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

RE: 4384572 - LOT 56 CW

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

Site Information:

Customer Info: GIEBEIG CONST. Project Name: Spec House Model: St. Johns Modified
Lot/Block: 56 Subdivision: Crosswinds
Address: TBD, TBD
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

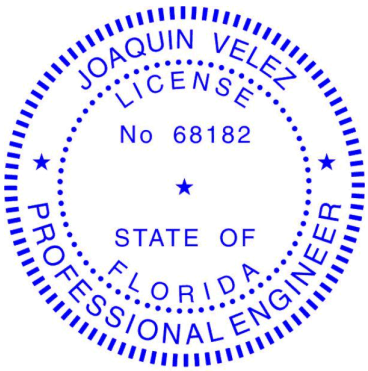
This package includes 28 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35877865	CJ01	12/20/24	15	T35877879	T02G	12/20/24
2	T35877866	CJ03	12/20/24	16	T35877880	T03	12/20/24
3	T35877867	CJ05	12/20/24	17	T35877881	T04	12/20/24
4	T35877868	EJ01	12/20/24	18	T35877882	T05	12/20/24
5	T35877869	EJ02	12/20/24	19	T35877883	T06	12/20/24
6	T35877870	EJ03	12/20/24	20	T35877884	T07	12/20/24
7	T35877871	HJ08	12/20/24	21	T35877885	T08	12/20/24
8	T35877872	HJ10	12/20/24	22	T35877886	T09	12/20/24
9	T35877873	PB01	12/20/24	23	T35877887	T10	12/20/24
10	T35877874	PB02	12/20/24	24	T35877888	T11	12/20/24
11	T35877875	PB03	12/20/24	25	T35877889	T12	12/20/24
12	T35877876	PB03G	12/20/24	26	T35877890	T13	12/20/24
13	T35877877	T01	12/20/24	27	T35877891	T14	12/20/24
14	T35877878	T01G	12/20/24	28	T35877892	T14G	12/20/24

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

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.



Joaquin Velez PE No.68182
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.

December 20,2024

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	CJ01	Jack-Open	8	1	T35877865
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:02 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-N_ziPvEW8?bl7BTJtZtVV63avGLWpgZ2VOjWpuy7Mo?

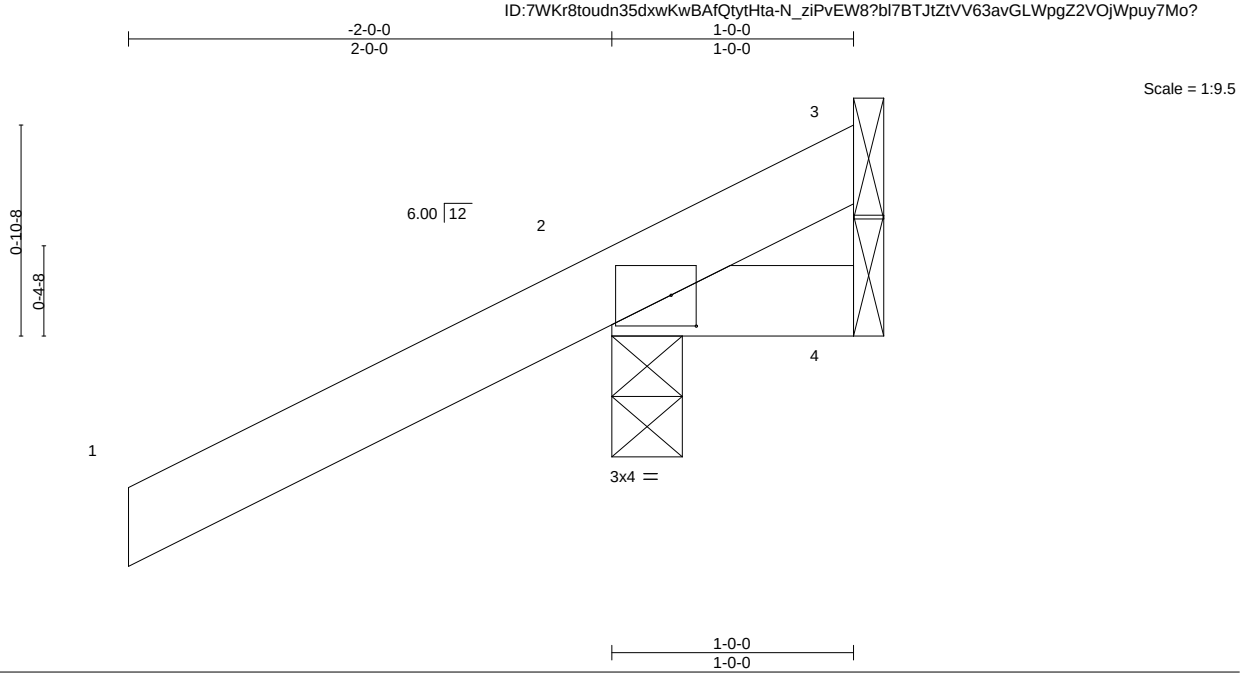


Plate Offsets (X,Y)-- [2:0-1-4,0-1-9]

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	0.31	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	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: 7 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=52(LC 12)
Max Uplift 3=-27(LC 1), 2=-120(LC 12), 4=-46(LC 1)
Max Grav 3=19(LC 16), 2=254(LC 1), 4=33(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; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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 27 lb uplift at joint 3, 120 lb uplift at joint 2 and 46 lb uplift at joint 4.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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.sbcscomponents.com)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	CJ03	Jack-Open	8	1	T35877866
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:03 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-rAX5dFF8vIjclL2WRHPk2JblffhmY7pBk2S3MKy7Mo_

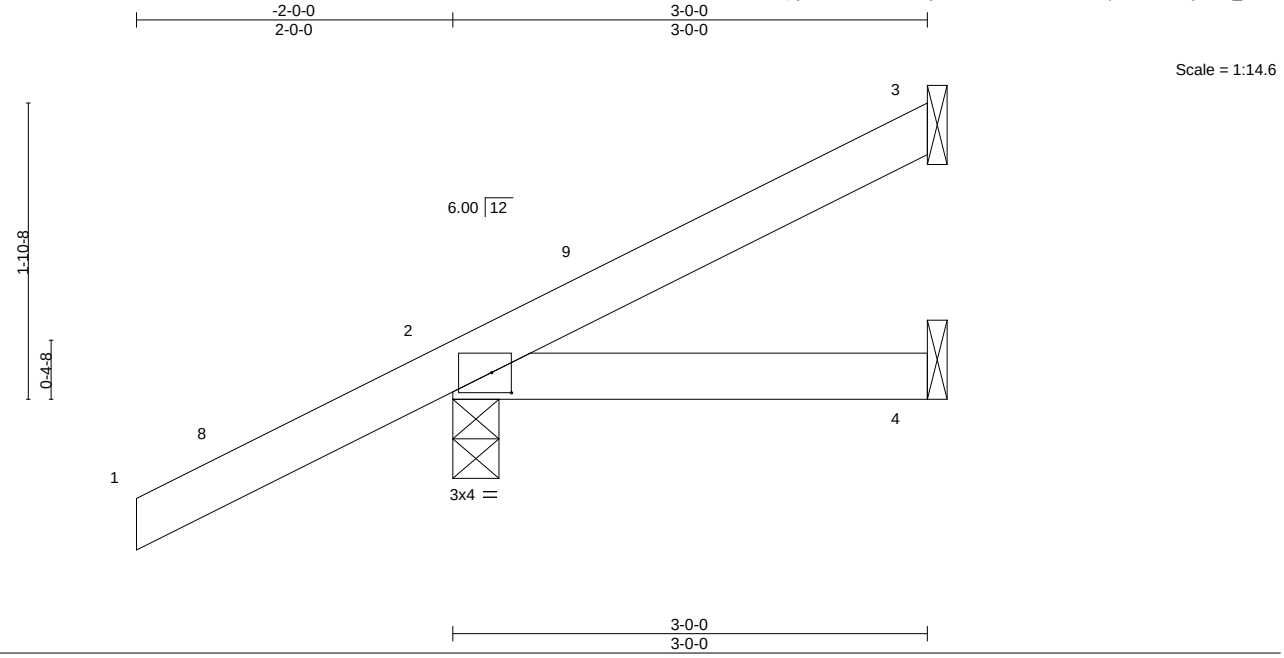

Plate Offsets (X,Y)-- [2:0-1-8,0-1-9]

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	0.31	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	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	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 13 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=90(LC 12)
Max Uplift 3=-36(LC 12), 2=-91(LC 12), 4=-16(LC 9)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 91 lb uplift at joint 2 and 16 lb uplift at joint 4.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	CJ05	Jack-Open	4	1	T35877867
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:03 2024 Page 1
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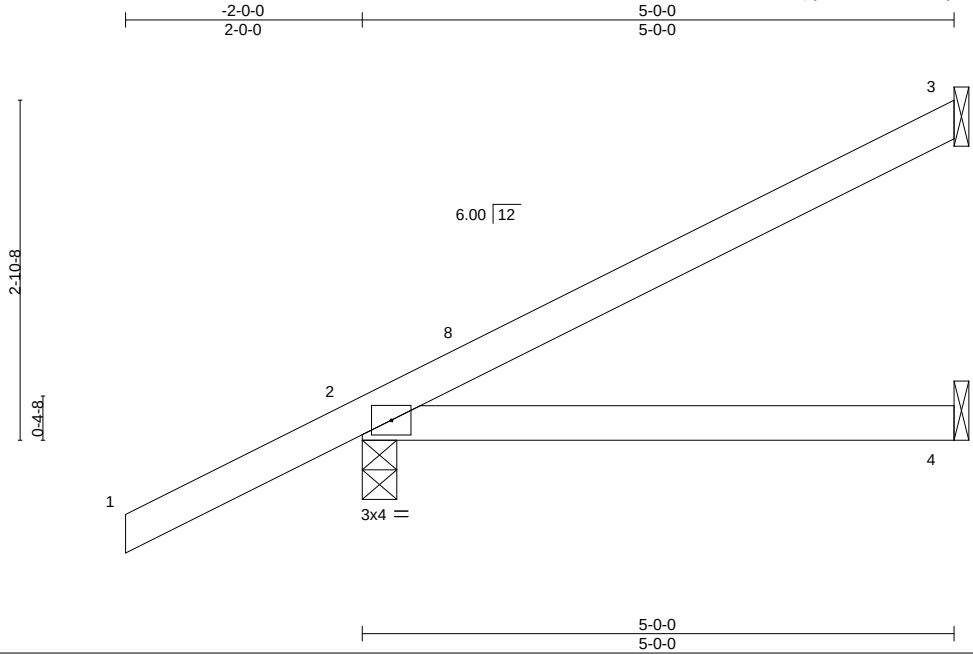

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-97(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 3 and 97 lb uplift at joint 2.

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	EJ01	Jack-Partial	11	1	T35877868
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:04 2024 Page 1
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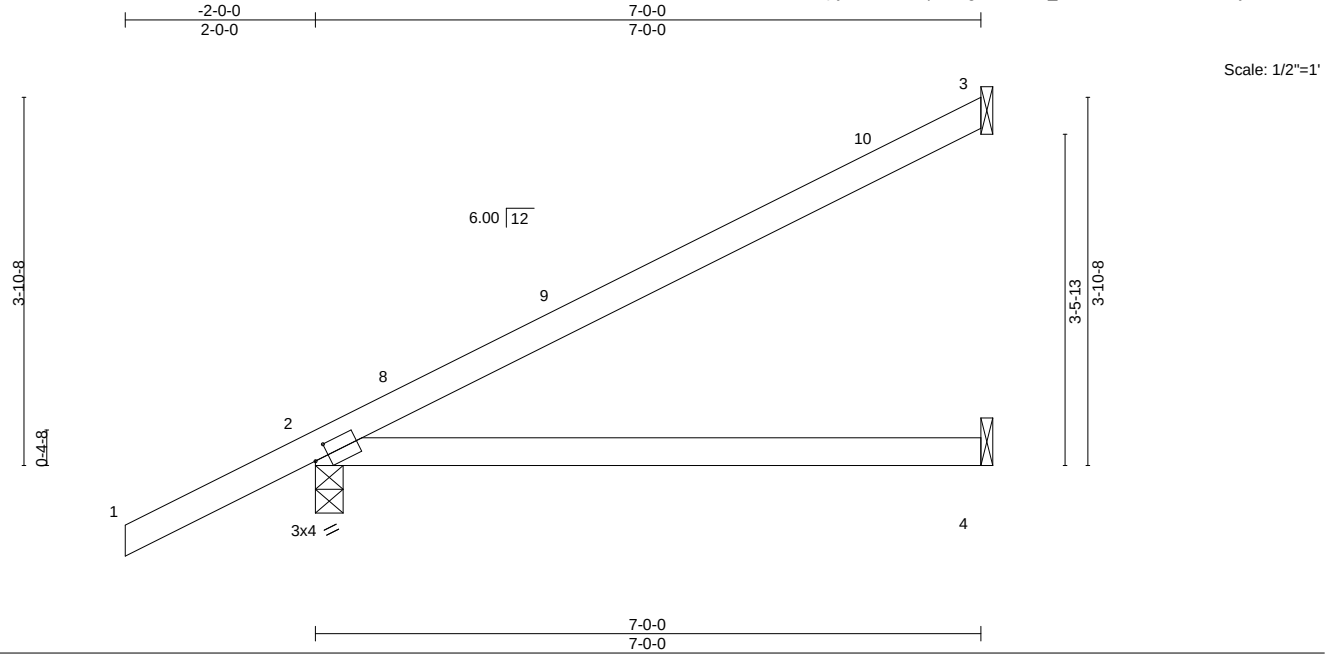

Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.10	4-7	>839	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>393	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: 26 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=161(LC 12)
Max Uplift 3=-97(LC 12), 2=-110(LC 12)
Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(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 -2-0-0 to 1-0-0, Zone1 1-0-0 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 97 lb uplift at joint 3 and 110 lb uplift at joint 2.

