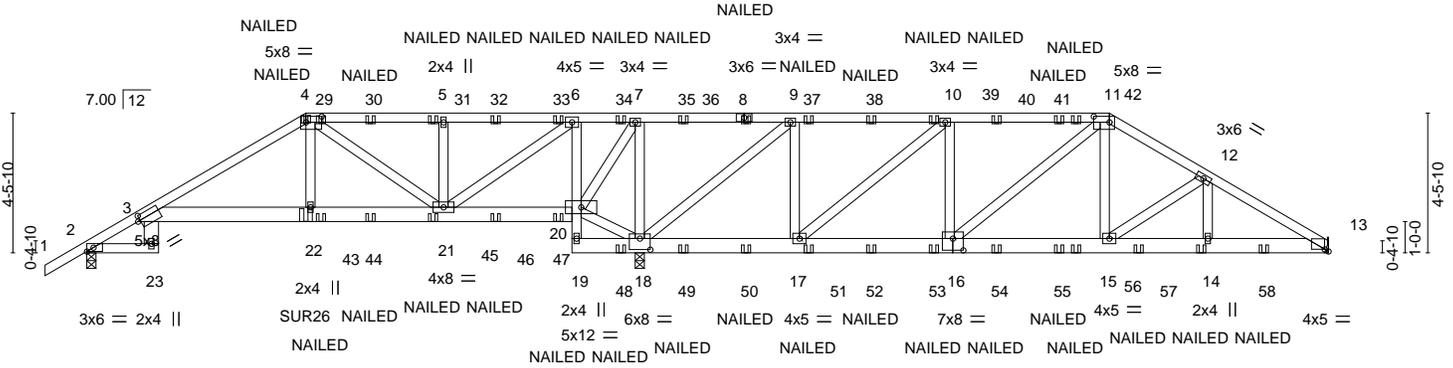


Plate Offsets (X, Y)--	[3:0-0-15,0-2-0], [4:0-6-0,0-2-4], [11:0-6-0,0-2-4], [13:0-1-8,0-0-13], [16:0-4-0,0-4-8], [18:0-4-0,0-4-4]
------------------------	--

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.99	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.52	Vert(LL) 0.12 3-22 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.60	Vert(CT) -0.20 3-22 >999 180		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.12 13 n/a n/a		
				Weight: 503 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2 *Except* 2-23: 2x4 SP No.2, 6-19: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 13=Mechanical, 2=0-3-8, 18=0-3-8  
 Max Horz 2=114(LC 28)  
 Max Uplift 13=602(LC 9), 2=224(LC 8), 18=1898(LC 8)  
 Max Grav 13=1504(LC 22), 2=627(LC 21), 18=4971(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-27=-435/194, 3-4=-849/411, 4-5=-173/623, 5-6=-173/623, 6-7=-1135/2935,  
 7-9=-1202/3121, 9-10=-280/685, 10-11=-1243/667, 11-12=-1874/816, 12-13=-2528/1041  
 BOT CHORD 3-23=-92/255, 3-22=-349/718, 21-22=-357/759, 20-21=-2907/1210, 6-20=-1962/836,  
 18-19=-257/94, 17-18=-651/370, 16-17=-576/1229, 15-16=-621/1614, 14-15=-845/2155,  
 13-14=-845/2155  
 WEBS 4-22=-312/839, 4-21=-1589/661, 5-21=-556/315, 6-21=-1171/2888, 18-20=-3286/1374,  
 7-20=-241/399, 7-18=-837/466, 9-18=-3327/1233, 9-17=-464/1538, 10-17=-2094/779,  
 10-16=-139/728, 11-16=-570/228, 11-15=-248/783, 12-15=-691/318, 12-14=-202/544

- 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: 2x4 - 1 row at 0-9-0 oc, 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.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=602, 2=224, 18=1898.
  - Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 7-0-0 from the left end to connect truss(es) to bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.

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:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T17	Truss Type Hip Girder	Qty 1	Ply <b>2</b>	SMITH RES. Job Reference (optional)	T39067977
----------------	--------------	--------------------------	----------	-----------------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:31 2025 Page 2  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-dZ4cpd?CePC2sMM4rmQtQ2xiJUm7r?YJ5QDJT?yMrQo

**NOTES-**

- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-11=-60, 11-13=-60, 23-26=-20, 3-20=-20, 13-19=-20

Concentrated Loads (lb)

Vert: 4=-13(B) 8=-122(B) 22=-364(B) 14=-246(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-109(B) 34=-122(B) 35=-122(B) 37=-122(B) 38=-122(B)  
39=-122(B) 40=-122(B) 41=-122(B) 42=-122(B) 43=-82(B) 44=-82(B) 45=-82(B) 46=-82(B) 47=-82(B) 48=-68(B) 49=-68(B) 50=-68(B) 51=-68(B) 52=-68(B)  
53=-68(B) 54=-68(B) 55=-68(B) 56=-68(B) 57=-246(B) 58=-246(B)

**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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

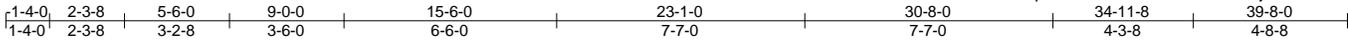
**MiTek®**

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

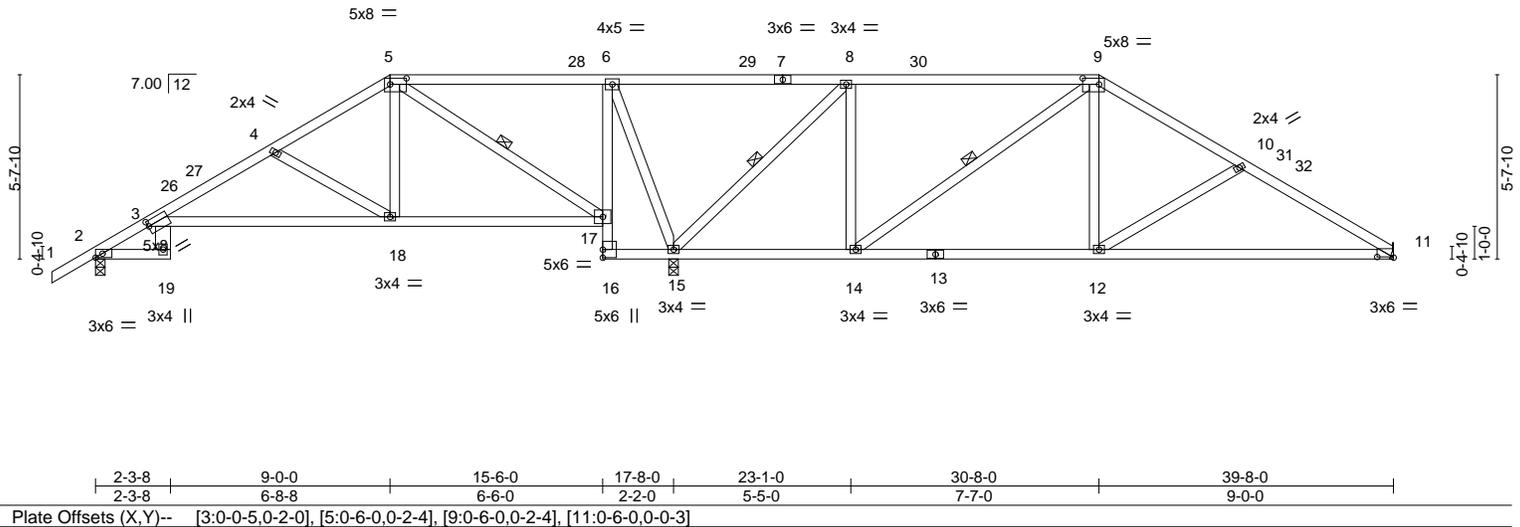
Job 4925663	Truss T18	Truss Type Hip	Qty 1	Ply 1	SMITH RES.	T39067978
----------------	--------------	-------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:31 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-dZ4cpd?CePC2sMM4rmQtQ2xkFUjNr?HJ5QDJT?yMrQo



Scale = 1:70.1



LOADING (psf)	SPACING-	CSi.	DEFLL.	VERT(LL)	VERT(CT)	HORZ(CT)	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.87	in (loc) l/defl L/d	0.24 3-18 >899 240	-0.47 3-18 >453 180	0.15 11 n/a n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.76						
BCLL 0.0 *	Lumber DOL 1.25	WB 0.61						
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014						Weight: 213 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 3-19: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-17, 8-15, 9-14

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8, 15=0-3-8  
 Max Horz 2=143(LC 11)  
 Max Uplift 11=265(LC 13), 2=154(LC 12), 15=502(LC 9)  
 Max Grav 11=707(LC 26), 2=503(LC 25), 15=2117(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-24=-303/127, 3-4=-552/205, 5-6=-128/705, 6-8=-225/960, 8-9=-203/338,  
 9-10=-791/381, 10-11=-1050/454  
 BOT CHORD 3-18=-204/509, 6-17=-88/454, 15-16=-617/203, 12-14=-179/632, 11-12=-331/882  
 WEBS 4-18=-452/226, 5-18=-75/441, 5-17=-994/285, 6-15=-971/333, 8-15=-1355/312,  
 8-14=-23/547, 9-14=-637/116, 9-12=-50/437, 10-12=-342/191

**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 -1-4-0 to 2-7-10, Zone1 2-7-10 to 9-0-0, Zone2 9-0-0 to 14-7-5, Zone1 14-7-5 to 30-8-0, Zone2 30-8-0 to 36-3-5, Zone1 36-3-5 to 39-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=265, 2=154, 15=502.