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

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
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Date:
December 20,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	EJ02	Jack-Partial	10	1	T35877869
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:04 2024 Page 1
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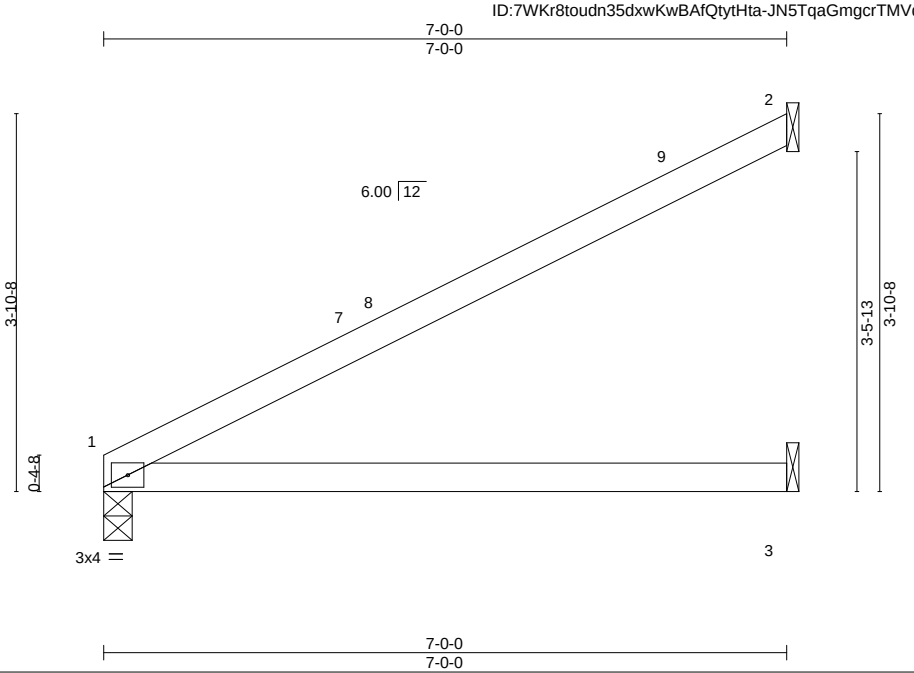

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.13	3-6	>645	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.23	3-6	>358	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 22 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) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=128(LC 12)
Max Uplift 1=-51(LC 12), 2=-102(LC 12), 3=-4(LC 12)
Max Grav 1=257(LC 1), 2=168(LC 1), 3=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 0-0-0 to 3-0-0, Zone1 3-0-0 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 51 lb uplift at joint 1, 102 lb uplift at joint 2 and 4 lb uplift at joint 3.

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

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Date:
December 20,2024

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

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	EJ03	Jack-Partial	3	1	T35877870
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:05 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-nZfr2wGPRwzJ_fCuYiRC7kh58TLi01JUBLxAPDy7Mny

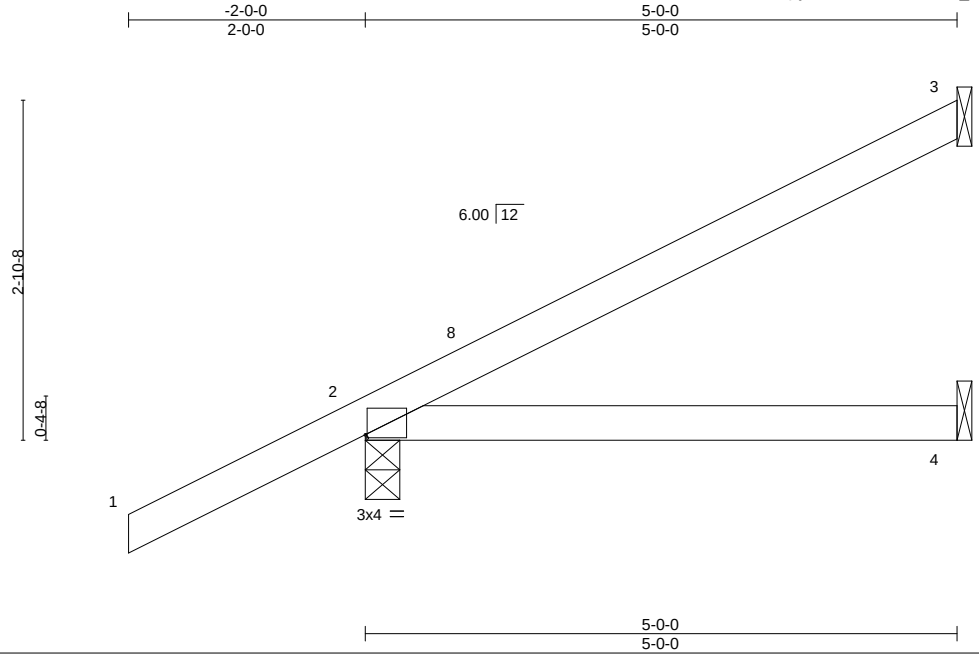

Plate Offsets (X,Y)-- [2:0-0-3,0-0-5]

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	0.31	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	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: 19 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=128(LC 12)
Max Uplift 3=-74(LC 12), 2=-97(LC 12), 4=-32(LC 9)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(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 -2-0-0 to 1-0-0, Zone1 1-0-0 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 74 lb uplift at joint 3, 97 lb uplift at joint 2 and 32 lb uplift at joint 4.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:
December 20,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	HJ08	Diagonal Hip Girder	2	1	T35877871
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:05 2024 Page 1
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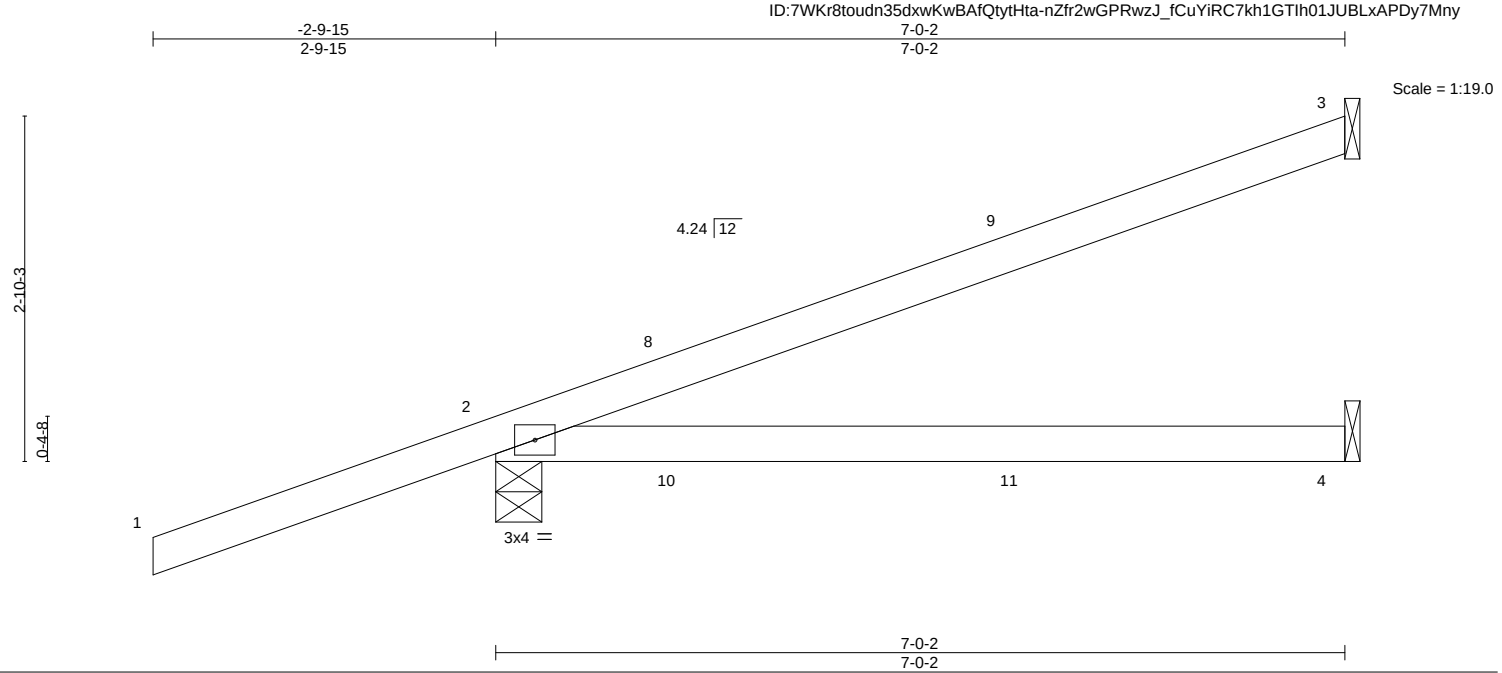

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.10	4-7	>814	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.14	4-7	>583	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 26 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=0-4-9, 4=Mechanical
Max Horz 2=146(LC 25)
Max Uplift 3=-89(LC 8), 2=-199(LC 4), 4=-41(LC 5)
Max Grav 3=140(LC 1), 2=346(LC 1), 4=109(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; 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 89 lb uplift at joint 3, 199 lb uplift at joint 2 and 41 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-6-1, 63 lb down and 103 lb up at 1-6-1, and 22 lb down and 41 lb up at 4-4-0, and 22 lb down and 41 lb up at 4-4-0 on top chord, and 51 lb down and 74 lb up at 1-6-1, 51 lb down and 74 lb up at 1-6-1, and 45 lb down and 23 lb up at 4-4-0, and 45 lb down and 23 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=50(F=25, B=25) 10=70(F=35, B=35) 11=5(F=2, B=2)

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	HJ10	Diagonal Hip Girder	2	1	T35877872
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:06 2024 Page 1
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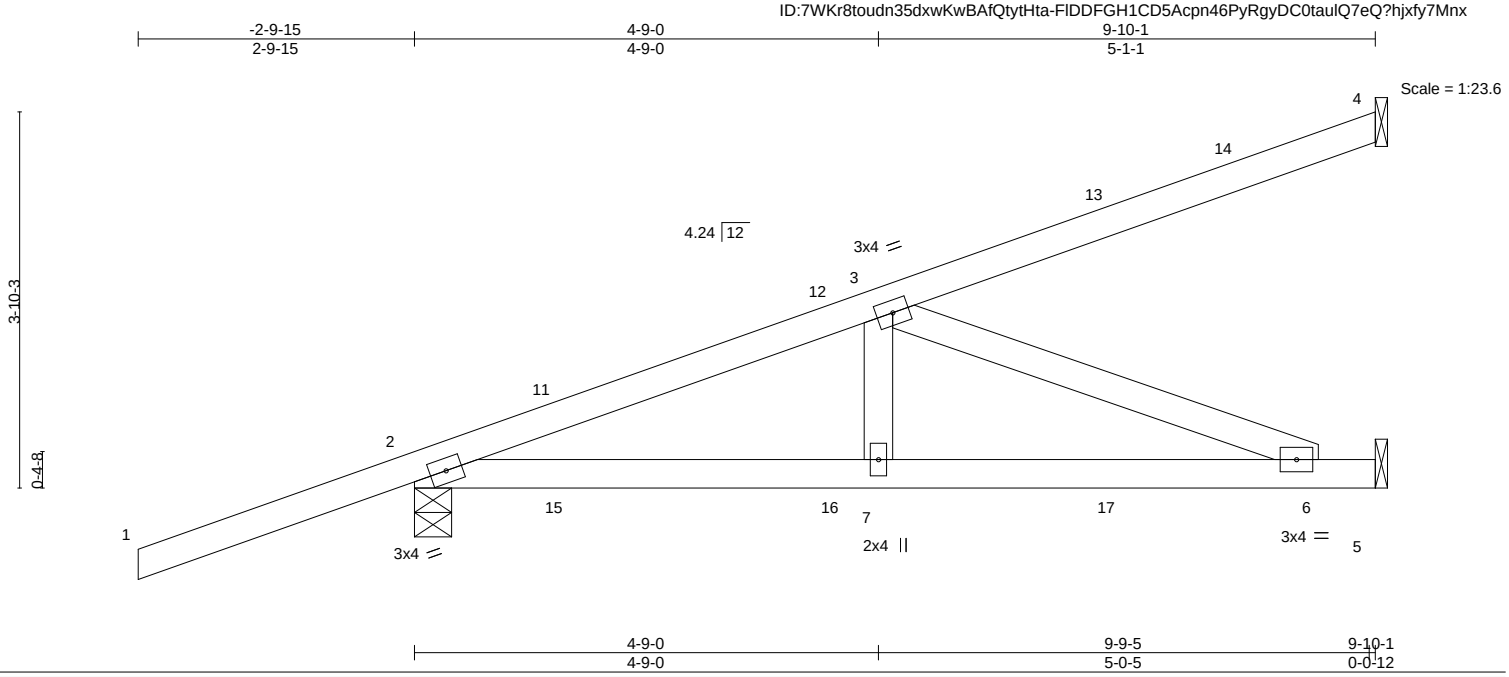

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.13	6-7	>922	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=180(LC 4)
Max Uplift 4=-172(LC 4), 2=-231(LC 4), 5=-81(LC 8)
Max Grav 4=268(LC 1), 2=463(LC 1), 5=267(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-612/242
BOT CHORD 2-7=-279/552, 6-7=-279/552
WEBS 3-7=-14/260, 3-6=-593/299

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 172 lb uplift at joint 4, 231 lb uplift at joint 2 and 81 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-6-1, 63 lb down and 103 lb up at 1-6-1, 22 lb down and 41 lb up at 4-4-0, 22 lb down and 41 lb up at 4-4-0, 44 lb down and 84 lb up at 7-1-15, and 44 lb down and 84 lb up at 7-1-15, and 124 lb down and 103 lb up at 9-9-5 on top chord, and 25 lb down and 74 lb up at 1-6-1, 25 lb down and 74 lb up at 1-6-1, 19 lb down and 23 lb up at 4-4-0, 19 lb down and 23 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
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=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 4=-124(F) 11=50(F=25, B=25) 13=-64(F=-32, B=-32) 15=70(F=35, B=35) 16=5(F=2, B=2) 17=-49(F=-24, B=-24)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	PB01	Piggyback	1	1	T35877873
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:07 2024 Page 1
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10-8-0
10-8-0

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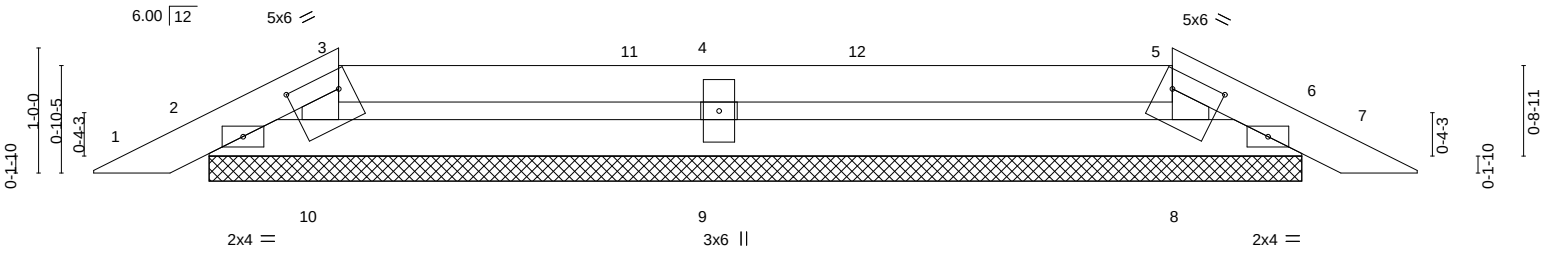

10-8-0
10-8-0

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

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	0.13	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 30 lb	FT = 20%

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

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

REACTIONS. All bearings 8-8-14.
(lb) - Max Horz 2=12(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 10, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=285(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 0-4-3 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 8-8-0, Zone3 8-8-0 to 10-3-13 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, 6, 10, 8, 9.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	PB02	Piggyback	1	1	T35877874
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:07 2024 Page 1
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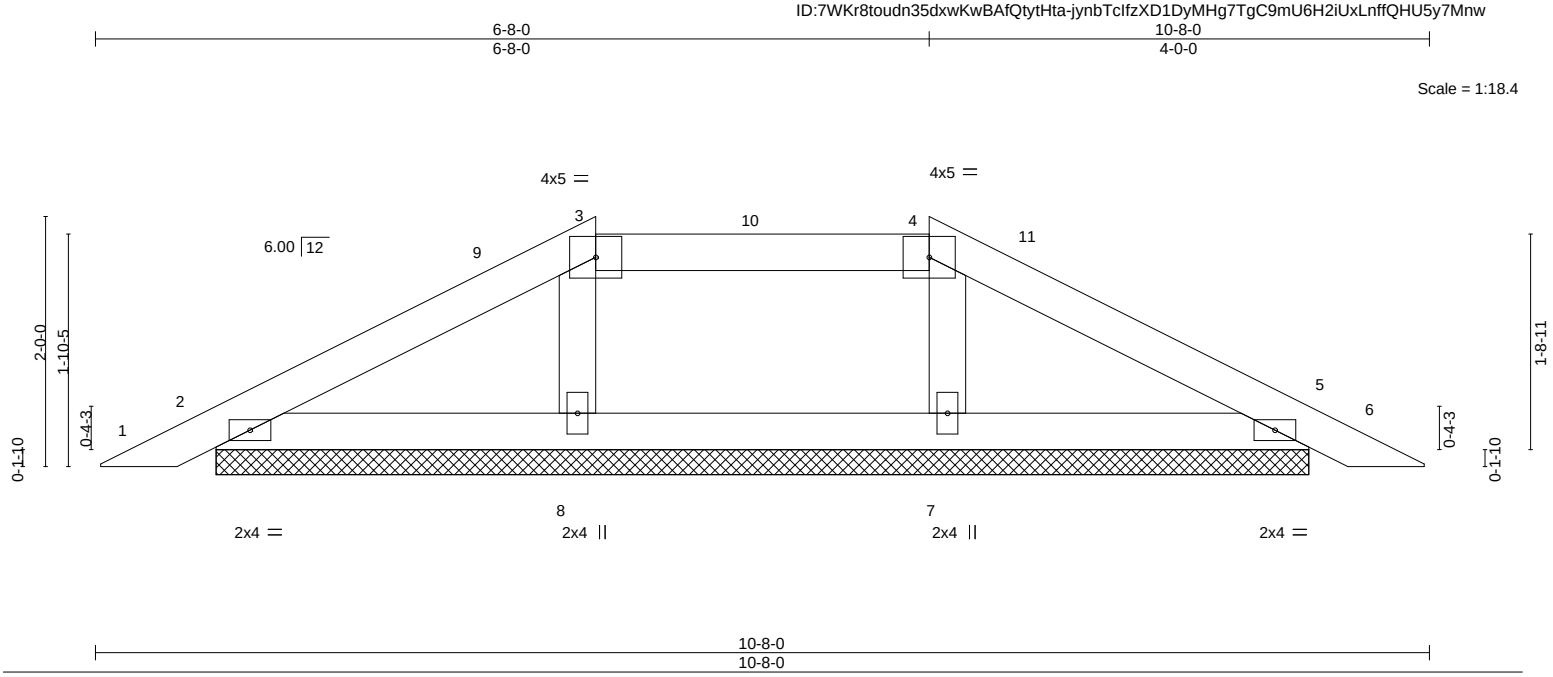

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 34 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-8-14.
(lb) - Max Horz 2=-29(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 7, 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 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-0-0, Zone3 4-0-0 to 10-3-13 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, 7, 8.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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December 20,2024

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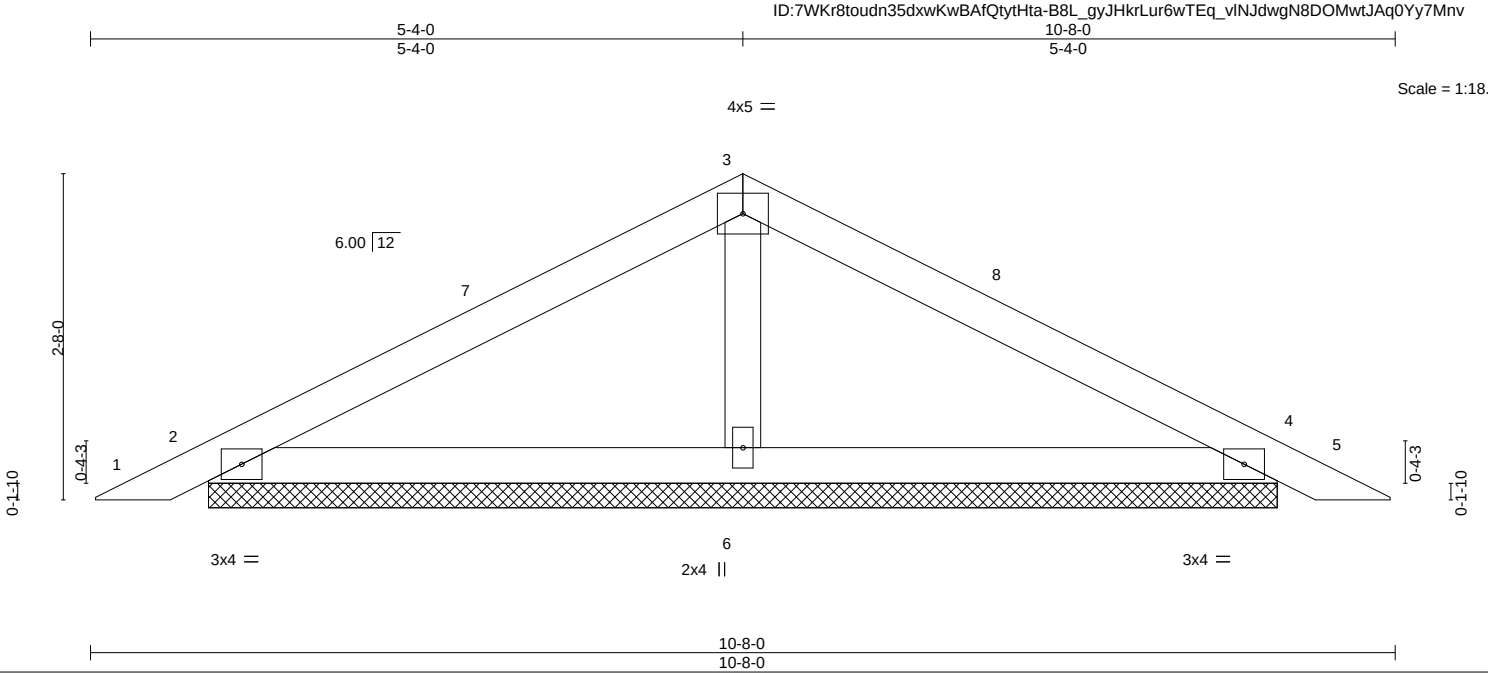
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	PB03	Piggyback	5	1	T35877875
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:08 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-B8L_gyJHkrLur6wTEq_vlNJdwgN8DOMwtJAq0Yy7Mnv



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	0.21	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.01	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 33 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=8-8-14, 4=8-8-14, 6=8-8-14
Max Horz 2=-42(LC 13)
Max Uplift 2=-67(LC 12), 4=-75(LC 13), 6=-64(LC 12)
Max Grav 2=184(LC 25), 4=184(LC 26), 6=348(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 0-4-3 to 3-4-3, Zone1 3-4-3 to 5-4-0, Zone2 5-4-0 to 9-8-7, Zone1 9-8-7 to 10-3-13 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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Chesterfield, MO 63017

Date:
December 20,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	PB03G	GABLE	1	1	T35877876
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:08 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-B8L_gyJHkrLur6wTEq_vlNJgKgPZDOEwtJAq0Yy7Mnv

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4-8-2 4-8-2

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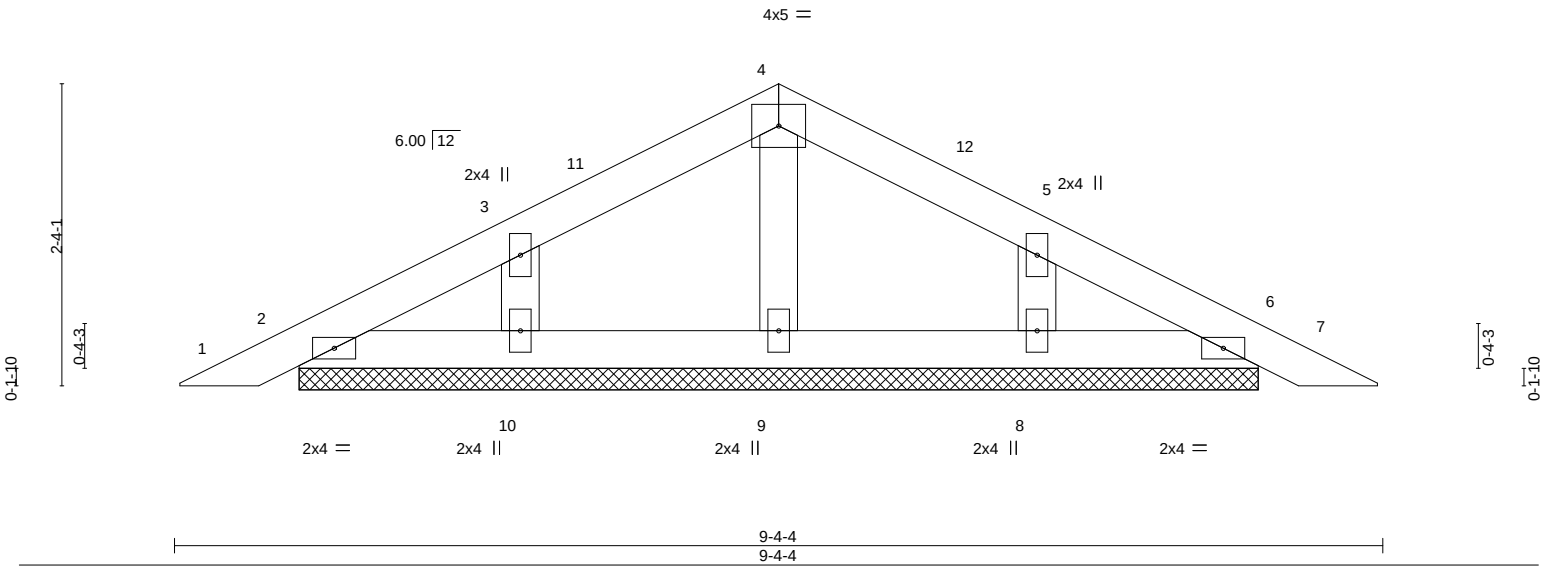