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

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

November 4, 2025

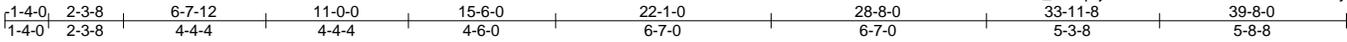
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T19	Truss Type Hip	Qty 1	Ply 1	SMITH RES.	T39067979
----------------	--------------	-------------------	----------	----------	------------	-----------

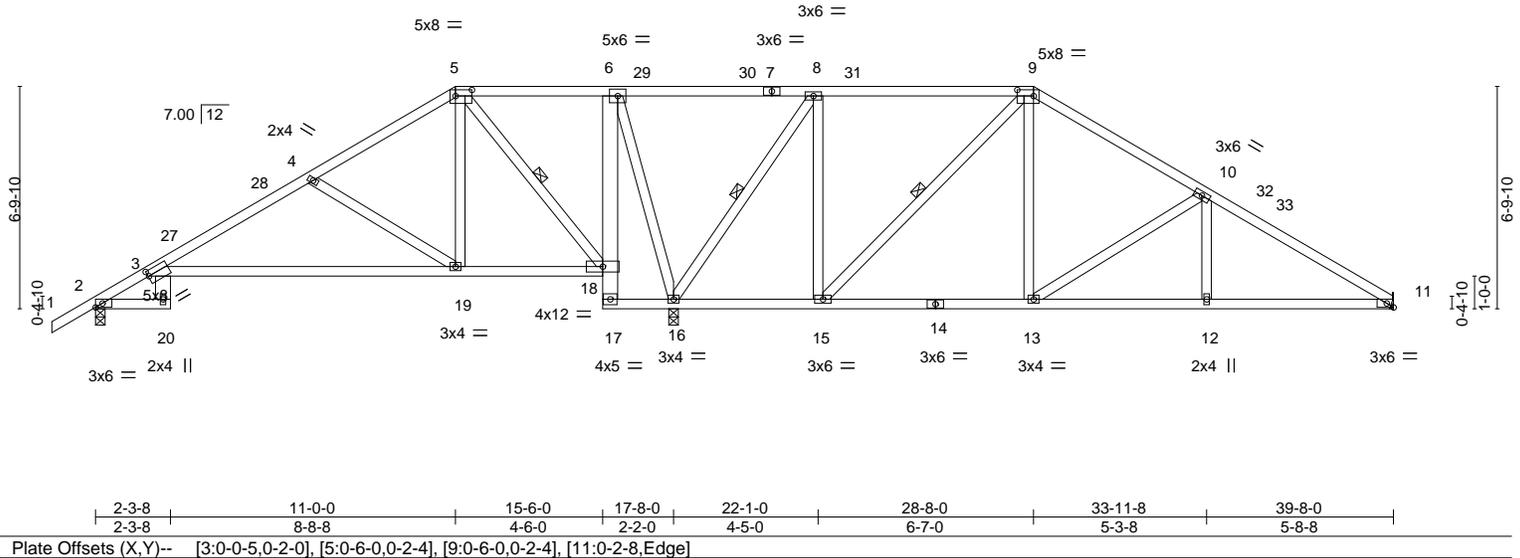
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:32 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-5md\_1z0qPjKvUWxHPUX6zFTwfu14aMitJ4yt?RyMrQn



Scale = 1:70.1



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.33	3-19	>647	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.66	3-19	>319		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.14	16	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						
								Weight: 234 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-10 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 4-7-3 oc bracing.
3-20,6-17: 2x6 SP No.2	WEBS 1 Row at midpt 5-18, 8-16, 9-15
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 11=Mechanical, 2=0-3-8, 16=0-3-8  
 Max Horz 2=172(LC 11)  
 Max Uplift 11=-264(LC 13), 2=-95(LC 13), 16=-589(LC 12)  
 Max Grav 11=647(LC 28), 2=346(LC 25), 16=2615(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-4=-63/297, 4-5=-99/629, 5-6=-230/1345, 6-8=-290/1501, 8-9=-161/766,  
 9-10=-507/382, 10-11=-955/430  
 BOT CHORD 18-19=-434/164, 6-18=-176/854, 16-17=-1142/326, 15-16=-714/302, 13-15=-212/369,  
 12-13=-299/767, 11-12=-299/767  
 WEBS 4-19=-464/243, 5-19=-85/547, 5-18=-1318/319, 6-16=-1119/367, 8-16=-1470/275,  
 8-15=-81/892, 9-15=-998/176, 9-13=-85/566, 10-13=-600/234

**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 -1-4-0 to 2-7-10, Zone1 2-7-10 to 11-0-0, Zone2 11-0-0 to 16-7-5, Zone1 16-7-5 to 28-8-0, Zone2 28-8-0 to 34-3-5, Zone1 34-3-5 to 39-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 2 except (jt=lb) 11=264, 16=589.

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

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

November 4,2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067980
4925663	T20	Hip	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:33 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZyBMEJ1SA1Sl6gWTzBSLVT08QIOXJtBcYkiQYuyMrQm



Scale = 1:71.2

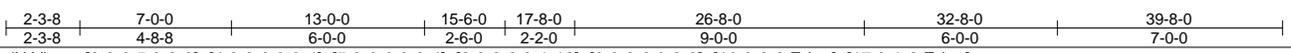
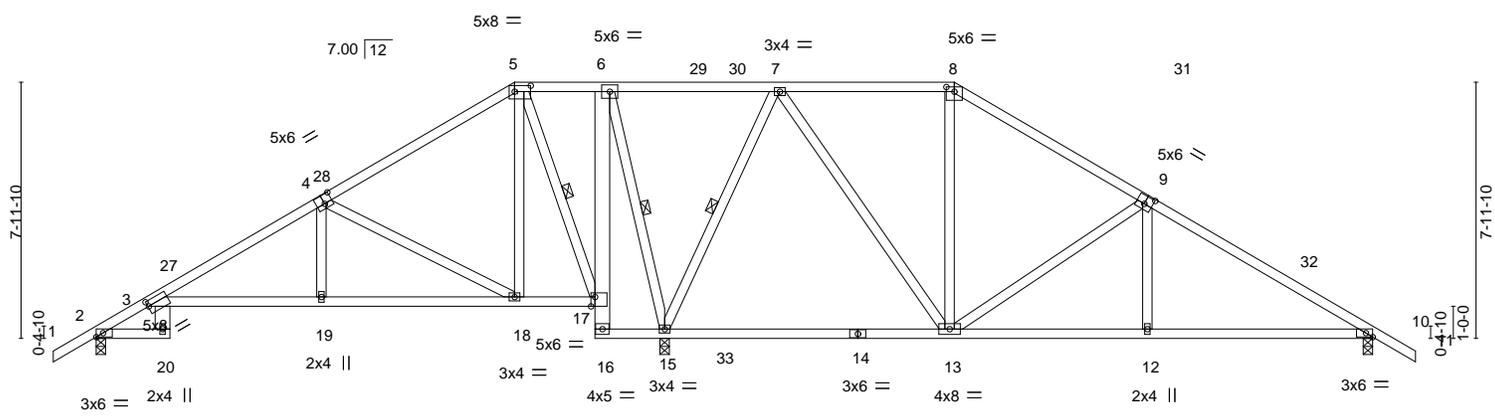


Plate Offsets (X,Y)-- [3:0-0-5,0-2-0], [4:0-3-0,0-3-4], [5:0-6-0,0-2-4], [8:0-3-0,0-1-12], [9:0-3-0,0-3-0], [10:0-2-8,Edge], [17:0-1-8,Edge]

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.78	Vert(LL) -0.20 13-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.72	Vert(CT) -0.31 13-15 >854 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.09 15 n/a n/a		
	Code FBC2023/TPI2014			Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 4-11-13 oc bracing.
3-20,6-16: 2x6 SP No.2	WEBS 1 Row at midpt 5-17, 6-15, 7-15
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 15=0-3-8, 10=0-3-8  
 Max Horz 2=-207(LC 10)  
 Max Uplift 2=-116(LC 13), 15=-608(LC 12), 10=-308(LC 13)  
 Max Grav 2=351(LC 20), 15=2624(LC 2), 10=753(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 3-22=-288/189, 4-5=-168/905, 5-6=-182/1136, 6-7=-242/1295, 7-8=-254/369, 8-9=-403/398, 9-10=-923/426  
 BOT CHORD 17-18=-631/252, 16-17=-305/40, 6-17=-260/865, 15-16=-979/327, 13-15=-757/319, 12-13=-278/722, 10-12=-278/723  
 WEBS 4-19=0/305, 4-18=-788/297, 5-18=-62/424, 5-17=-1145/289, 6-15=-1001/388, 7-15=-1248/265, 7-13=-155/1058, 8-13=-297/117, 9-13=-693/277, 9-12=0/267

- 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 -1-4-0 to 2-7-10, Zone1 2-7-10 to 13-0-0, Zone2 13-0-0 to 18-7-5, Zone1 18-7-5 to 26-8-0, Zone2 26-8-0 to 32-3-5, Zone1 32-3-5 to 41-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=116, 15=608, 10=308.

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

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T21	Truss Type Hip	Qty 1	Ply 1	SMITH RES.	T39067981
----------------	--------------	-------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:33 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ZyBMEJ1SA1SI6gWTzBSLVT06JIRyJxwcYkiQYuyMrQm



Scale = 1:67.9

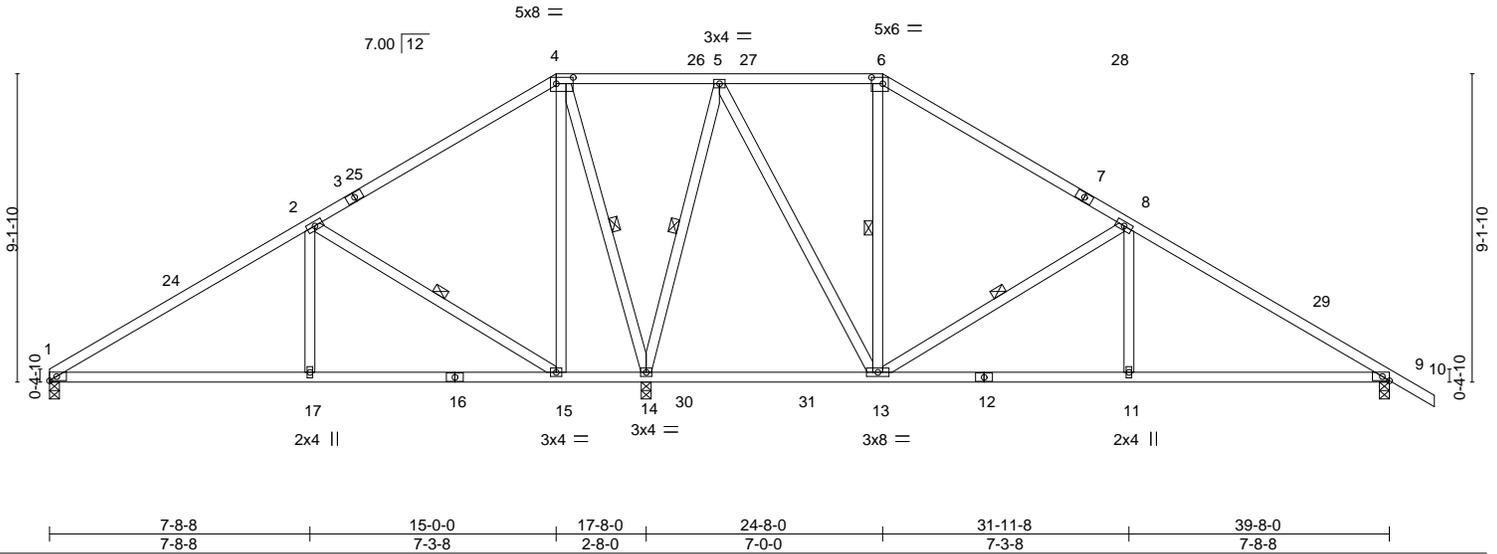


Plate Offsets (X, Y)--	[4:0-6-0,0-2-4], [6:0-4-0,0-2-4], [9:0-2-8,Edge]
------------------------	--

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 0.71	Vert(LL)	-0.11 11-23	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.22 11-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 232 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-4 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 2-15, 4-14, 5-14, 6-13, 8-13

**REACTIONS.** (size) 1=0-3-8, 14=0-3-8, 9=0-3-8  
 Max Horz 1=-230(LC 8)  
 Max Uplift 1=-146(LC 12), 14=-424(LC 12), 9=-267(LC 13)  
 Max Grav 1=559(LC 19), 14=2165(LC 2), 9=905(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-668/176, 2-4=0/342, 4-5=0/491, 5-6=-254/257, 6-8=-416/230, 8-9=-1094/340  
 BOT CHORD 1-17=-191/613, 15-17=-191/613, 14-15=-288/255, 13-14=-284/206, 11-13=-171/872, 9-11=-171/872  
 WEBS 2-17=0/348, 2-15=-871/333, 4-15=-129/567, 4-14=-1006/291, 5-14=-1070/292, 5-13=-209/938, 8-13=-838/326, 8-11=0/328

- 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 3-11-10, Zone1 3-11-10 to 15-0-0, Zone2 15-0-0 to 20-7-5, Zone1 20-7-5 to 24-8-0, Zone2 24-8-0 to 30-3-5, Zone1 30-3-5 to 41-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) All plates are 3x6 MT20 unless otherwise indicated.
  - 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, with BCDL = 10.0psf.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=146, 14=424, 9=267.