9-4-4
9-4-4

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	0.06	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 31 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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-5-2.
(lb) - Max Horz 2=-36(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 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 0-4-3 to 3-4-3, Zone1 3-4-3 to 4-8-2, Zone3 4-8-2 to 9-0-1 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, 9, 10, 8.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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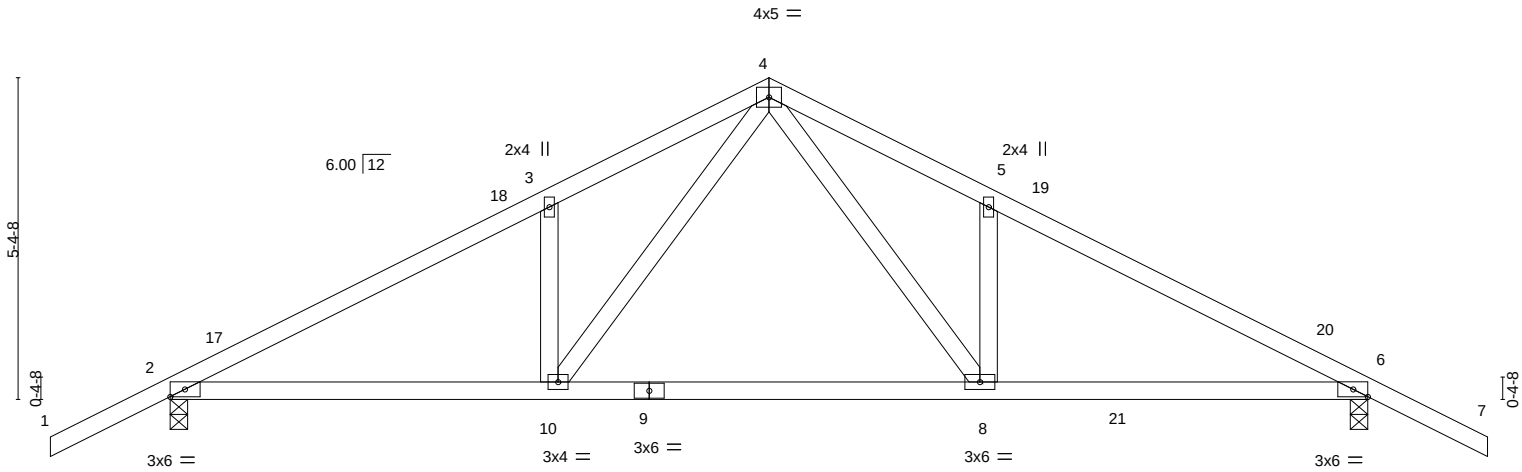
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T01	Common	6	1	T35877877
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:09 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-gKuMtlJvU8TlTGVfnYV8Harls4YgymQ46zvOY_y7Mnu

-2-0-0	6-4-0	10-0-0	13-8-0	20-0-0	22-0-0
2-0-0	6-4-0	3-8-0	3-8-0	6-4-0	2-0-0

Scale = 1:38.5



6-4-0	13-8-0	20-0-0
6-4-0	7-4-1	6-4-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.17	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.36	8-10	>664	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-8 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=100(LC 12)
Max Uplift 2=-324(LC 12), 6=-345(LC 13)
Max Grav 2=1102(LC 1), 6=1164(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1819/509, 3-4=-1796/598, 4-5=-1907/617, 5-6=-1928/534
BOT CHORD 2-10=-414/1559, 8-10=-229/1085, 6-8=-361/1659
WEBS 4-8=-370/989, 5-8=-273/209, 4-10=-315/820, 3-10=-269/208

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 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) 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=324, 6=345.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 10-11=-20, 10-21=-80(F=-60), 14-21=-20

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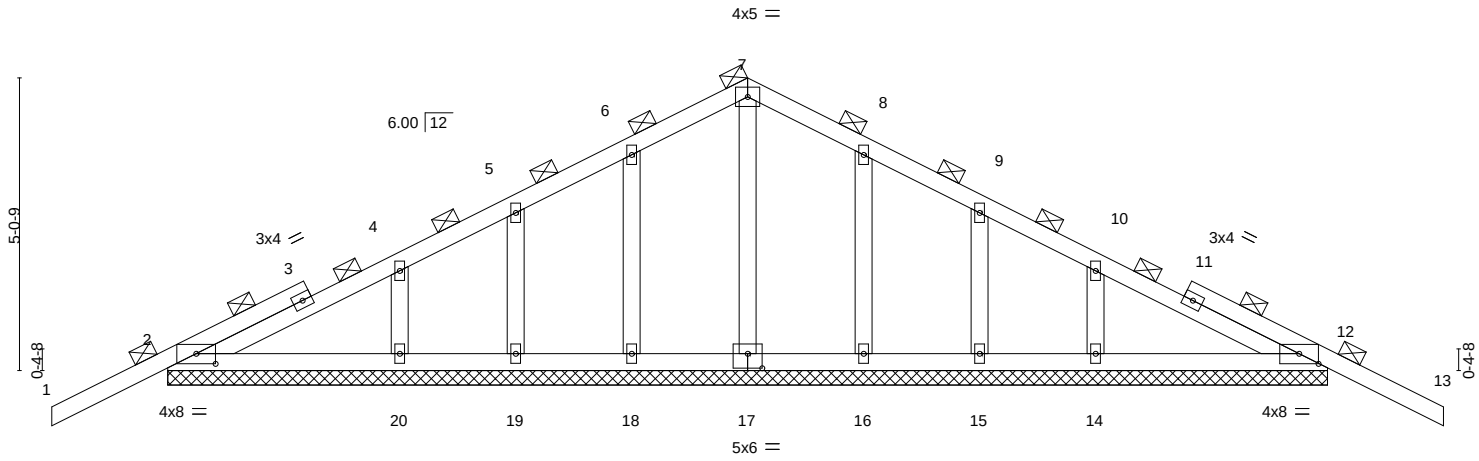
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T01G	Common Supported Gable	1	1	T35877878
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:09 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-gKuMtIJvU8TlTGVfnYV8Haro74kdyrX46zvOY_y7Mnu

-2-0-0 2-0-0 | 10-0-0 10-0-0 | 20-0-0 10-0-0 | 22-0-0 2-0-0

Scale = 1:39.7



20-0-0
20-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 105 lb	FT = 20%

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

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

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=-95(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(LC 26)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 20, 16, 15, 14.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T02G	Common Supported Gable	1	1	T35877879
					Job Reference (optional)

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ID:7WKr8toudn35dxwKwBAfQtytHta-8WSk5eKXFSbc4Q4sLF1NqoOxPU5phIxDLdfx4Qy7Mnt

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Scale = 1:28.3

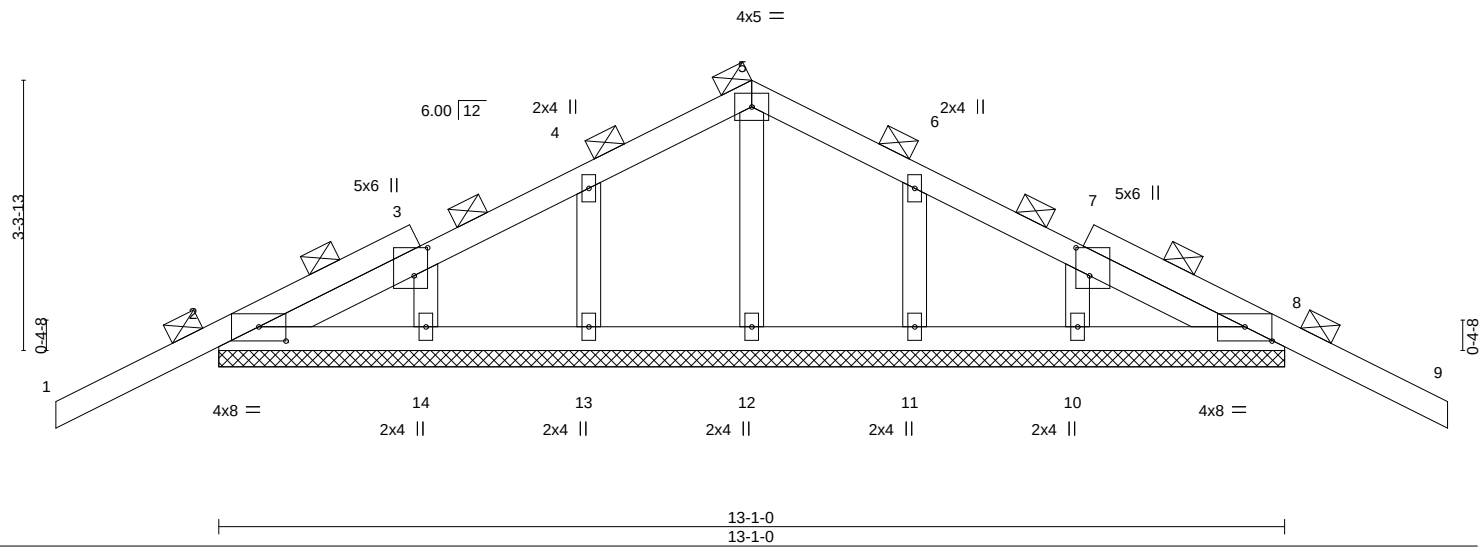

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [3:0-4-2,0-2-0], [7:0-4-2,0-2-0], [8:0-4-0,0-2-1]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.02	9	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.03	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: 66 lb	FT = 20%

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

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

REACTIONS. All bearings 13-1-0.
(lb) - Max Horz 2=-66(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

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

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Chesterfield, MO 63017
Date:
December 20,2024

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.sbcscomponents.com)

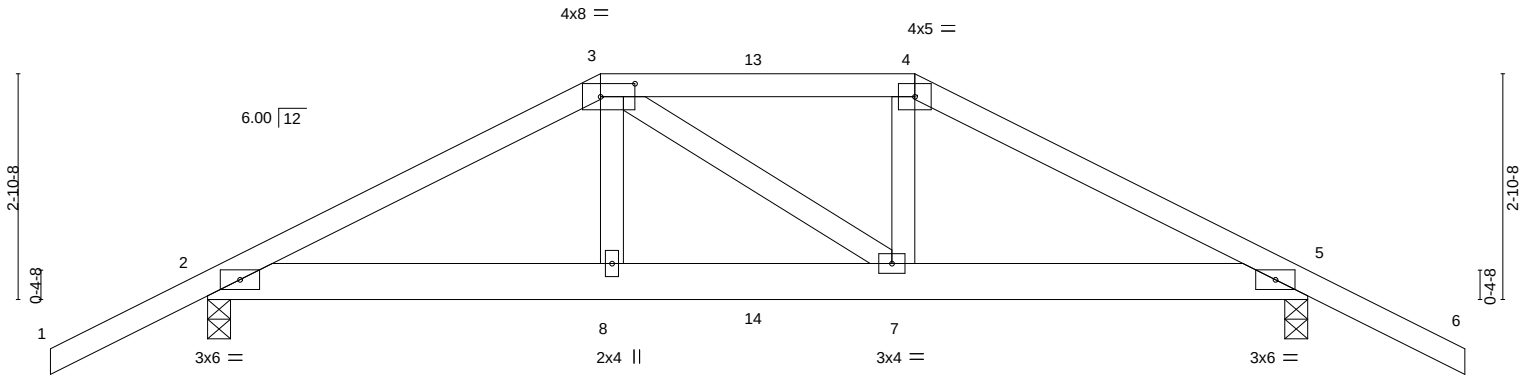
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T03	Hip Girder	1	1	T35877880
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:11 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-cj06I_L90mjTiaf2vyYcN?x57uNBQkxNaHPUdty7Mns

-2-0-0 2-0-0 | 5-0-0 5-0-0 | 9-0-0 4-0-0 | 14-0-0 5-0-0 | 16-0-0 2-0-0

Scale = 1:29.3



5-0-0 5-0-0 | 9-0-0 4-0-0 | 14-0-0 5-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 75 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 5-1-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-12 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=0-3-8
Max Horz 2=59(LC 8)
Max Uplift 2=-397(LC 8), 5=-402(LC 9)
Max Grav 2=808(LC 1), 5=826(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1189/672, 3-4=-1059/648, 4-5=-1226/699
BOT CHORD 2-8=-566/1017, 7-8=-574/1028, 5-7=-571/1050
WEBS 3-8=-126/315, 4-7=-93/302

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; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=397, 5=402.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 77 lb up at 5-0-0, and 54 lb down and 69 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 131 lb down and 100 lb up at 5-0-0, and 47 lb down and 46 lb up at 7-0-0, and 131 lb down and 100 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-54(F) 4=-118(F) 8=-61(F) 7=-61(F) 13=-54(F) 14=-33(F)

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

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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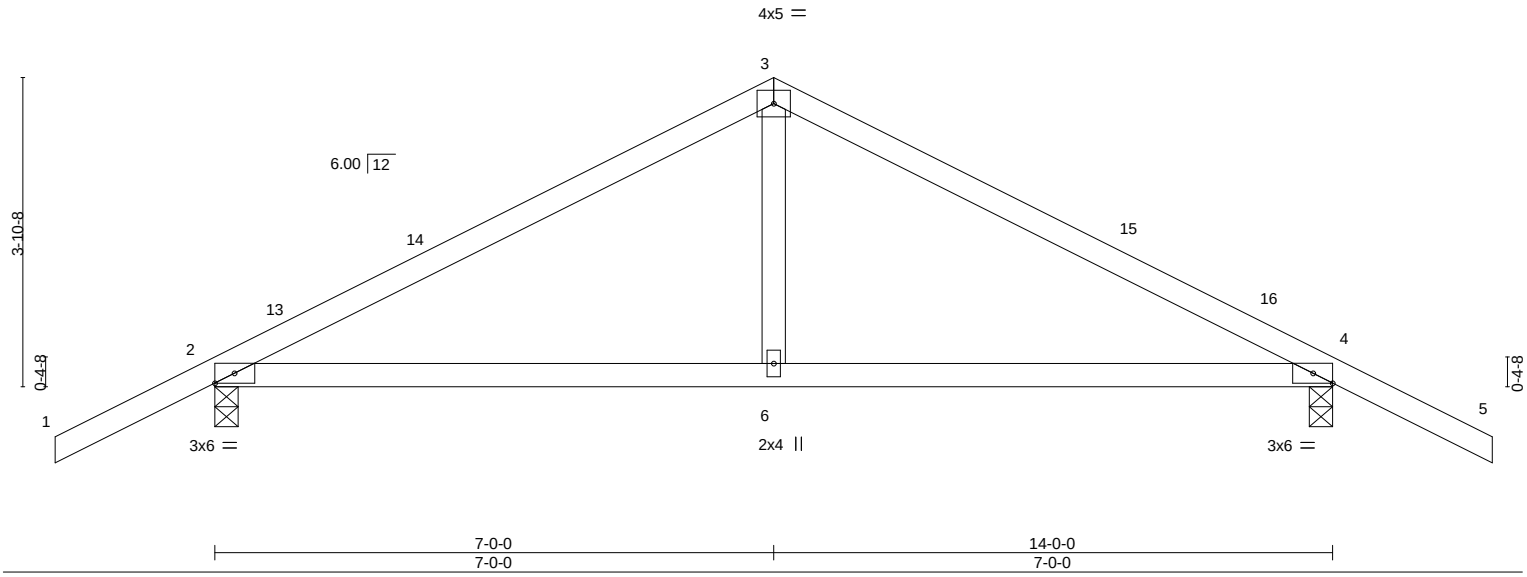
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T04	Common	3	1	T35877881
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:11 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-cj06I_L90mjTiaf2vyYcN?x3UuKyQkwNaHPUdty7Mns

-2-0-0 2-0-0 | 7-0-0 7-0-0 | 14-0-0 7-0-0 | 16-0-0 2-0-0

Scale = 1:28.9



7-0-0 7-0-0 | 14-0-0 7-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.08	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.12	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 56 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-75(LC 13)
Max Uplift 2=-185(LC 12), 4=-185(LC 13)
Max Grav 2=626(LC 1), 4=626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-700/425, 3-4=-700/425
BOT CHORD 2-6=-255/557, 4-6=-255/557
WEBS 3-6=-162/317

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 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 4=185.

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Date:
December 20,2024

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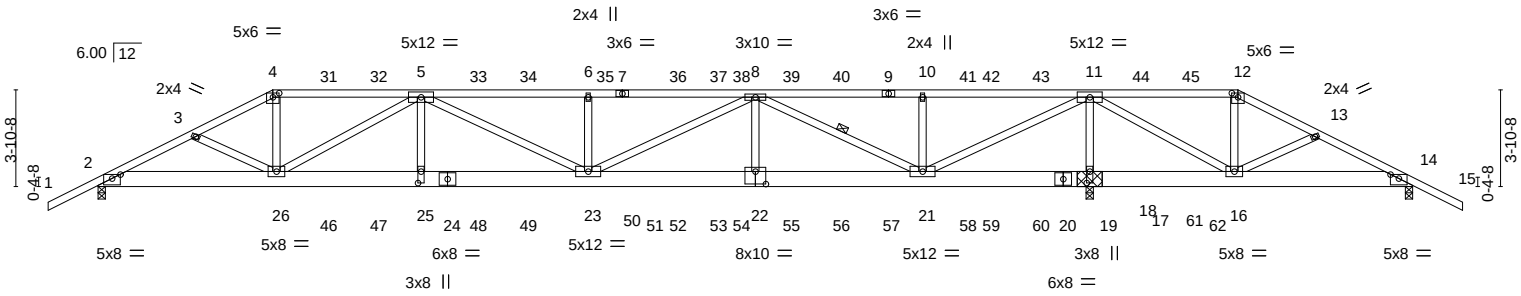
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T05	Hip Girder	1	2	T35877882
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:16 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-zgp?LhPIrIMmpLY?iW8n43erov6z5qG6jZ6FI4y7Mnn

-2-0-0	3-10-15	7-0-0	12-11-4	19-7-10	26-4-0	33-0-6	39-8-12	45-8-0	48-9-1	52-8-0	54-8-0
2-0-0	3-10-15	3-1-1	5-11-4	6-8-6	6-8-6	6-8-6	6-8-6	5-11-4	3-1-1	3-10-15	2-0-0

Scale = 1:92.3



THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

7-0-0	12-11-4	19-7-10	26-4-0	33-0-6	39-8-12	45-8-0	52-8-0
7-0-0	5-11-4	6-8-6	6-8-6	6-8-6	6-8-6	5-11-4	7-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [4:0-3-0,0-2-0], [12:0-3-0,0-2-0], [14:0-4-0,0-1-15], [18:0-5-8,0-1-8], [22:0-5-0,0-6-0], [25:0-5-8,0-1-8]

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	0.79	Vert(LL)	-0.25	23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.47	23	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.04	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 716 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
5-23,8-23,8-21,11-21: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 8-21

REACTIONS. (size) 2=0-3-8, 18=(0-3-8 + bearing block) (req. 0-3-13), 14=0-3-8
Max Horz 2=75(LC 8)
Max Uplift 2=-861(LC 8), 18=-2358(LC 4), 14=-945(LC 21)
Max Grav 2=2531(LC 21), 18=6505(LC 1), 14=409(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4917/1656, 3-4=-4796/1615, 4-5=-4344/1497, 5-6=-6529/2294, 6-8=-6529/2294, 8-10=-394/270, 10-11=-394/270, 11-12=-809/2302, 12-13=-891/2511, 13-14=-893/2441
BOT CHORD 2-26=-1465/4347, 25-26=-2113/6387, 23-25=-2113/6387, 22-23=-1719/4775, 21-22=-1719/4775, 18-21=-5574/2001, 16-18=-5574/2001, 14-16=-2156/830
WEBS 4-26=-463/1696, 5-26=-2410/881, 5-25=0/586, 6-23=-752/456, 8-23=-626/1975, 8-22=-52/696, 8-21=-4927/1740, 10-21=-712/429, 11-21=-2435/6677, 11-18=-5781/2231, 11-16=-1332/3860, 12-16=-1695/759

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) 2x8 SP 2400F 2.0E bearing block 12" long at jt. 18 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
4) Unbalanced roof live loads have been considered for this design.
5) 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
6) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
7) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 2=861, 18=2358, 14=945.

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Continued on page 2

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 101 lb up at 7-0-0, 106 lb down and 101 lb up at 9-0-12, 106 lb down and 101 lb up at 11-0-12, 106 lb down and 101 lb up at 13-0-12, 106 lb down and 101 lb up at 15-0-12, 106 lb down and 101 lb up at 17-0-12, 106 lb down and 101 lb up at 19-0-12, 106 lb down and 101 lb up at 21-0-12, 114 lb down and 105 lb up at 23-0-12, 114 lb down and 105 lb up at 23-7-4, 114 lb down and 103 lb up at 25-7-4, 114 lb down and 105 lb up at 27-7-4, 114 lb down and 105 lb up at 29-7-4, 114 lb down and 105 lb up at 31-7-4, 114 lb down and 105 lb up at 33-7-4, 114 lb down and 105 lb up at 35-7-4, 114 lb down and 105 lb up at 37-7-4, 114 lb down and 105 lb up at 39-7-4, 106 lb down and 101 lb up at 41-7-4, and 106 lb down and 101 lb up at 43-7-4, and 345 lb down and 277 lb up at 45-8-0 on top chord, and 296 lb down and 108 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 87 lb down and 24 lb up at 23-0-12, 87 lb down and 24 lb up at 23-7-4, 87 lb down and 24 lb up at 25-7-4, 87 lb down and 24 lb up at 27-7-4, 87 lb down and 24 lb up at 29-7-4, 87 lb down and 24 lb up at 31-7-4, 87 lb down and 24 lb up at 33-7-4, 87 lb down and 24 lb up at 35-7-4, 87 lb down and 24 lb up at 37-7-4, 85 lb down at 41-7-4, and 85 lb down at 43-7-4, and 296 lb down and 108 lb up at 45-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-54, 4-12=-54, 12-15=-54, 2-14=-20
   Concentrated Loads (lb)
   Vert: 4=-106(B) 7=-106(B) 12=-298(B) 26=-290(B) 5=-106(B) 25=-61(B) 11=-114(B) 16=-290(B) 9=-114(B) 31=-106(B) 32=-106(B) 33=-106(B) 34=-106(B) 35=-106(B) 36=-114(B) 37=-114(B) 38=-114(B) 39=-114(B) 40=-114(B) 41=-114(B) 42=-114(B) 43=-114(B) 44=-106(B) 45=-106(B) 46=-61(B) 47=-61(B) 48=-61(B) 49=-61(B) 50=-61(B) 51=-61(B) 52=-69(B) 53=-69(B) 54=-69(B) 55=-69(B) 56=-69(B) 57=-69(B) 58=-69(B) 59=-69(B) 60=-69(B) 61=-61(B) 62=-61(B)

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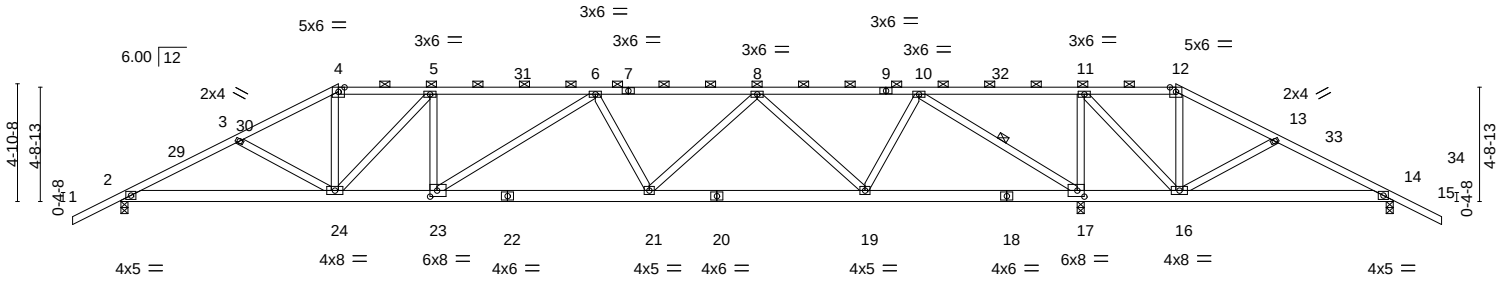
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T06	Hip	1	1	T35877883
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:17 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-RtNNZ1QwccUdQV7CFDf0cGA0aJNKqDHFyDspqWy7Mnm

-2-0-0	4-10-15	9-0-0	12-11-4	19-7-10	26-4-0	33-0-6	39-8-12	43-8-0	47-9-1	52-8-0	54-8-0
2-0-0	4-10-15	4-1-1	3-11-4	6-8-6	6-8-6	6-8-6	6-8-6	3-11-4	4-1-1	4-10-15	2-0-0

Scale: 1/8"=1'



9-0-0	12-11-4	21-10-7	30-9-9	39-8-12	43-8-0	52-8-0
9-0-0	3-11-4	8-11-3	8-11-3	8-11-3	3-11-4	9-0-0

Plate Offsets (X,Y)-- [17:0-3-8,0-3-0], [23:0-3-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.18	21-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.36	21-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.07	17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 319 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except 2-0-0 oc purlins (3-5-1 max.): 4-12.
BOT CHORD Rigid ceiling directly applied or 5-2-4 oc bracing.
WEBS 1 Row at midpt 10-17