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

Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 63014  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

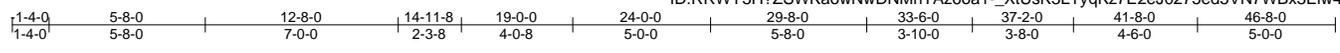
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--





Job 4925663	Truss T24	Truss Type Piggyback Base Girder	Qty 1	Ply 1	SMITH RES.	T39067984
----------------	--------------	-------------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:36 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-...XtUsK3LTyqKz7E2eJ0275ed5VN7WBx3Eiw48CyMrQj



Scale = 1:83.2

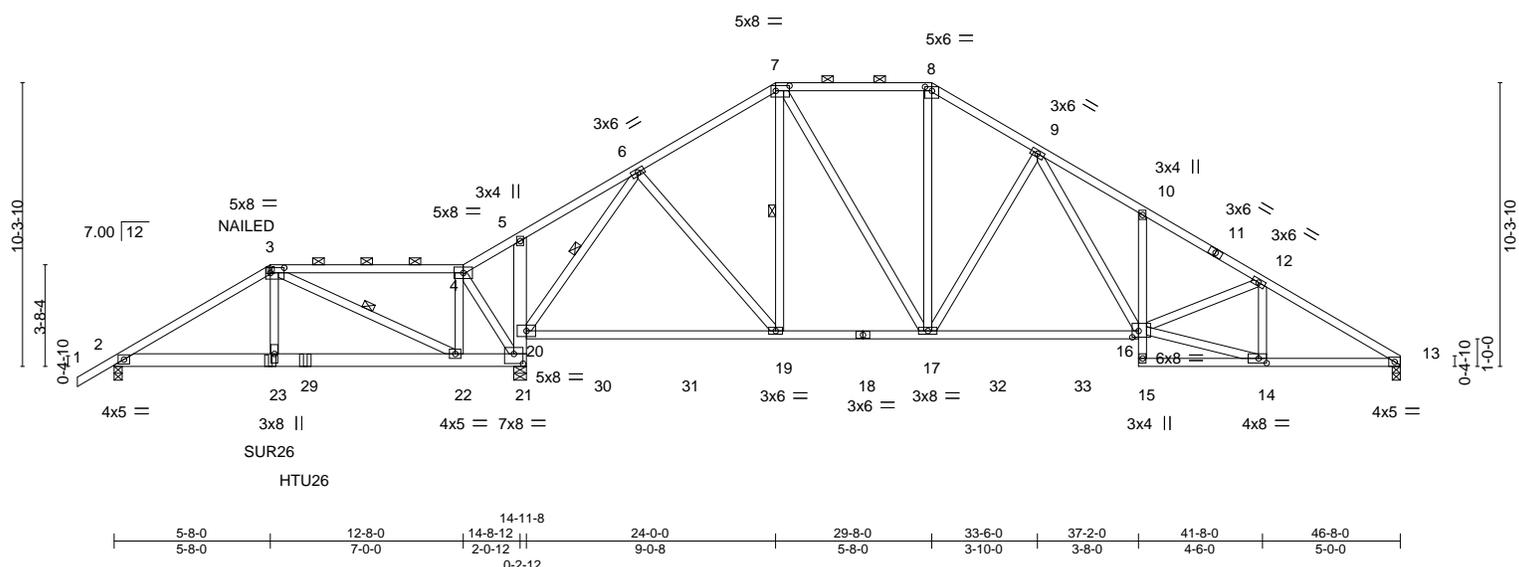


Plate Offsets (X, Y)--	[3:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [14:0-3-8,0-2-0], [16:0-2-12,0-2-12], [21:0-4-0,0-4-4]
------------------------	--

LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.98	Vert(LL) -0.32 19-20 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.91	Vert(CT) -0.54 19-20 >714 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.08 13 n/a n/a		
	Code FBC2023/TPI2014			Weight: 306 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-14 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-9-9 max.): 3-4, 7-8.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-0-13 oc bracing.
	WEBS 1 Row at midpt 3-22, 6-20, 7-19

REACTIONS.
(size) 2=0-3-8, 13=0-3-8, 21=0-5-8
Max Horz 2=259(LC 7)
Max Uplift 2=460(LC 8), 13=318(LC 30), 21=714(LC 8)
Max Grav 2=1001(LC 21), 13=1417(LC 16), 21=2577(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1539/889, 3-4=-245/390, 4-5=-180/631, 5-6=-147/681, 6-7=-1155/334, 7-8=-1190/382, 8-9=-1412/403, 9-10=-2449/645, 10-12=-2419/549, 12-13=-2401/539
BOT CHORD	2-23=-847/1265, 22-23=-868/1300, 21-22=-311/212, 20-21=-1832/340, 19-20=-159/700, 17-19=-113/979, 16-17=-153/1496, 10-16=-251/164, 13-14=-400/2014
WEBS	3-23=-467/809, 3-22=-1221/657, 4-22=-427/901, 4-21=-1067/623, 6-20=-1875/332, 6-19=-96/612, 7-17=-157/522, 8-17=-111/500, 9-17=-780/308, 9-16=-298/1084, 14-16=-382/2050, 12-14=-295/106

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=460, 13=318, 21=714.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Use Simpson Strong-Tie SUR26 (6-10dx1 1/2 Girder, 6-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 5-8-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 6-11-4 from the left end to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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:

November 4, 2025

**LOAD CASE(S)** Standard

**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 4925663	Truss T24	Truss Type Piggyback Base Girder	Qty 1	Ply 1	SMITH RES.  Job Reference (optional)	T39067984
----------------	--------------	-------------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:36 2025 Page 2  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-\_XtUsK3LTyqKz7E2eJ0275ed5VN7WBx3Eiw48CyMrQj

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-7=-60, 7-8=-60, 8-13=-60, 2-21=-20, 16-20=-20, 15-26=-20

Concentrated Loads (lb)

Vert: 3=-105(B) 23=-251(B) 29=-409(B)

**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](http://www.tpinst.org)) and **BCSI Building Component Safety Information** available from the Structural Building Component Association ([www.sbcsccomponents.com](http://www.sbcsccomponents.com))

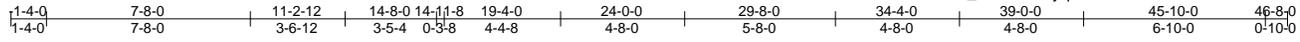
**MiTek®**

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

Job 4925663	Truss T25	Truss Type Piggyback Base	Qty 1	Ply 1	SMITH RES.	T39067985
----------------	--------------	------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:36 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1\_XtUsK3LTyqKz7E2eJ0275ed4VOYWcS3Eiw48CyMrQj



Scale = 1:86.2

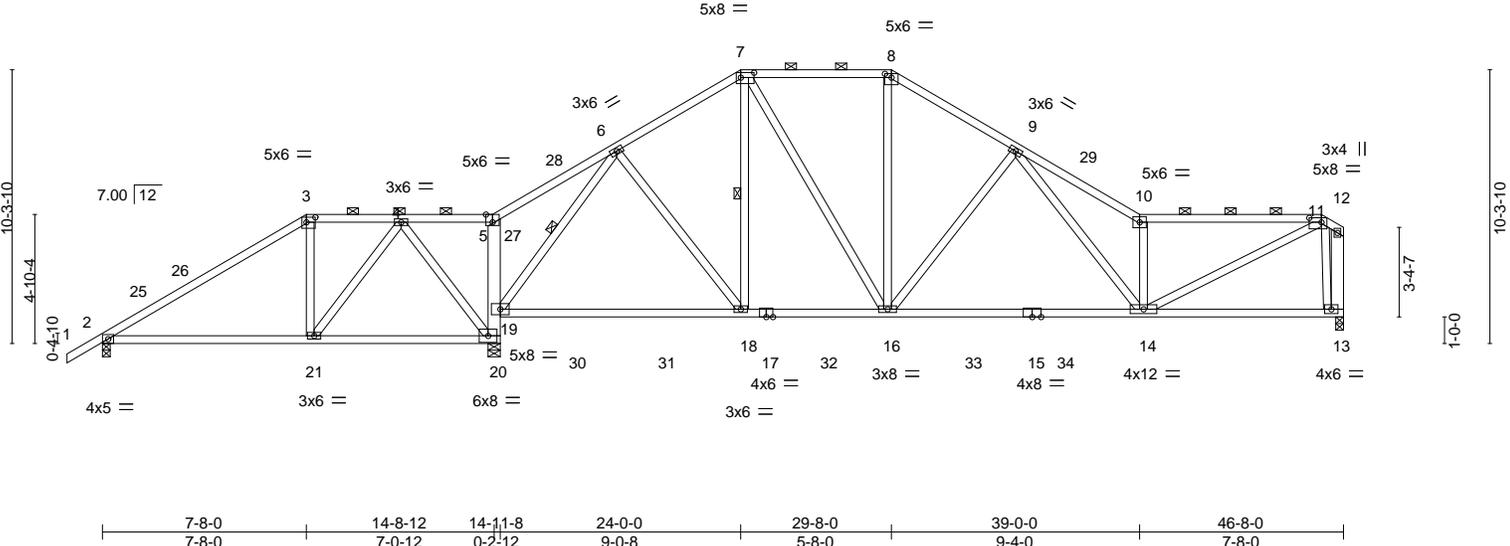


Plate Offsets (X, Y)--	[3:0-4-0,0-2-4], [5:0-3-0,Edge], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [11:0-5-8,0-2-0]
------------------------	--

LOADING (psf)	SPACING-	CSi.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.95	Vert(LL) -0.35 14-16 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.85	Vert(CT) -0.62 14-16 >615 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.04 13 n/a n/a		
	Code FBC2023/TPI2014			Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 10-11: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-3-3 max.): 3-5, 7-8, 10-11.
BOT CHORD 2x4 SP No.2 *Except* 5-20: 2x6 SP No.2, 13-15: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-13: 2x6 SP No.2	WEBS 1 Row at midpt 6-19, 7-18

**REACTIONS.** (size) 2=0-3-8, 20=0-5-8, 13=0-3-8  
 Max Horz 2=282(LC 12)  
 Max Uplift 2=-152(LC 9), 20=-485(LC 12), 13=-307(LC 13)  
 Max Grav 2=610(LC 25), 20=2216(LC 2), 13=1354(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-606/278, 3-4=-426/286, 4-5=-107/383, 5-6=-100/509, 6-7=-1184/291, 7-8=-1197/343, 8-9=-1442/352, 9-10=-2703/615, 10-11=-2227/456  
 BOT CHORD 2-21=-289/429, 19-20=-1586/305, 18-19=-156/706, 16-18=-123/967, 14-16=-300/1595, 13-14=-72/262  
 WEBS 4-21=-244/503, 4-20=-681/285, 6-19=-1739/322, 6-18=-69/522, 7-16=-146/485, 8-16=-73/464, 9-16=-711/300, 9-14=-264/1144, 10-14=-1599/468, 11-14=-419/2226, 11-13=-1323/404

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 7-8-0, Zone2 7-8-0 to 14-3-3, Zone1 14-3-3 to 24-0-0, Zone3 24-0-0 to 29-8-0, Zone2 29-8-0 to 36-3-3, Zone1 36-3-3 to 45-10-0, Zone3 45-10-0 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=152, 20=485, 13=307.
  - 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:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T26	Truss Type Piggyback Base	Qty 1	Ply 1	SMITH RES.	T39067986
----------------	--------------	------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:37 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTaz6oa1-SjRt4g4zEFyBbHpEC1XHgJBltvnkF6CTMgehyMrQi



Scale = 1:87.4

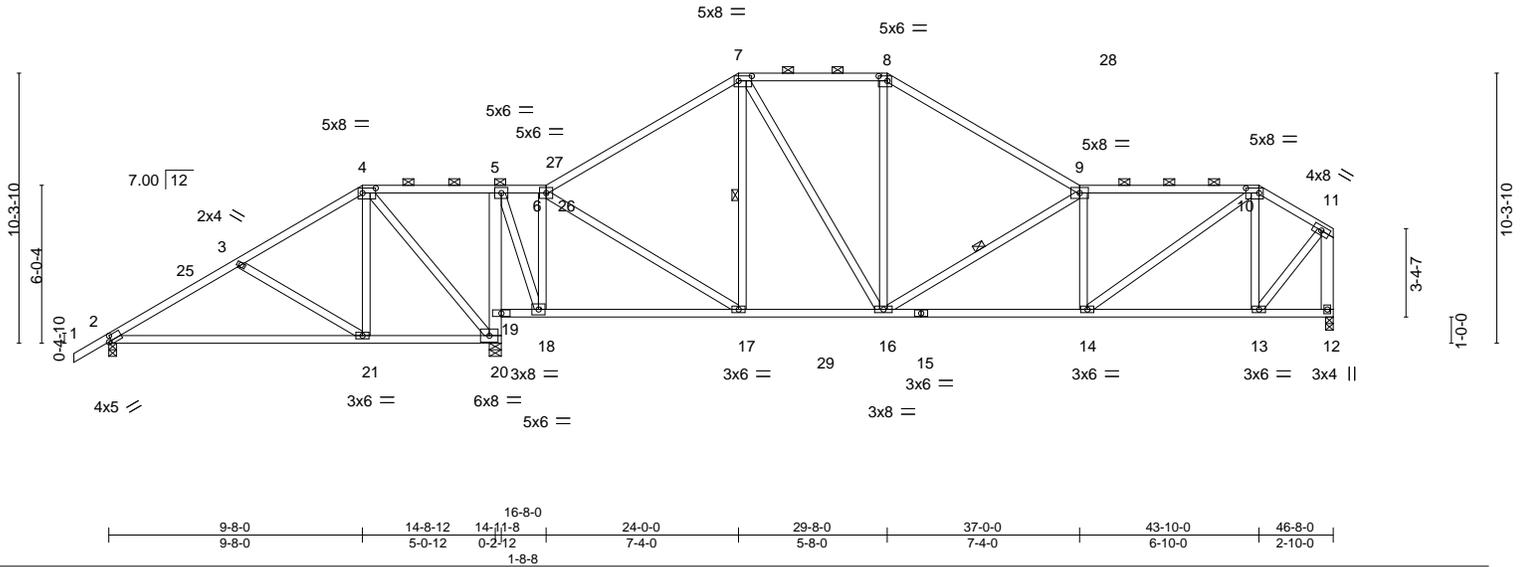


Plate Offsets (X,Y)-- [2:0-1-7,0-2-8], [4:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-4-0,0-2-4], [10:0-6-0,0-2-4]

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 0.93	Vert(LL)	0.19 21-24	>929	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.38 21-24	>471	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 305 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-6, 7-8, 9-10.
BOT CHORD 2x4 SP No.2 *Except* 5-20: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-8 oc bracing.
WEBS 2x4 SP No.3 *Except* 11-12: 2x6 SP No.2	WEBS 1 Row at midpt 7-17, 9-16

**REACTIONS.** (size) 2=0-3-8, 20=0-5-8, 12=0-3-8  
 Max Horz 2=282(LC 12)  
 Max Uplift 2=-123(LC 9), 20=-532(LC 12), 12=-301(LC 13)  
 Max Grav 2=562(LC 27), 20=2229(LC 2), 12=1291(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-564/245, 3-4=-278/177, 4-5=-134/435, 6-7=-1095/262, 7-8=-1100/340,  
 8-9=-1361/315, 9-10=-1815/434, 10-11=-842/209, 11-12=-1272/304  
 BOT CHORD 2-21=-312/463, 19-20=-1598/343, 5-19=-1581/316, 18-19=-451/131, 16-17=-104/863,  
 14-16=-381/1832, 13-14=-147/691  
 WEBS 3-21=-379/215, 4-21=-262/486, 4-20=-804/370, 5-18=-281/1510, 6-18=-1236/330,  
 6-17=-136/882, 7-17=-302/110, 7-16=-157/497, 8-16=-20/350, 9-16=-872/315,  
 9-14=-583/208, 10-14=-279/1377, 10-13=-656/204, 11-13=-229/1081

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 9-8-0, Zone2 9-8-0 to 16-3-3, Zone1 16-3-3 to 24-0-0, Zone3 24-0-0 to 29-8-0, Zone2 29-8-0 to 36-3-3, Zone1 36-3-3 to 43-10-0, Zone3 43-10-0 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 20=532, 12=301.
  - 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:

November 4, 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)

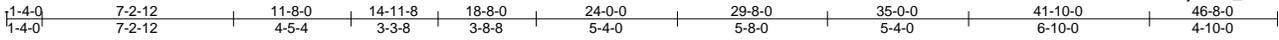
**MiTek®**

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

Job 4925663	Truss T27	Truss Type Piggyback Base	Qty 1	Ply 1	SMITH RES.	T39067987
----------------	--------------	------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:38 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ww?FH05b?Z42CROQmk2WCWjzJ7Y\_4YLiOPBD5yMrQh



Scale = 1:86.6

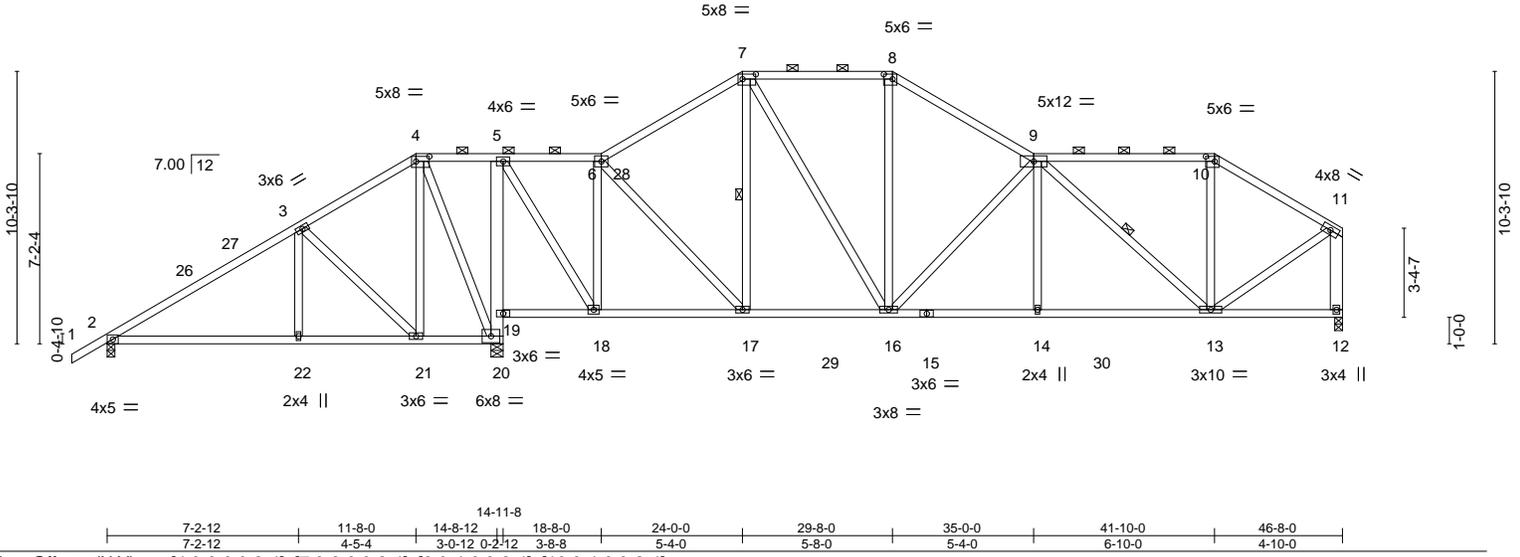


Plate Offsets (X, Y)--	[4:0-6-0,0-2-4], [7:0-6-0,0-2-4], [8:0-4-0,0-2-4], [10:0-4-0,0-2-4]
------------------------	---

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	0.11	22-25	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.18	22-25	>958		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 325 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-8-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-9 max.): 4-6, 7-8, 9-10.
BOT CHORD 2x4 SP No.2 *Except* 5-20: 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-21,18-19 5-5-12 oc bracing: 19-20.
WEBS 2x4 SP No.3 *Except* 11-12: 2x6 SP No.2	WEBS 1 Row at midpt 7-17, 9-13

**REACTIONS.** (size) 2=0-3-8, 20=0-5-8, 12=0-3-8  
 Max Horz 2=282(LC 12)  
 Max Uplift 2=-127(LC 12), 20=-521(LC 12), 12=-307(LC 13)  
 Max Grav 2=553(LC 25), 20=2256(LC 2), 12=1309(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-533/253, 4-5=-99/385, 5-6=-459/174, 6-7=-1056/285, 7-8=-1098/346,  
 8-9=-1333/345, 9-10=-925/287, 10-11=-1118/280, 11-12=-1245/317  
 BOT CHORD 2-22=-271/382, 21-22=-271/382, 19-20=-1573/314, 5-19=-1497/318, 18-19=-390/105,  
 17-18=-79/464, 16-17=-116/854, 14-16=-312/1622, 13-14=-311/1628  
 WEBS 3-22=-136/283, 3-21=-566/329, 4-21=-273/500, 4-20=-712/312, 5-18=-281/1528,  
 6-18=-1142/275, 6-17=-78/577, 7-17=-253/91, 7-16=-145/508, 8-16=-50/378,  
 9-16=-778/281, 9-14=0/287, 9-13=-937/172, 10-13=0/278, 11-13=-205/1080

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 11-8-0, Zone2 11-8-0 to 18-3-3, Zone1 18-3-3 to 24-0-0, Zone3 24-0-0 to 35-0-0, Zone1 35-0-0 to 41-10-0, Zone3 41-10-0 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 20=521, 12=307.
  - 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.