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 14=0-3-8
Max Horz 2=90(LC 12)
Max Uplift 2=-436(LC 12), 17=-795(LC 8), 14=-370(LC 25)
Max Grav 2=1371(LC 25), 17=2819(LC 1), 14=154(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2393/756, 3-4=-2174/674, 4-5=-1885/629, 5-6=-2347/761, 6-8=-2265/732, 8-10=-853/315, 10-11=-506/1888, 11-12=-339/1083, 12-13=-404/1230, 13-14=-403/1136
BOT CHORD 2-24=-674/2115, 23-24=-664/2347, 21-23=-740/2429, 19-21=-551/1743, 17-19=-113/323, 16-17=-1888/580, 14-16=-994/396
WEBS 4-24=-198/767, 5-24=-743/297, 6-21=-367/238, 8-21=-226/740, 8-19=-1253/437, 10-19=-274/1169, 10-17=-2577/825, 11-17=-1251/389, 11-16=-292/1283, 12-16=-665/219, 13-16=-324/195

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 9-0-0, Zone2 9-0-0 to 16-5-6, Zone1 16-5-6 to 43-8-0, Zone2 43-8-0 to 51-1-6, Zone1 51-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=436, 17=795, 14=370.
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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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MiTek®
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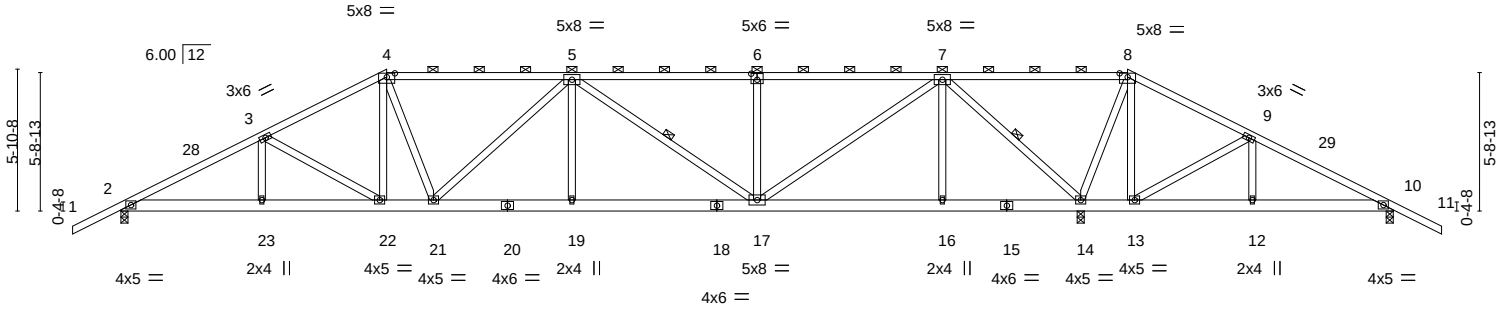
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T07	Hip	1	1	T35877884
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:18 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-v3xlmNQYNvcT2fhOpxAF9Uj9jij3Zj?PBtbMNzy7Mnl

-2-0-0	5-10-0	11-0-0	18-8-0	26-4-0	34-0-0	41-8-0	46-10-0	52-8-0	54-8-0
2-0-0	5-10-0	5-2-0	7-8-0	7-8-0	7-8-0	7-8-0	5-2-0	5-10-0	2-0-0

Scale: 1/8"=1'



5-10-0	11-0-0	12-11-4	18-8-0	26-4-0	34-0-0	39-8-12	41-8-0	46-10-0	52-8-0
5-10-0	5-2-0	1-11-4	5-8-12	7-8-0	7-8-0	5-8-12	1-11-4	5-2-0	5-10-0

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

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	0.96	Vert(LL)	-0.15	19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.28	17-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.06	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 338 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-9 oc purlins, except 2-0-0 oc purlins (2-2-0 max.): 4-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 7-14

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-3-8
Max Horz 2=-106(LC 13)
Max Uplift 2=-436(LC 12), 14=-727(LC 8), 10=-358(LC 25)
Max Grav 2=1381(LC 25), 14=2798(LC 1), 10=144(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2439/727, 3-4=-2030/646, 4-5=-1862/627, 5-6=-1506/533, 6-7=-1506/533, 7-8=-375/1552, 8-9=-359/1345, 9-10=-400/1066
BOT CHORD 2-23=-653/2132, 22-23=-653/2132, 21-22=-481/1763, 19-21=-599/2075, 17-19=-599/2075, 13-14=-1161/387, 12-13=-938/394, 10-12=-938/394
WEBS 3-22=-418/197, 4-22=-79/292, 4-21=-121/356, 5-21=-391/206, 5-19=0/276, 5-17=-713/297, 6-17=-394/220, 7-17=-492/1685, 7-16=0/256, 7-14=-2217/703, 8-14=-1154/312, 9-13=-514/221, 9-12=0/272

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 11-0-0, Zone2 11-0-0 to 18-8-0, Zone1 18-8-0 to 41-8-0, Zone2 41-8-0 to 49-1-6, Zone1 49-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=436, 14=727, 10=358.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:
December 20,2024

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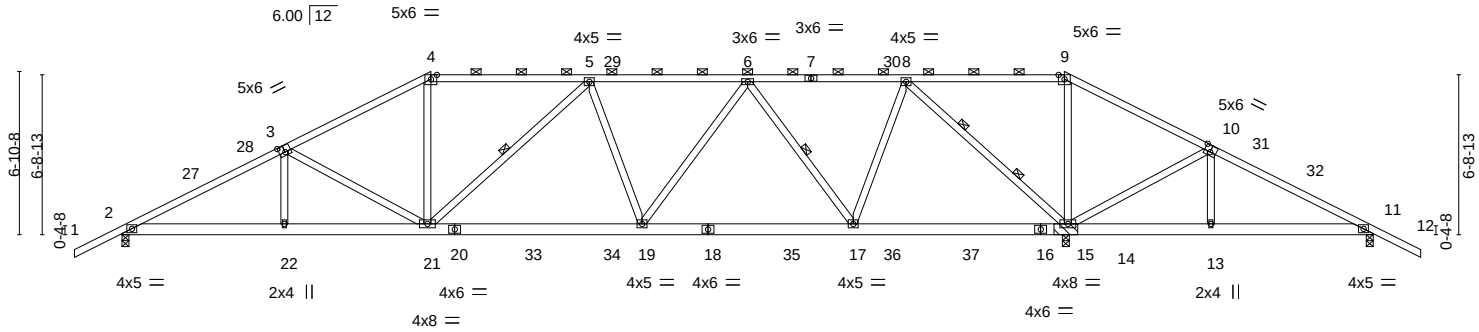
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T08	Hip	1	1	T35877885
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:19 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-NFV8_jRB8DkKgoGaNehUhhGOX60LIAzYPXLvvPy7Mnk

-2-0-0	6-10-0	13-0-0	19-8-0	26-4-0	33-0-0	39-8-0	45-10-0	52-8-0	54-8-0
2-0-0	6-10-0	6-2-0	6-8-0	6-8-0	6-8-0	6-8-0	6-2-0	6-10-0	2-0-0

Scale = 1:97.0



6-10-0	13-0-0	21-10-11	30-9-5	39-8-0	39-8-12	45-10-0	52-8-0
6-10-0	6-2-0	8-10-11	8-10-11	8-10-11	0-0-12	6-1-4	6-10-0

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

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	0.70	Vert(LL)	-0.19	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.32	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07	14	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 330 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-5 oc purlins, except 2-0-0 oc purlins (3-10-3 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-21, 6-17
2 Rows at 1/3 pts 8-14

REACTIONS. (size) 2=0-3-8, 14=(0-3-8 + bearing block) (req. 0-3-10), 11=0-3-8
Max Horz 2=-123(LC 17)
Max Uplift 2=-438(LC 12), 14=-639(LC 8), 11=-308(LC 25)
Max Grav 2=1504(LC 27), 14=3069(LC 2), 11=119(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2677/726, 3-4=-2145/608, 4-5=-1855/587, 5-6=-1899/546, 6-8=-866/304, 8-9=-231/1308, 9-10=-302/1530, 10-11=-340/1084
BOT CHORD 2-22=-660/2349, 21-22=-660/2351, 19-21=-496/1974, 17-19=-396/1481, 14-17=-134/428, 13-14=-947/341, 11-13=-949/341
WEBS 3-22=0/259, 3-21=-564/261, 4-21=-98/672, 5-21=-288/195, 5-19=-328/223, 6-19=-191/742, 6-17=-1088/363, 8-17=-256/1339, 8-14=-2297/631, 9-14=-912/243, 10-14=-607/273, 10-13=0/263

NOTES-
1) 2x6 SP No.2 bearing block 12" long at jt. 14 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
2) Unbalanced roof live loads have been considered for this design.
3) 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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 13-0-0, Zone2 13-0-0 to 20-5-6, Zone1 20-5-6 to 39-8-0, Zone2 39-8-0 to 47-1-6, Zone1 47-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) 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) 2=438, 14=639, 11=308.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T09	Hip	1	1	T35877886
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:20 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-rS3WB3SpvXsBHyrnxLCjEvoZ4WL?1cuheB4TRry7Mnj

-2-0-0	7-10-0	15-0-0	20-8-14	26-4-0	31-11-2	37-8-0	39-8-12	43-0-0	46-8-0	52-8-0	54-8-0
2-0-0	7-10-0	7-2-0	5-8-14	5-7-2	5-7-2	5-8-14	2-0-12	3-3-4	3-8-0	6-0-0	2-0-0

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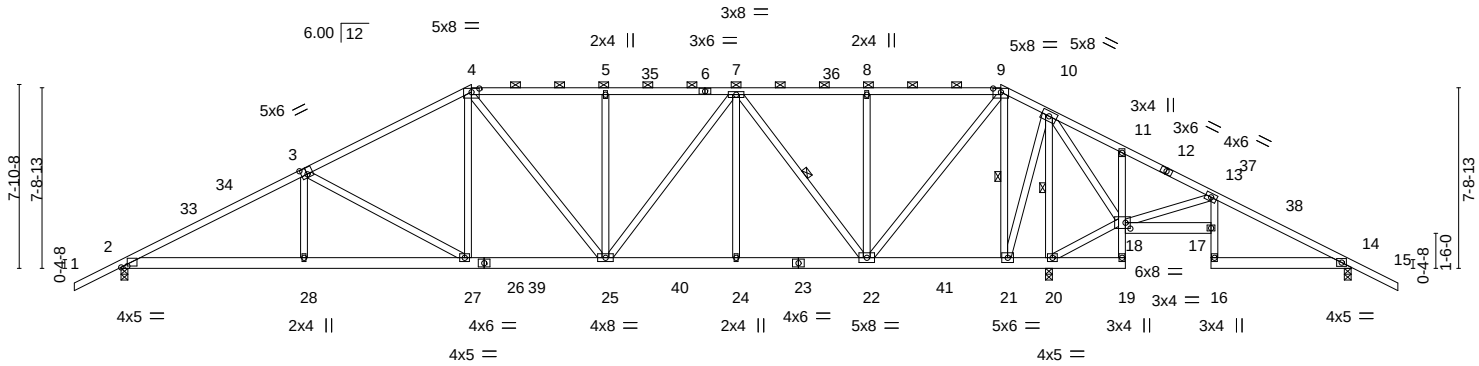

7-10-0	15-0-0	20-8-14	26-4-0	31-11-2	37-8-0	39-8-12	43-0-0	46-8-0	52-8-0
7-10-0	7-2-0	5-8-14	5-7-2	5-7-2	5-8-14	2-0-12	3-3-4	3-8-0	6-0-0

Plate Offsets (X,Y)-- [2:0-3-3,0-0-10], [3:0-3-0,0-3-4], [4:0-4-0,0-1-15], [9:0-4-0,0-1-15], [18:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.17	25-27	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.29	25-27	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.07	20	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 383 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
11-19,13-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-10-7 max.): 4-9.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-22, 9-21, 10-20

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 20=0-3-8
Max Horz 2=140(LC 12)
Max Uplift 2=-473(LC 12), 14=-154(LC 13), 20=-550(LC 13)
Max Grav 2=1636(LC 27), 14=307(LC 26), 20=2612(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2927/787, 3-4=-2257/650, 4-5=-2048/629, 5-7=-2046/628, 7-8=-1118/425, 8-9=-1120/426, 10-11=-23/689, 11-13=-65/676
BOT CHORD 2-28=-720/2564, 27-28=-720/2558, 25-27=-450/1946, 24-25=-460/1768, 22-24=-460/1768, 20-21=-594/259
WEBS 3-28=0/337, 3-27=-699/308, 4-27=-110/593, 4-25=-176/250, 5-25=-346/191, 7-25=-190/495, 7-24=0/298, 7-22=-1109/301, 8-22=-342/194, 9-22=-430/1781, 9-21=-1597/357, 10-21=-311/1640, 10-20=-1964/379, 18-20=-625/279, 13-18=-465/194