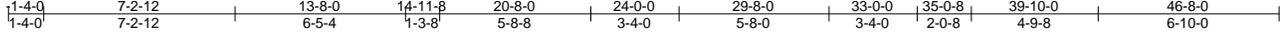
Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 the 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T28	Truss Type Piggyback Base	Qty 1	Ply 1	SMITH RES.	T39067988
----------------	--------------	------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:39 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-O6ZdVM5DhCvqbdJSZlljGA7jPijXYVwg9klXyMrQg



Scale = 1:86.6

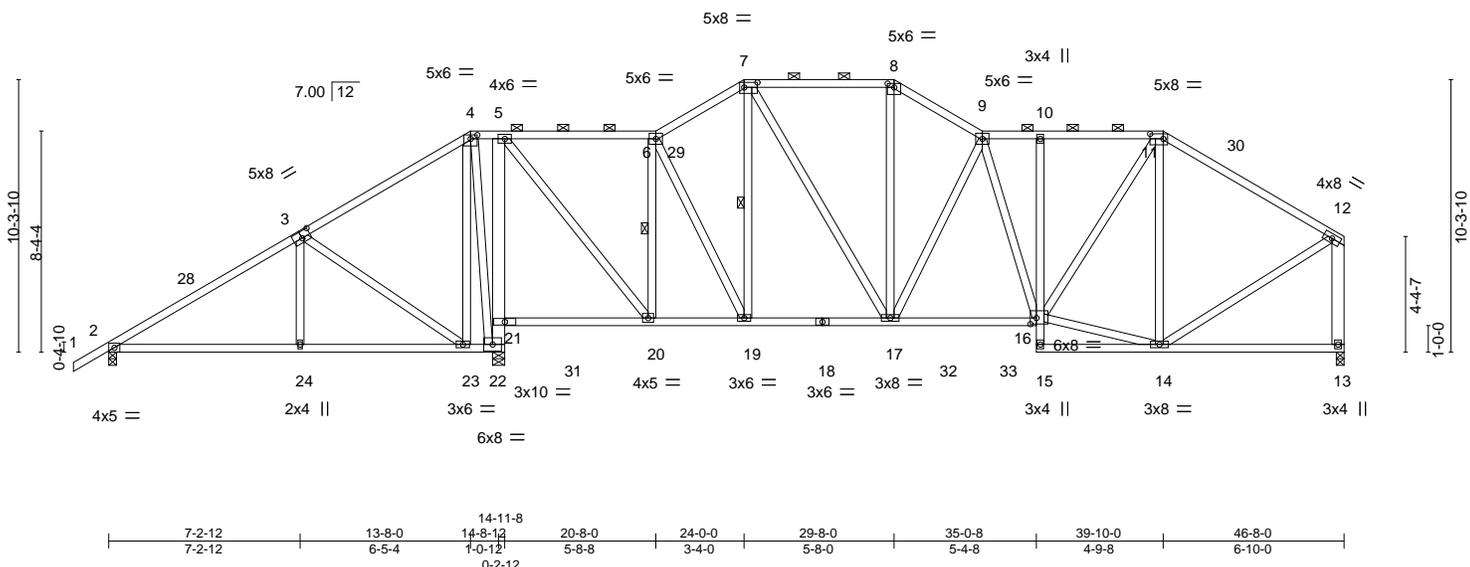


Plate Offsets (X,Y)--	[3:0-4-0,0-3-0], [4:0-3-0,0-1-12], [7:0-6-0,0-2-4], [8:0-3-0,0-1-12], [11:0-6-0,0-2-4], [16:0-2-12,0-2-12]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	-0.10 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.17 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 365 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-8 max.): 4-6, 7-8, 9-11.
BOT CHORD 2x4 SP No.2 *Except* 5-22: 2x6 SP No.2, 10-15: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-6-1 oc bracing.
WEBS 2x4 SP No.3 *Except* 12-13: 2x6 SP No.2	WEBS 1 Row at midpt 6-20, 7-19

**REACTIONS.** (size) 2=0-3-8, 13=0-3-8, 22=0-5-8  
 Max Horz 2=282(LC 12)  
 Max Uplift 2=-112(LC 12), 13=-304(LC 13), 22=-542(LC 12)  
 Max Grav 2=480(LC 25), 13=1274(LC 2), 22=2420(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-404/222, 3-4=-110/491, 4-5=-77/455, 5-6=-559/209, 6-7=-938/289, 7-8=-1051/339, 8-9=-1232/353, 9-10=-1281/378, 10-11=-1277/379, 11-12=-1068/284, 12-13=-1163/322  
 BOT CHORD 2-24=-242/274, 23-24=-242/274, 22-23=-365/111, 21-22=-1704/352, 5-21=-1514/350, 20-21=-449/123, 19-20=-93/581, 17-19=-123/773, 16-17=-232/1323  
 WEBS 3-24=-145/313, 3-23=-663/372, 4-23=-275/488, 4-22=-780/336, 5-20=-276/1590, 6-20=-1053/249, 6-19=-71/465, 7-19=-294/87, 7-17=-144/562, 8-17=-81/361, 9-17=-630/268, 14-16=-144/852, 11-16=-159/795, 11-14=-490/157, 12-14=-158/944

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 13-8-0, Zone2 13-8-0 to 20-3-3, Zone1 20-3-3 to 24-0-0, Zone3 24-0-0 to 33-0-0, Zone1 33-0-0 to 39-10-0, Zone3 39-10-0 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 13=304, 22=542.
  - 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:

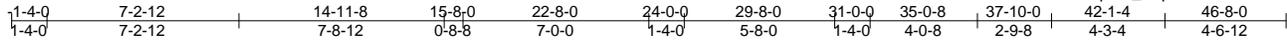
November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067989
4925663	T29	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:40 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sl6?ii6sWAKmSIYpt94\_HxpJD7m6S5Je9KulH\_yMrQf



Scale = 1:86.4

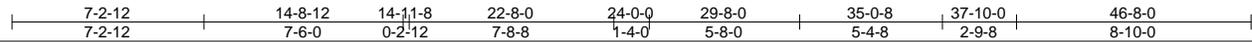
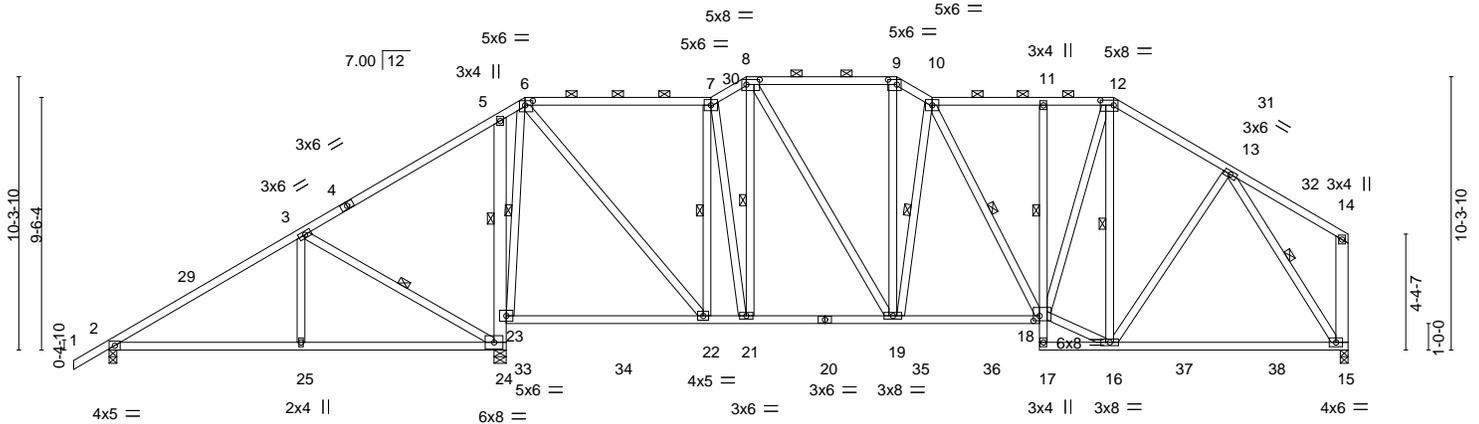


Plate Offsets (X, Y)--	[6:0-3-8,0-2-0], [8:0-6-0,0-2-4], [9:0-4-0,0-2-4], [12:0-6-0,0-2-4], [18:0-2-12,0-2-4]
------------------------	--

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 0.73	Vert(LL)	-0.24 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.40 15-16	>963	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04 15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 378 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-5 max.): 6-7, 8-9, 10-12.
BOT CHORD 2x4 SP No.2 *Except* 5-24: 2x6 SP No.2, 11-17: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-1-2 oc bracing. Except: 1 Row at midpt 5-23, 11-18
WEBS 2x4 SP No.3 *Except* 14-15: 2x6 SP No.2	WEBS 1 Row at midpt 3-24, 6-23, 7-22, 8-21, 10-19, 10-18, 12-16, 13-15