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 15-0-0, Zone2 15-0-0 to 22-5-6, Zone1 22-5-6 to 37-8-0, Zone2 37-8-0 to 45-1-6, Zone1 45-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=473, 14=154, 20=550.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T10	Hip	1	1	T35877887
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:21 2024 Page 1
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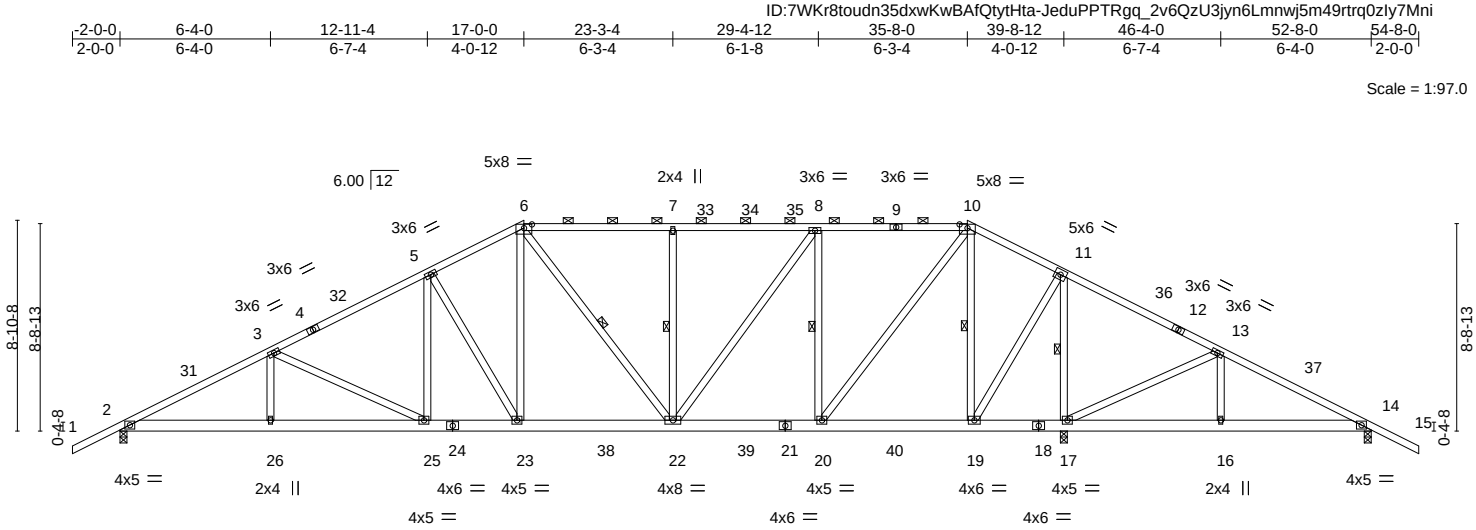

6-4-0 12-11-4 17-0-0 23-3-4 29-4-12 35-8-0 39-8-12 46-4-0 52-8-0
6-4-0 6-7-4 4-0-12 6-3-4 6-1-8 6-3-4 4-0-12 6-7-4 6-4-0

Plate Offsets (X,Y)-- [6:0-4-0,0-1-15], [10:0-4-0,0-1-15]

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	0.52	Vert(LL)	-0.16	22-23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.27	22-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	17	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 375 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-11 oc purlins, except
2-0-0 oc purlins (4-2-7 max.): 6-10.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-22, 7-22, 8-20, 10-19, 11-17

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 14=0-3-8
Max Horz 2=156(LC 12)
Max Uplift 2=-449(LC 12), 17=-565(LC 13), 14=-141(LC 13)
Max Grav 2=1581(LC 27), 17=2711(LC 2), 14=310(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2893/755, 3-5=-2284/632, 5-6=-1910/588, 6-7=-1592/492, 7-8=-1590/491, 8-10=-1118/361, 10-11=-255/190, 11-13=-173/918, 13-14=-163/436
BOT CHORD 2-26=-726/2547, 25-26=-726/2547, 23-25=-490/1983, 22-23=-348/1667, 20-22=-241/1118, 19-20=-30/257, 17-19=-765/281, 16-17=-370/181, 14-16=-370/181
WEBS 3-26=0/289, 3-25=-626/262, 5-25=-79/436, 5-23=-595/266, 6-23=-202/734, 7-22=-363/201, 8-22=-287/805, 8-20=-955/337, 10-20=-374/1539, 10-19=-1339/332, 11-19=-347/1780, 11-17=-2229/476, 13-17=-620/261, 13-16=0/282

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 17-0-0, Zone2 17-0-0 to 24-5-6, Zone1 24-5-6 to 35-8-0, Zone2 35-8-0 to 43-1-6, Zone1 43-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=449, 17=565, 14=141.
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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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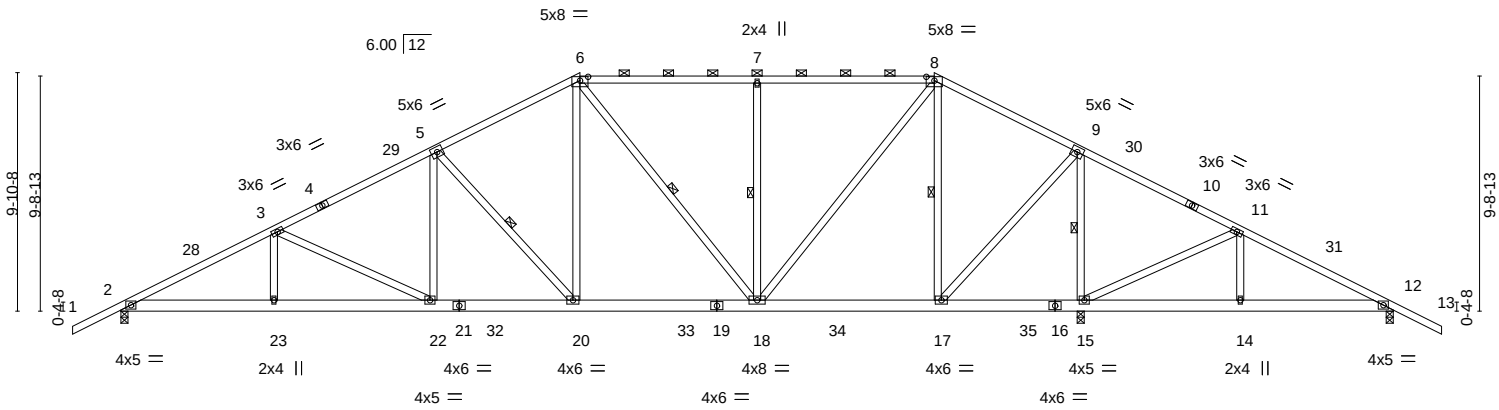
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T11	Hip	1	1	T35877888
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:22 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-nqBGckT3R86vXG?92mEBJKuvdK29VUS_5VZaWky7Mnh

-2-0-0	6-4-0	12-11-4	19-0-0	26-4-0	33-8-0	39-8-12	46-4-0	52-8-0	54-8-0
2-0-0	6-4-0	6-7-4	6-0-12	7-4-0	7-4-0	6-0-12	6-7-4	6-4-0	2-0-0

Scale: 1/8"=1'



6-4-0	12-11-4	19-0-0	26-4-0	33-8-0	39-8-12	46-4-0	52-8-0
6-4-0	6-7-4	6-0-12	7-4-0	7-4-0	6-0-12	6-7-4	6-4-0

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

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	0.64	Vert(LL)	-0.15	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.26	22-23	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 362 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-5 oc purlins, except 2-0-0 oc purlins (4-6-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-18, 7-18, 8-17, 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=173(LC 12)
Max Uplift 2=-447(LC 12), 15=-557(LC 13), 12=-144(LC 13)
Max Grav 2=1600(LC 2), 15=2723(LC 2), 12=337(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2931/748, 3-5=-2336/629, 5-6=-1784/534, 6-7=-1285/406, 7-8=-1285/406, 8-9=-592/245, 9-11=-162/882, 11-12=-138/394
BOT CHORD 2-23=-736/2580, 22-23=-736/2580, 20-22=-507/2033, 18-20=-295/1533, 17-18=-57/531, 15-17=-730/271, 14-15=-333/168, 12-14=-333/168
WEBS 3-23=0/283, 3-22=-606/253, 5-22=-71/498, 5-20=-726/310, 6-20=-190/827, 6-18=-460/182, 7-18=-473/263, 8-18=-357/1299, 8-17=-1036/274, 9-17=-317/1780, 9-15=-2203/482, 11-15=-609/254, 11-14=0/281

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 19-0-0, Zone2 19-0-0 to 26-4-0, Zone1 26-4-0 to 33-8-0, Zone2 33-8-0 to 41-1-6, Zone1 41-1-6 to 54-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=447, 15=557, 12=144.
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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T12	Hip	1	1	T35877889
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:23 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-F1lep4UhBSEm8QaMcUmQsXQ2njOAE_e8K9J72Ay7Mng

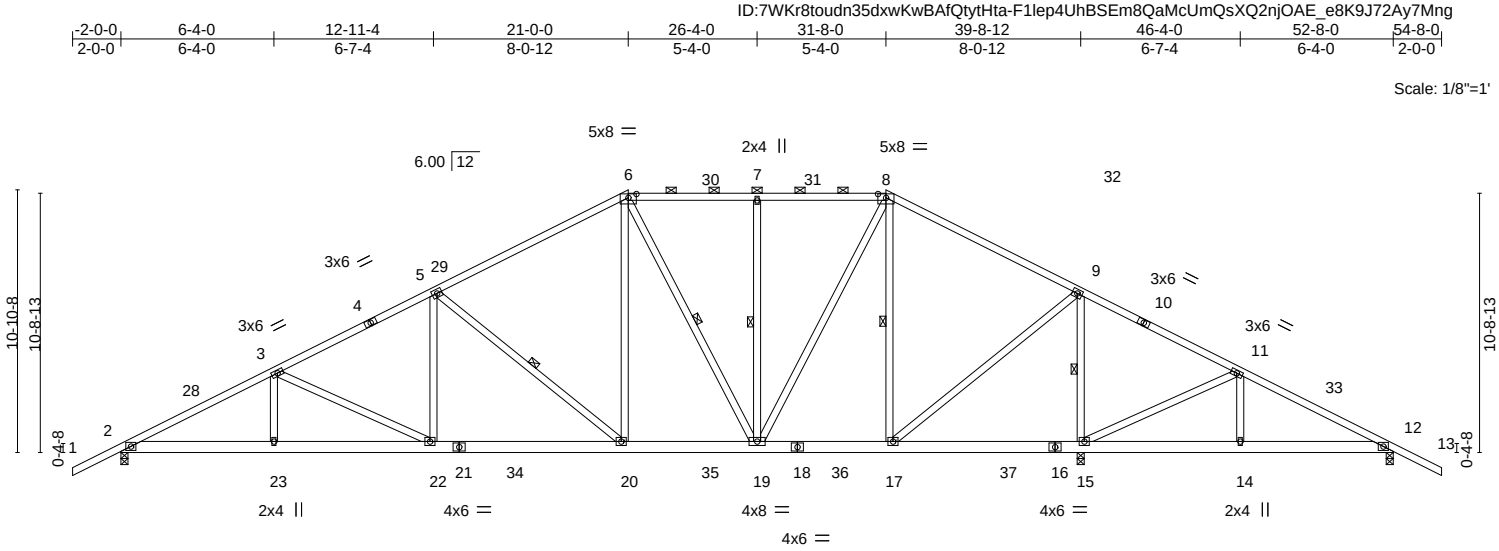

Plate Offsets (X,Y)-- [6:0-4-0,0-1-15], [8:0-4-0,0-1-15]

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	0.81	Vert(LL)	-0.17	20-22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.29	20-22	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 370 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, except 2-0-0 oc purlins (5-3-15 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-20, 6-19, 7-19, 8-17, 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=190(LC 12)
Max Uplift 2=-445(LC 12), 15=-549(LC 13), 12=-147(LC 13)
Max Grav 2=1607(LC 2), 15=2686(LC 2), 12=365(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2933/742, 3-5=-2371/630, 5-6=-1632/483, 6-7=-1152/394, 7-8=-1152/394, 8-9=-853/280, 9-11=-144/808, 11-12=-156/343
BOT CHORD 2-23=-744/2580, 22-23=-744/2580, 20-22=-531/2071, 19-20=-241/1376, 17-19=-63/728, 15-17=-657/256, 14-15=-287/154, 12-14=-287/154
WEBS 3-23=0/267, 3-22=-565/237, 5-22=-55/550, 5-20=-881/369, 6-20=-192/854, 6-19=-540/203, 7-19=-325/184, 8-19=-300/1017, 8-17=-813/242, 9-17=-316/1735, 9-15=-2122/492, 11-15=-571/238, 11-14=0/268

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6, Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 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 4x5 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) 2=445, 15=549, 12=147.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Chesterfield, MO 63017
Date:
December 20,2024

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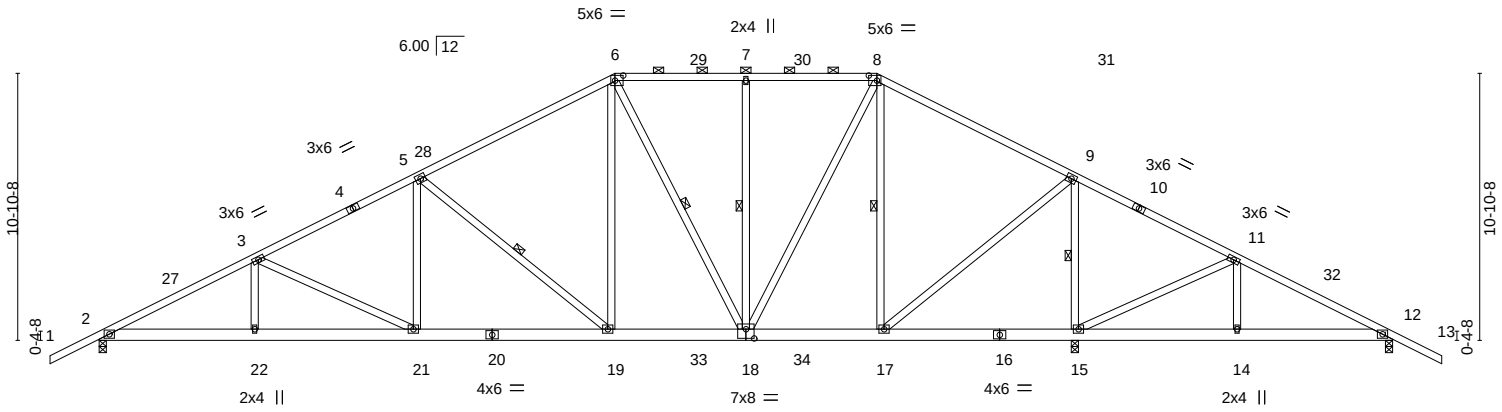
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T13	Piggyback Base	4	1	T35877890
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:24 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-kDI11QVJylMdma9YABHfOlzDU7kPzRpHZp2gacy7Mnf