REACTIONS.
(size) 2=0-3-8, 24=0-5-8, 15=0-3-8 Max Horz 2=282(LC 12) Max Uplift 2=113(LC 9), 24=545(LC 12), 15=311(LC 13) Max Grav 2=558(LC 25), 24=2301(LC 2), 15=1363(LC 2)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-559/277, 3-5=-122/434, 5-6=-43/316, 6-7=-857/264, 7-8=-1058/323, 8-9=-1150/352, 9-10=-1307/386, 10-11=-1179/378, 11-12=-1173/376, 12-13=-1154/345 BOT CHORD 2-25=-273/408, 24-25=-273/408, 23-24=-1843/419, 5-23=-408/218, 21-22=-138/872, 19-21=-145/885, 18-19=-180/1250, 15-16=-165/732 WEBS 3-25=-156/342, 3-24=-705/388, 6-23=-1418/303, 6-22=-244/1479, 7-22=-837/236, 8-19=-135/535, 9-19=-127/429, 10-19=-602/283, 16-18=-121/1057, 12-18=-210/776, 12-16=-389/156, 13-16=-92/375, 13-15=-1275/303

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 15-8-0, Zone2 15-8-0 to 22-3-3, Zone1 22-3-3 to 24-0-0, Zone3 24-0-0 to 31-0-0, Zone1 31-0-0 to 37-10-0, Zone2 37-10-0 to 44-5-3, Zone1 44-5-3 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113, 24=545, 15=311.
  - 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 6304  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job	Truss	Truss Type	Qty	Ply	SMITH RES.	T39067990
4925663	T30	Hip	1	1		

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:40 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-sl6?iisWAKmSIYpt94\_HxpLD7mpS2ue9KulH\_yMrQf



3x6 =

Scale = 1:83.6

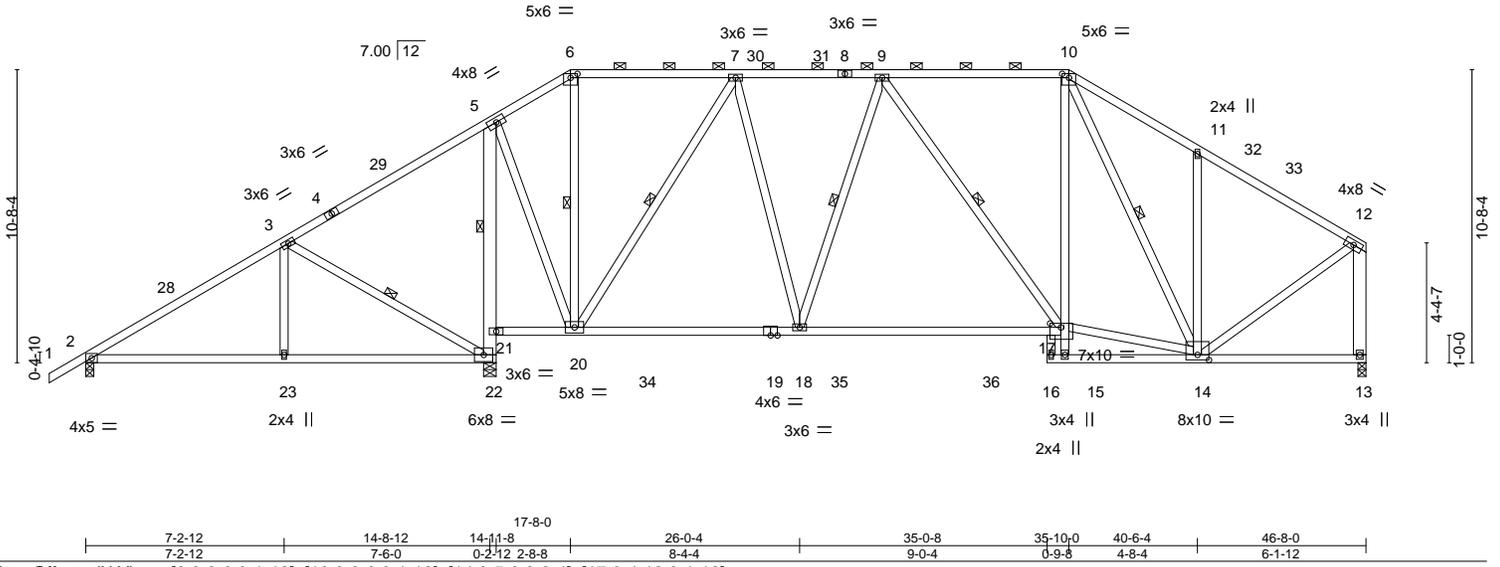


Plate Offsets (X,Y)--	[6:0-3-0,0-1-12], [10:0-3-0,0-1-12], [14:0-5-0,0-2-4], [17:0-4-12,0-1-12]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	-0.34 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.55 17-18	>686	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 343 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 6-10.
BOT CHORD 2x4 SP No.2 *Except* 5-22: 2x6 SP No.2, 10-15: 2x4 SP No.3, 17-19: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-4-3 oc bracing. Except:
WEBS 2x4 SP No.3 *Except* 12-13: 2x6 SP No.2	WEBS 1 Row at midpt 5-21 10-0-0 oc bracing: 15-17 3-22, 6-20, 7-20, 9-18, 9-17, 10-14

REACTIONS.
(size) 2=0-3-8, 13=0-3-8, 22=0-5-8
Max Horz 2=288(LC 12)
Max Uplift 2=-109(LC 12), 13=-329(LC 13), 22=-575(LC 12)
Max Grav 2=600(LC 27), 13=1383(LC 28), 22=2218(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-611/268, 3-5=-143/329, 5-6=-407/199, 6-7=-338/182, 7-9=-1100/336, 9-10=-1087/391, 10-11=-1112/444, 11-12=-1117/295, 12-13=-1287/343
BOT CHORD	2-23=-263/498, 22-23=-263/498, 21-22=-1757/447, 5-21=-1730/446, 18-20=-186/935, 17-18=-220/1165, 10-17=-104/647
WEBS	3-23=-155/340, 3-22=-709/374, 5-20=-237/1288, 7-20=-1139/274, 7-18=-126/691, 9-18=-310/191, 11-14=-379/256, 12-14=-206/1072, 14-17=-135/1174, 10-14=-464/185

- 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 -1-4-0 to 3-4-0, Zone1 3-4-0 to 17-8-0, Zone2 17-8-0 to 24-3-3, Zone1 24-3-3 to 35-8-4, Zone2 35-8-4 to 42-3-7, Zone1 42-3-7 to 46-5-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 4) Provide adequate drainage to prevent water ponding.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 2=109, 13=329, 22=575.
  - 8) 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.

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

November 4, 2025

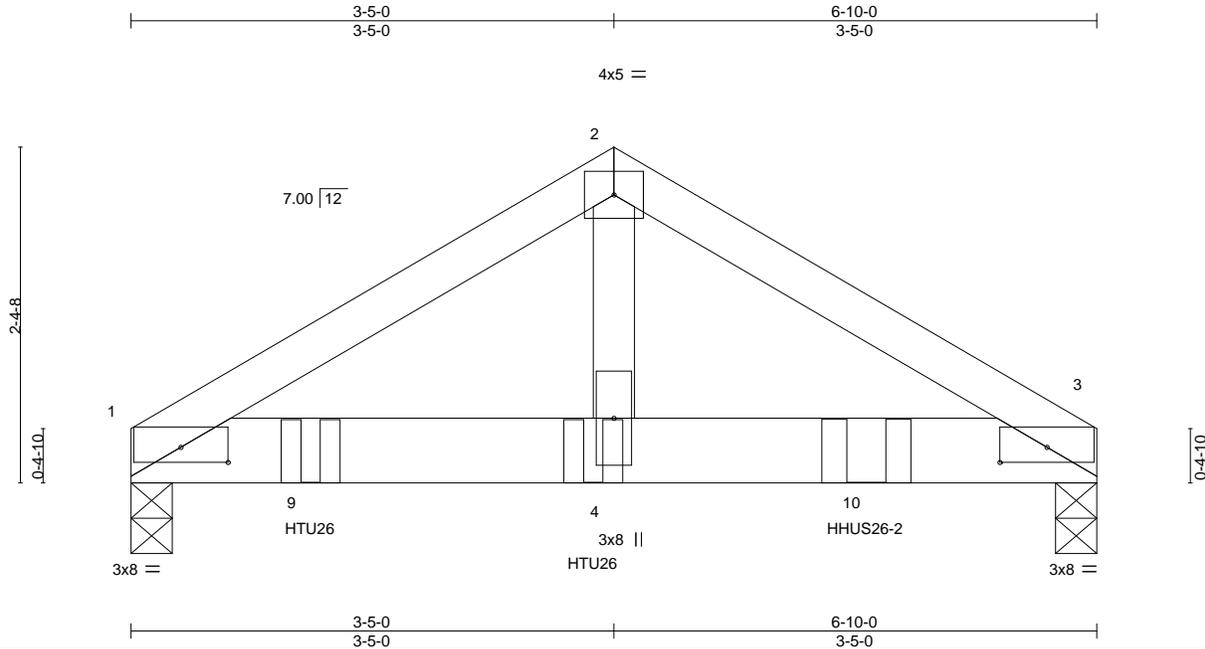
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com</p>
--	--



Job 4925663	Truss T32	Truss Type Common Girder	Qty 1	Ply 2	SMITH RES. T39067992
----------------	--------------	-----------------------------	----------	----------	-------------------------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:42 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ohEm7O862oaUh2iC?a6SNMumdwVHw1nxceNOMsyMrQd



Scale = 1:16.2

Plate Offsets (X,Y)--	[1:0-4-0,0-1-5], [3:0-4-0,0-1-5]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.22	Vert(LL) -0.02	4-8	>999	240	MT20	244/190	
TCDL 10.0	Lumber DOL 1.25	BC 0.68	Vert(CT) -0.04	4-8	>999	180			
BCLL 0.0 *	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.01	3	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP							
								Weight: 61 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

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

**REACTIONS.** (size) 1=0-3-8, 3=0-3-8  
Max Horz 1=49(LC 26)  
Max Uplift 1=-564(LC 8), 3=-712(LC 9)  
Max Grav 1=1478(LC 1), 3=1862(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-2194/841, 2-3=-2171/832  
BOT CHORD 1-4=-697/1871, 3-4=-697/1871  
WEBS 2-4=-756/1956

**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 0-7-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=564, 3=712.
- Use Simpson Strong-Tie HTU26 (10-10d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-3-4 from the left end to 3-3-4 to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 5-2-7 from the left end 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

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

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

November 4, 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.**

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 4925663	Truss T32	Truss Type Common Girder	Qty 1	Ply <b>2</b>	SMITH RES. Job Reference (optional)	T39067992
----------------	--------------	-----------------------------	----------	-----------------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:42 2025 Page 2  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ohEm7O862oaUh2iC?a6SNMumdwVHw1nxceNOMsyMrQd

**LOAD CASE(S)** Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-60, 2-3=-60, 1-3=-20  
Concentrated Loads (lb)  
Vert: 4=-687(B) 9=-624(B) 10=-1484(B)

**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](http://www.tpinst.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 4925663	Truss T32G	Truss Type Common Supported Gable	Qty 1	Ply 1	SMITH RES. T39067993
----------------	---------------	--------------------------------------	----------	----------	-------------------------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:42 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-ohEm7O862oaUh2iC?a6SNMunjwe2w6kxceNOMsyMrQd