-2-0-0	6-4-0	12-11-4	21-0-0	26-4-0	31-8-0	39-8-12	46-4-0	52-8-0	54-8-0
2-0-0	6-4-0	6-7-4	8-0-12	5-4-0	5-4-0	8-0-12	6-7-4	6-4-0	2-0-0

Scale = 1:93.8



6-4-0	12-11-4	21-0-0	26-4-0	31-8-0	39-8-12	46-4-0	52-8-0
6-4-0	6-7-4	8-0-12	5-4-0	5-4-0	8-0-12	6-7-4	6-4-0

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

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	0.81	Vert(LL)	-0.17	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.29	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 371 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, except 2-0-0 oc purlins (5-4-6 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-19, 6-18, 7-18, 8-17, 9-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 12=0-3-8
Max Horz 2=192(LC 12)
Max Uplift 2=-445(LC 12), 15=-548(LC 13), 12=-147(LC 13)
Max Grav 2=1607(LC 2), 15=2680(LC 2), 12=367(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2934/741, 3-5=-2371/630, 5-6=-1629/482, 6-7=-1137/392, 7-8=-1137/392, 8-9=-855/280, 9-11=-142/801, 11-12=-161/336
BOT CHORD 2-22=-746/2580, 21-22=-746/2580, 19-21=-532/2071, 18-19=-239/1366, 17-18=-63/726, 15-17=-651/256, 14-15=-281/153, 12-14=-281/153
WEBS 3-22=0/267, 3-21=-566/236, 5-21=-55/549, 5-19=-894/375, 6-19=-195/862, 6-18=-547/208, 7-18=-306/178, 8-18=-296/1002, 8-17=-807/241, 9-17=-313/1723, 9-15=-2117/491, 11-15=-571/238, 11-14=0/268

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6, Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 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 4x5 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) 2=445, 15=548, 12=147.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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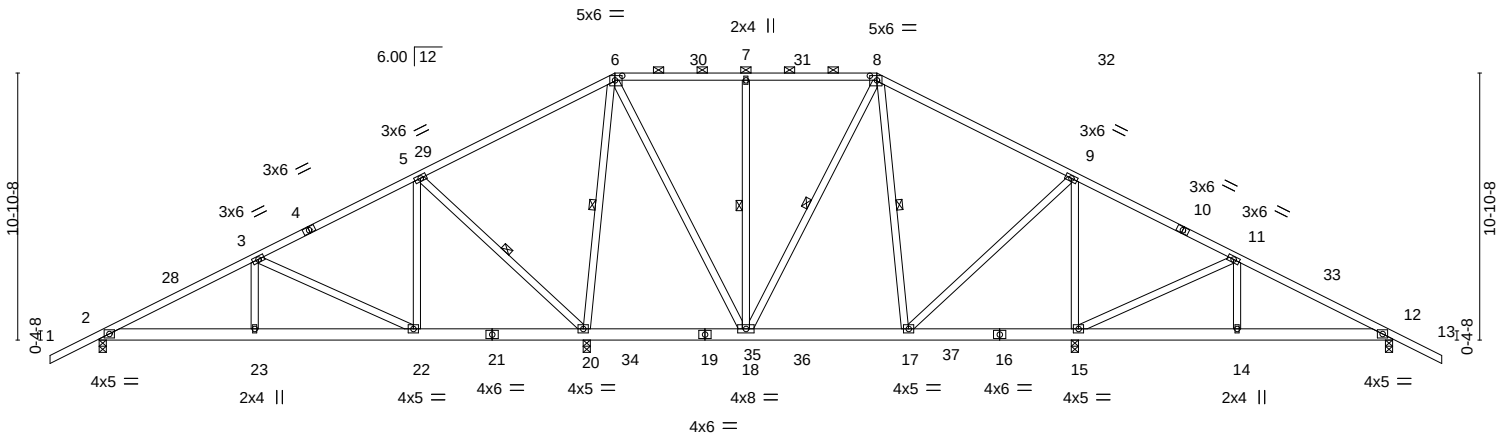
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T14	Piggyback Base	3	1	T35877891
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:25 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-CPsPEmWxj3UUOjkkjvouxyWQzX8SivhQoToE63y7Mne

-2-0-0	6-4-0	12-11-4	21-0-0	26-4-0	31-8-0	39-8-12	46-4-0	52-8-0	54-8-0
2-0-0	6-4-0	6-7-4	8-0-12	5-4-0	5-4-0	8-0-12	6-7-4	6-4-0	2-0-0

Scale = 1:93.8



6-4-0	12-11-4	19-10-4	26-4-0	32-9-12	39-8-12	46-4-0	52-8-0
6-4-0	6-7-4	6-11-0	6-5-12	6-5-12	6-11-0	6-7-4	6-4-0

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

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	0.70	Vert(LL)	0.04	23-25	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	23-25	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 369 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 5-10-5 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 18-20,15-17.
WEBS 1 Row at midpt 5-20, 6-20, 7-18, 8-18, 8-17

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-192(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-203(LC 9), 20=-577(LC 9), 15=-406(LC 13), 12=-168(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=701(LC 27), 20=1964(LC 2), 15=1477(LC 28), 12=480(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-925/366, 3-5=-335/151, 5-6=-122/528, 8-9=-304/203, 9-11=-115/367, 11-12=-415/166
BOT CHORD 2-23=-286/819, 22-23=-286/819, 20-22=-58/347, 18-20=-252/330, 15-17=-263/257, 14-15=-60/317, 12-14=-60/317
WEBS 3-23=-125/285, 3-22=-592/301, 5-22=-240/510, 5-20=-829/451, 6-20=-1094/309, 6-18=-157/696, 7-18=-306/178, 9-17=-51/558, 9-15=-945/346, 11-15=-584/328, 11-14=-148/279

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-0-0, Zone2 21-0-0 to 28-5-6, Zone1 28-5-6 to 31-8-0, Zone2 31-8-0 to 39-1-6, Zone1 39-1-6 to 54-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 203 lb uplift at joint 2, 577 lb uplift at joint 20, 406 lb uplift at joint 15 and 168 lb uplift at joint 12.
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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:
December 20,2024

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.sbcscomponents.com)

MiTek®
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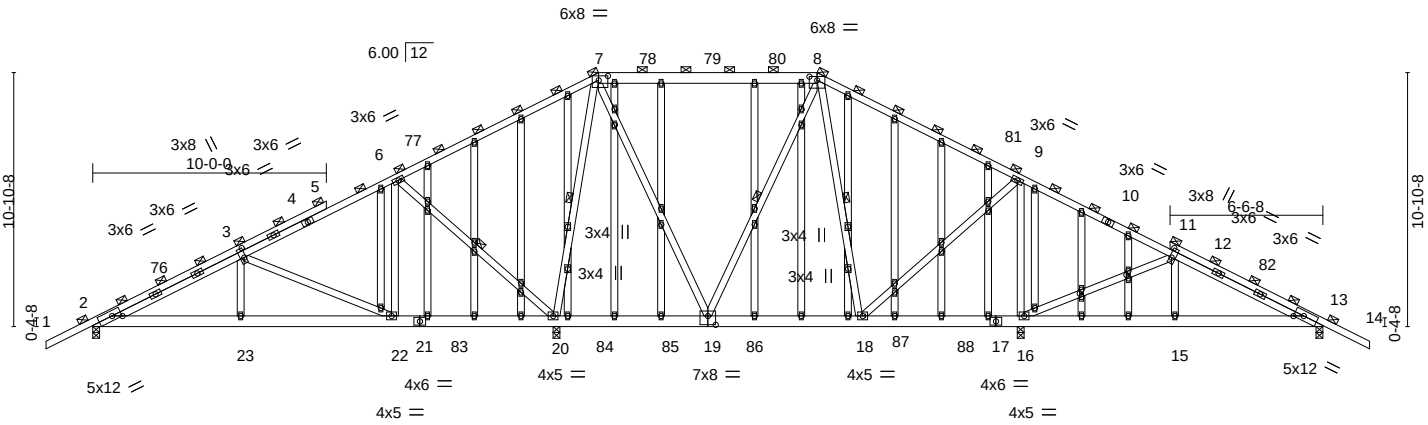
Job	Truss	Truss Type	Qty	Ply	LOT 56 CW
4384572	T14G	GABLE I Gable I Gable COMMON I I Gable I	1	1	T35877892
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Nov 8 2024 MiTek Industries, Inc. Thu Dec 19 15:05:27 2024 Page 1
ID:7WKr8toudn35dxwKwBAfQtytHta-8o_9fSXCFgkCd1t7rKqM0NbjHLq8AqQjFnHKBxy7Mnc

2-0-0	6-4-0	12-11-4	21-7-14	26-4-0	31-0-2	39-8-12	46-4-0	52-8-0	54-8-0
2-0-0	6-4-0	6-7-4	8-8-10	4-8-2	4-8-2	8-8-10	6-7-4	6-4-0	2-0-0

Scale = 1:98.6



6-4-0	12-11-4	19-8-8	19-10-4	26-4-0	32-9-12	39-8-12	39-10-8	46-4-0	52-8-0
6-4-0	6-7-4	6-9-4	0-1-12	6-5-12	6-5-12	6-11-0	0-1-12	6-5-8	6-4-0

Plate Offsets (X,Y)-- [2:0-4-12,Edge], [3:0-5-0,0-1-0], [7:0-4-12,0-2-4], [8:0-4-0,0-1-15], [12:0-5-0,0-1-0], [13:0-4-12,Edge], [19:0-4-0,0-4-8], [66:0-1-12,0-1-0], [69:0-1-12,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.03	23-72	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.05	23-72	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 563 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 7-8: 2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-20,16-18.
WEBS	1 Row at midpt 6-20, 7-20, 8-19, 8-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=192(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-216(LC 12), 13=-177(LC 13), 20=-540(LC 9), 16=-404(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=736(LC 27), 13=501(LC 26), 20=1894(LC 2), 16=1452(LC 28)

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

TOP CHORD	2-3=-985/403, 3-6=-419/191, 6-7=-107/489, 8-9=-341/215, 9-12=-103/320, 12-13=-423/187
BOT CHORD	2-23=-309/878, 22-23=-309/878, 20-22=-86/408, 19-20=-132/278, 18-19=0/266, 15-16=-83/350, 13-15=-83/350
WEBS	3-23=-119/276, 3-22=-582/286, 6-22=-231/493, 6-20=-843/458, 7-20=-1049/288, 7-19=-80/536, 8-19=-274/128, 9-18=-40/546, 9-16=-934/350, 12-16=-577/318, 12-15=-139/266

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 -2-0-0 to 3-3-3, Zone1 3-3-3 to 21-7-14, Zone2 21-7-14 to 29-1-4, Zone1 29-1-4 to 31-0-2, Zone2 31-0-2 to 38-5-8, Zone1 38-5-8 to 54-8-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 177 lb uplift at joint 13, 540 lb uplift at joint 20 and 404 lb uplift at joint 16.
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 Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:
December 20,2024

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

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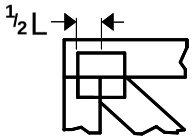
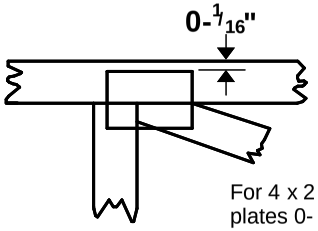
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

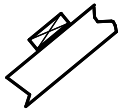
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

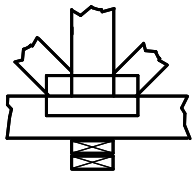
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

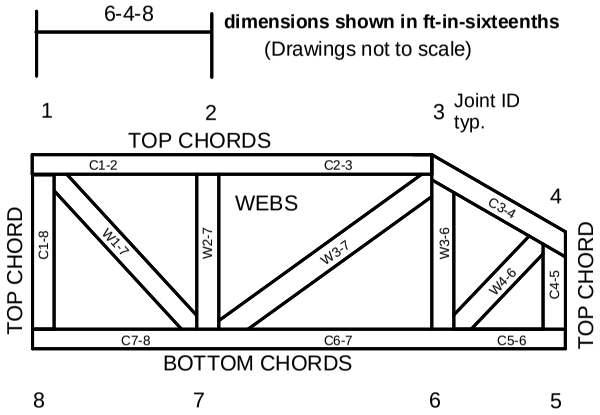


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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