Job Reference (optional)



Scale = 1:18.3

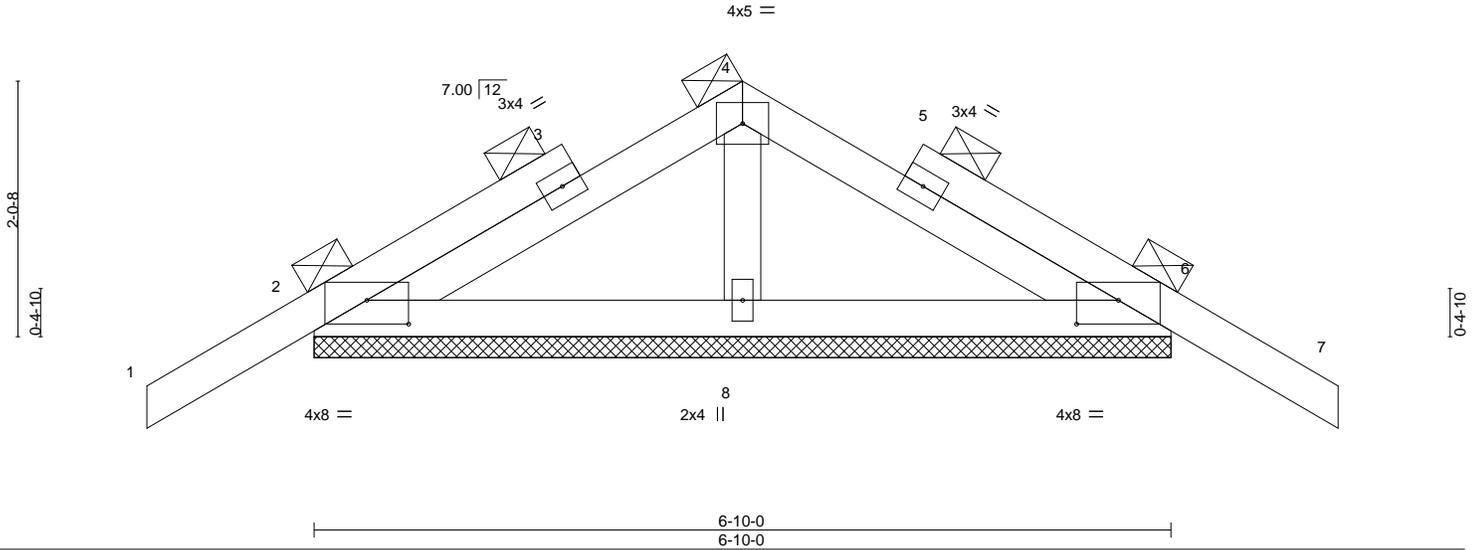


Plate Offsets (X,Y)--	[2:0-4-0,0-2-5], [6:0-4-0,0-2-5]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.15	Vert(LL) 0.00 6 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.12	Vert(CT) -0.00 6 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P		Weight: 34 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** (size) 2=6-10-0, 6=6-10-0, 8=6-10-0  
 Max Horz 2=60(LC 11)  
 Max Uplift 2=-70(LC 12), 6=-78(LC 13), 8=-61(LC 12)  
 Max Grav 2=206(LC 25), 6=206(LC 26), 8=313(LC 1)

**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, 6, 8.
  - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
  - 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

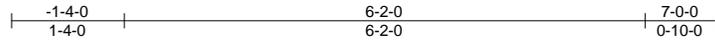
Philip J. O'Regan PE No.58126  
 MiTek Inc. DBA MiTek USA FL Cert 6634  
 16023 Swingley Ridge Rd. Chesterfield, MO 63017  
 Date:

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	<p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T33	Truss Type Common	Qty 3	Ply 1	SMITH RES. Job Reference (optional)	T39067994
----------------	--------------	----------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:43 2025 Page 1  
 ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Hto8Kk9kp5iLJCHOYHehvZRvbKwWfYG5r17yulyMrQc



Scale = 1:27.1

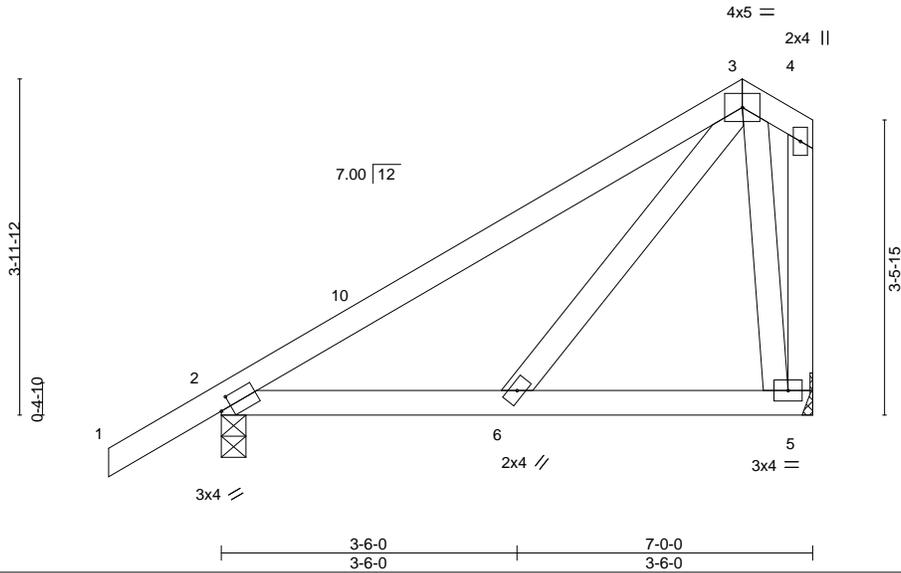


Plate Offsets (X,Y)--	[2:0-1-8,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) 0.02 6-9 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.36	Vert(CT) -0.03 6-9 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 41 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=0-3-8, 5=Mechanical  
 Max Horz 2=156(LC 12)  
 Max Uplift 2=-86(LC 12), 5=-101(LC 12)  
 Max Grav 2=362(LC 1), 5=268(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-300/62  
 WEBS 3-5=-374/318

**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 1-4-0 to 1-8-0, Zone1 1-8-0 to 6-2-0, Zone3 6-2-0 to 6-10-4 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.
- 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) 2 except (jt=lb) 5=101.

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

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

November 4, 2025

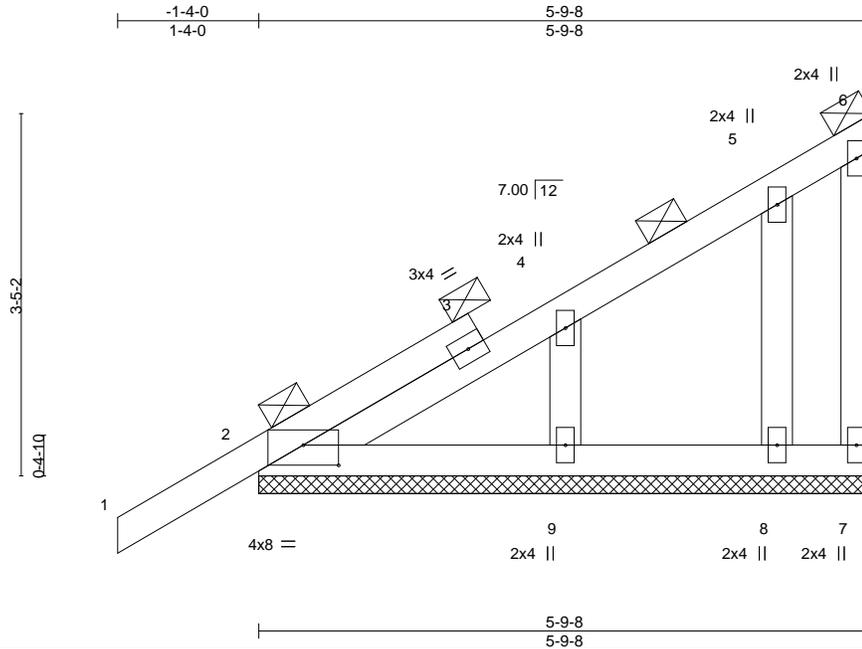
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.        Chesterfield, MO 63017        314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T33G	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	SMITH RES. Job Reference (optional)	T39067995
----------------	---------------	---	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:43 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-Hto8Kk9kp5iLJCHOYHehvZRyLK\_5fZ\_5r17yulyMrQc



Scale = 1:21.7

Plate Offsets (X,Y)--	[2:0-4-0,0-2-5]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00		n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-P					Weight: 33 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, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 5-9-8.  
(lb) - Max Horz 2=140(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 7, 9, 8  
Max Grav All reactions 250 lb or less at joint(s) 2, 7, 9, 8

**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, 7, 9, 8.
- 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 ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

November 4, 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)

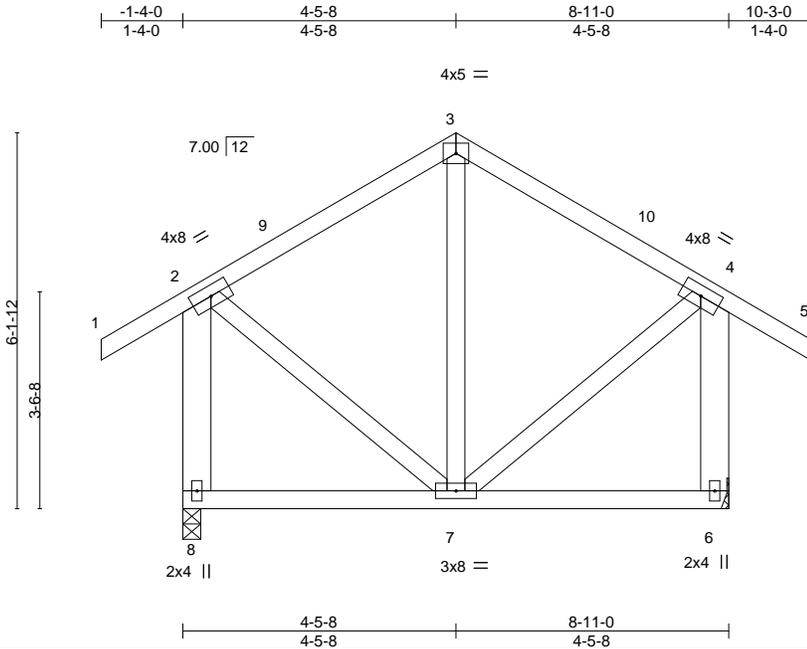
**MiTek®**

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

Job 4925663	Truss T34	Truss Type Common	Qty 2	Ply 1	SMITH RES. Job Reference (optional)	T39067996
----------------	--------------	----------------------	----------	----------	--	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:44 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-I4MWY49MaPqCwMsa6?9wSznz6IKl\_OODE4ysVQlyMrQb



Scale = 1:37.5

Plate Offsets (X,Y)--	[4:0-0-0,0-0-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.21	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.01	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	6	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 72 lb	FT = 20%

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

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

**REACTIONS.** (size) 8=0-3-8, 6=Mechanical  
Max Horz 8=205(LC 11)  
Max Uplift 8=-120(LC 12), 6=-120(LC 13)  
Max Grav 8=432(LC 1), 6=432(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-394/369, 4-6=-394/369

**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 -1-4-0 to 1-8-0, Zone1 1-8-0 to 4-5-8, Zone2 4-5-8 to 8-8-4, Zone1 8-8-4 to 10-3-0 zone; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 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 (jt=lb) 8=120, 6=120.

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

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

November 4,2025

**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 4925663	Truss T34G	Truss Type GABLE	Qty 1	Ply 1	SMITH RES.	T39067997
----------------	---------------	---------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:44 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-I4MWY49MaPqCwMsa6?9wSnz7IKI\_OOFE4ysVQlyMrQb



4x5 =

Scale = 1:35.5

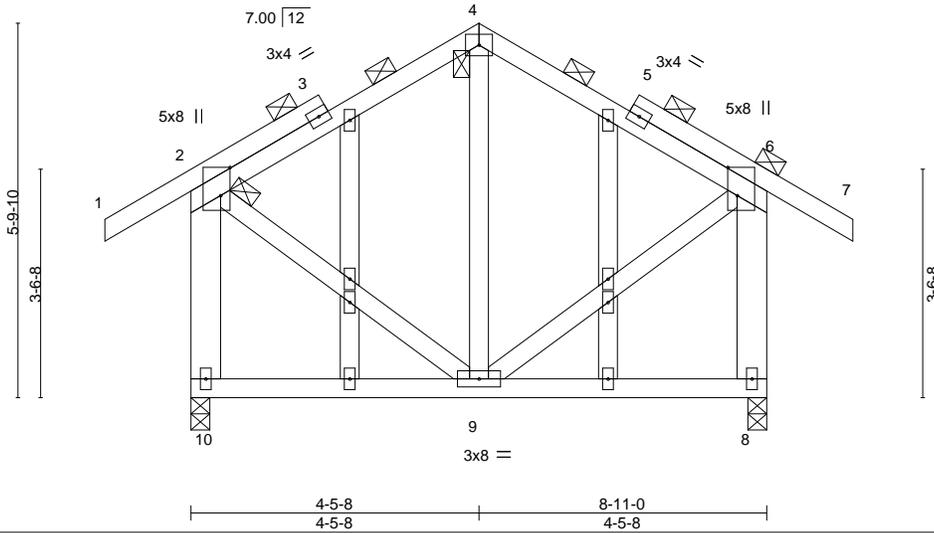


Plate Offsets (X,Y)--	[2:0-5-4,0-1-12], [6:0-5-4,0-1-12], [16:0-0-0,0-0-0], [16:0-0-0,0-0-0]
-----------------------	--

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 0.18	Vert(LL)	-0.01	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.01	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 88 lb	FT = 20%

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

**REACTIONS.** (size) 10=0-3-8, 8=0-3-8  
 Max Horz 10=190(LC 11)  
 Max Uplift 10=121(LC 12), 8=121(LC 13)  
 Max Grav 10=432(LC 1), 8=432(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-10=393/350, 6-8=394/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - 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.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=121, 8=121.
  - 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.

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

November 4, 2025

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T35	Truss Type Roof Special Girder	Qty 1	Ply 1	SMITH RES.	T39067998
----------------	--------------	-----------------------------------	----------	----------	------------	-----------

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:45 2025 Page 1

ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-DGwulPA\_Ljz3YWRmgig9\_WFs7YK71?Njcc3zByMrQa

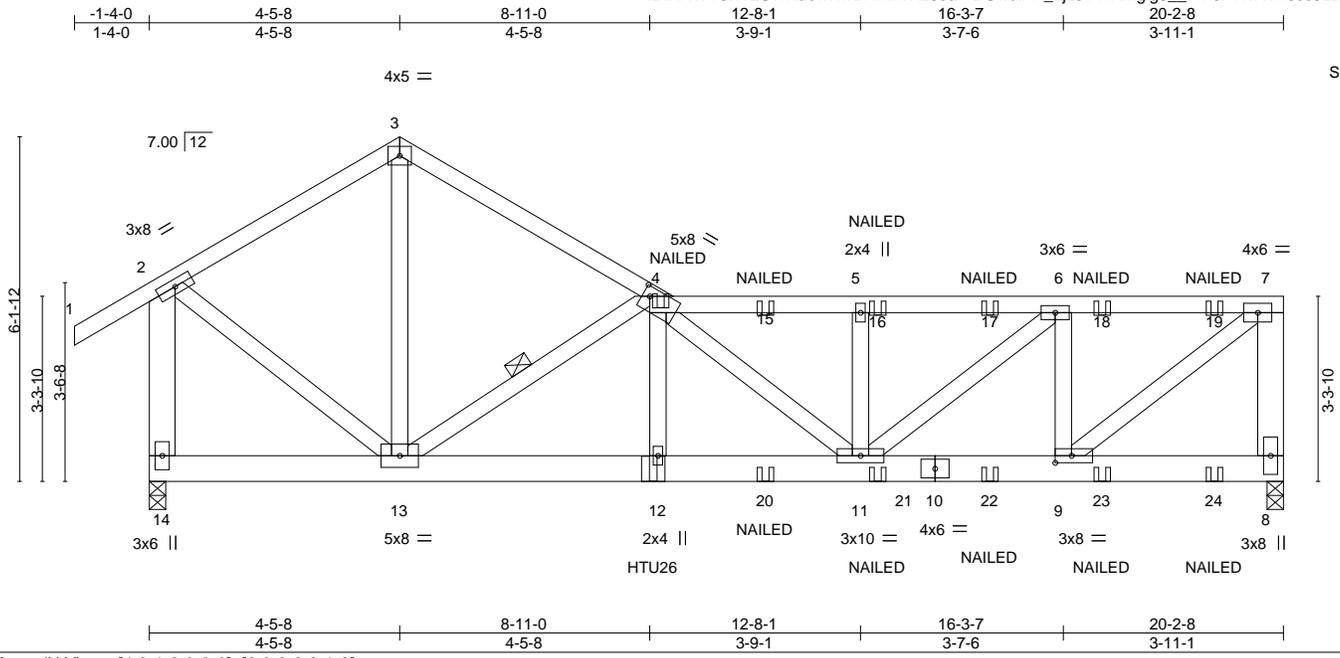


Plate Offsets (X,Y)--	[4:0-1-8,0-2-0], [9:0-3-8,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFLL</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.35	Vert(LL) 0.10 11-12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.53	Vert(CT) -0.15 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.73	Horz(CT) 0.03 8 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 149 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-10-12 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-8,2-14: 2x6 SP No.2	WEBS 1 Row at midpt 4-13

**REACTIONS.** (size) 8=0-3-8, 14=0-3-8  
 Max Horz 14=-188(LC 6)  
 Max Uplift 8=-754(LC 5), 14=-437(LC 8)  
 Max Grav 8=1437(LC 1), 14=1333(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-988/396, 3-4=-988/405, 4-5=-2403/1147, 5-6=-2397/1143, 6-7=-1541/765, 7-8=-1346/702, 2-14=-1295/444  
 BOT CHORD 12-13=-1150/2562, 11-12=-1147/2553, 9-11=-811/1541  
 WEBS 3-13=-390/688, 4-13=-2111/916, 4-12=-186/557, 5-11=-408/260, 6-11=-487/1102, 6-9=-1048/524, 7-9=-970/1906, 2-13=-409/984

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=754, 14=437.
  - Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss) or equivalent at 8-11-12 from the left end to connect truss(es) to back face of bottom chord.
  - Fill all nail holes where hanger is in contact with lumber.
  - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
  - 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

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:

November 4, 2025

Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>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 <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcsccomponents.com)</p>	 <p>16023 Swingley Ridge Rd.          Chesterfield, MO 63017          314.434.1200 / MiTek-US.com</p>
--	--

Job 4925663	Truss T35	Truss Type Roof Special Girder	Qty 1	Ply 1	SMITH RES.  Job Reference (optional)	T39067998
----------------	--------------	-----------------------------------	----------	----------	--	-----------

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

8.830 s Sep 3 2025 MiTek Industries, Inc. Mon Nov 3 15:57:45 2025 Page 2  
ID:RRWY3H?ZSWKaowNwDNMhTAz6oa1-DGwulPA\_Ljz3YWRmgig9\_\_WFs7YK7I?NJcc3zByMrQa

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 4=-76(B) 12=-487(B) 15=-66(B) 16=-66(B) 17=-66(B) 18=-66(B) 19=-66(B) 20=-41(B) 21=-41(B) 22=-41(B) 23=-41(B) 24=-41(B)

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

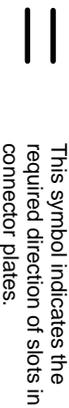
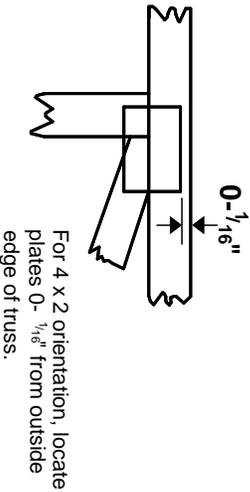
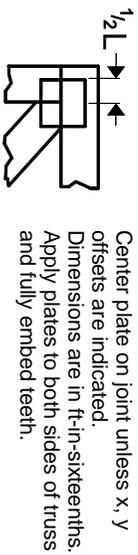
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

# Symbols

## PLATE LOCATION AND ORIENTATION

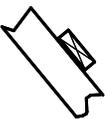


\* Plate location details available in MITtek software or upon request.

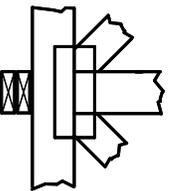
## PLATE SIZE

**4 X 4**  
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



## BEARING

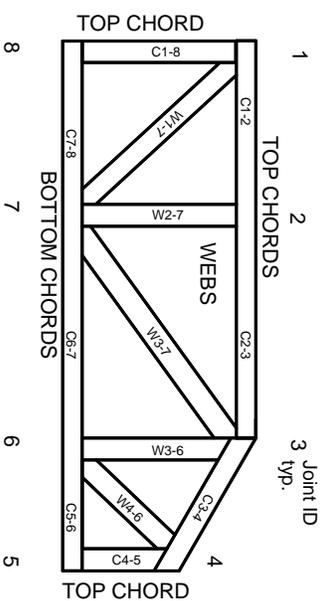


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

### Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



**JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.**  
**CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.**

## Product Code Approvals

ICC-ES Reports:

ESR-1-1988, 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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

© 2023 MITtek® All Rights Reserved

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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

# MITek®

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