



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

RE: 3926198 - IC CONST. - HARLOW RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Harlow Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
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 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 38 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	T33441160	CJ01	4/4/24	15	T33441174	T04	4/4/24
2	T33441161	CJ01A	4/4/24	16	T33441175	T05	4/4/24
3	T33441162	CJ03	4/4/24	17	T33441176	T06	4/4/24
4	T33441163	CJ03A	4/4/24	18	T33441177	T07	4/4/24
5	T33441164	CJ05	4/4/24	19	T33441178	T07A	4/4/24
6	T33441165	EJ01	4/4/24	20	T33441179	T08	4/4/24
7	T33441166	EJ02	4/4/24	21	T33441180	T09	4/4/24
8	T33441167	EJ03	4/4/24	22	T33441181	T10	4/4/24
9	T33441168	HJ08	4/4/24	23	T33441182	T11	4/4/24
10	T33441169	HJ10	4/4/24	24	T33441183	T12	4/4/24
11	T33441170	HJ10A	4/4/24	25	T33441184	T13	4/4/24
12	T33441171	T01	4/4/24	26	T33441185	T14	4/4/24
13	T33441172	T02	4/4/24	27	T33441186	T15	4/4/24
14	T33441173	T03	4/4/24	28	T33441187	T16	4/4/24

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

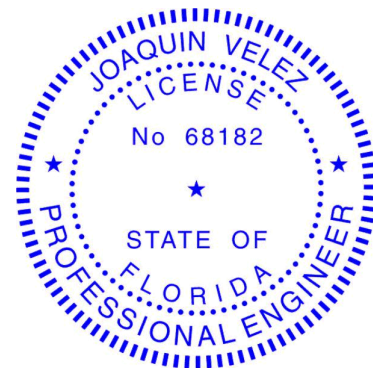
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025.

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.



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

April 4, 2024

Velez, Joaquin

1 of 2



RE: 3926198 - IC CONST. - HARLOW RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Harlow Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T33441188	T17	4/4/24
30	T33441189	T18	4/4/24
31	T33441190	T19	4/4/24
32	T33441191	T20	4/4/24
33	T33441192	T21	4/4/24
34	T33441193	T22	4/4/24
35	T33441194	T23	4/4/24
36	T33441195	T24	4/4/24
37	T33441196	TG01	4/4/24
38	T33441197	TG02	4/4/24

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441160
3926198	CJ01	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:03 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-OtLk1scY8lqbCLRHr9XiXz4M2ezY?0_UUK0MilzURX_

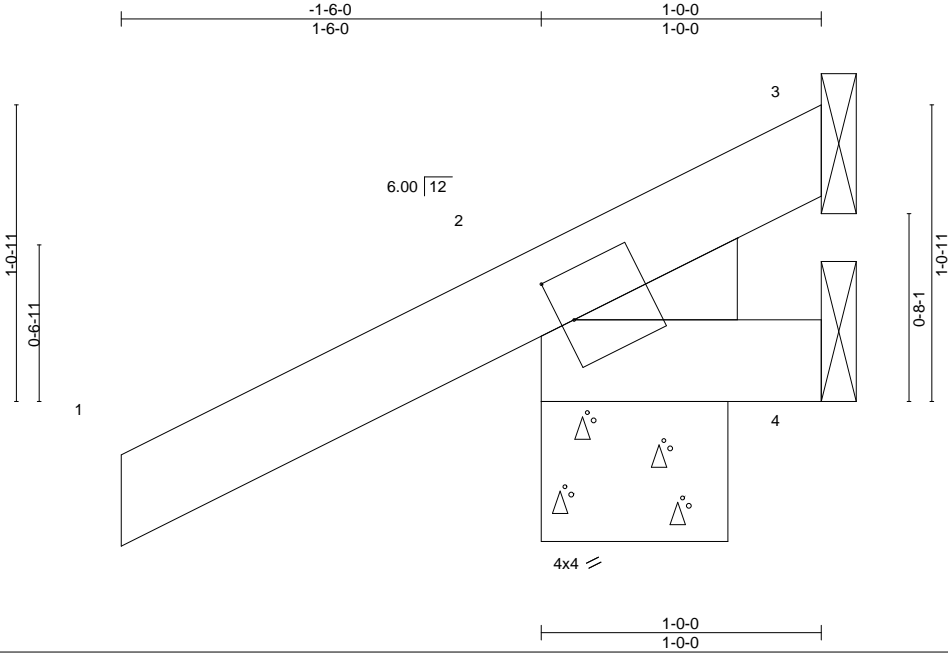


Plate Offsets (X,Y)--		[2:0-0-9,0-2-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP						Weight: 7 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=57(LC 12)
Max Uplift 3=-7(LC 1), 2=-99(LC 12), 4=-18(LC 1)
Max Grav 3=10(LC 8), 2=179(LC 1), 4=19(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 C; 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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:

April 4,2024

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.sbcsccomponents.com)

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441161
3926198	CJ01A	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:04 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-s3v6FBdAvbyRpV0TPs3x4BcXo1ILkTEej_ivEkzURWz

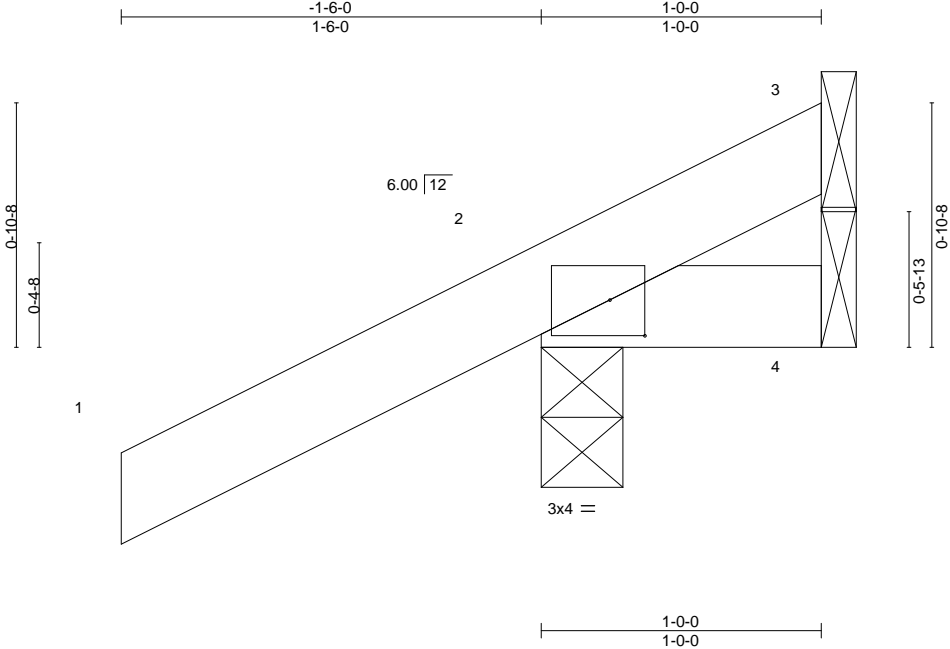


Plate Offsets (X,Y)--		[2:0-1-8,0-1-9]										
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=57(LC 12)
Max Uplift 3=-6(LC 1), 2=-110(LC 12), 4=-19(LC 1)
Max Grav 3=12(LC 8), 2=179(LC 1), 4=26(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 C; 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
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=110.

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:

April 4,2024

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441162
3926198	CJ03	Jack-Open	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:04 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-s3v6FBdAvbyRpV0TPs3x4BcXo1HhkTEej_ivEkzURWz

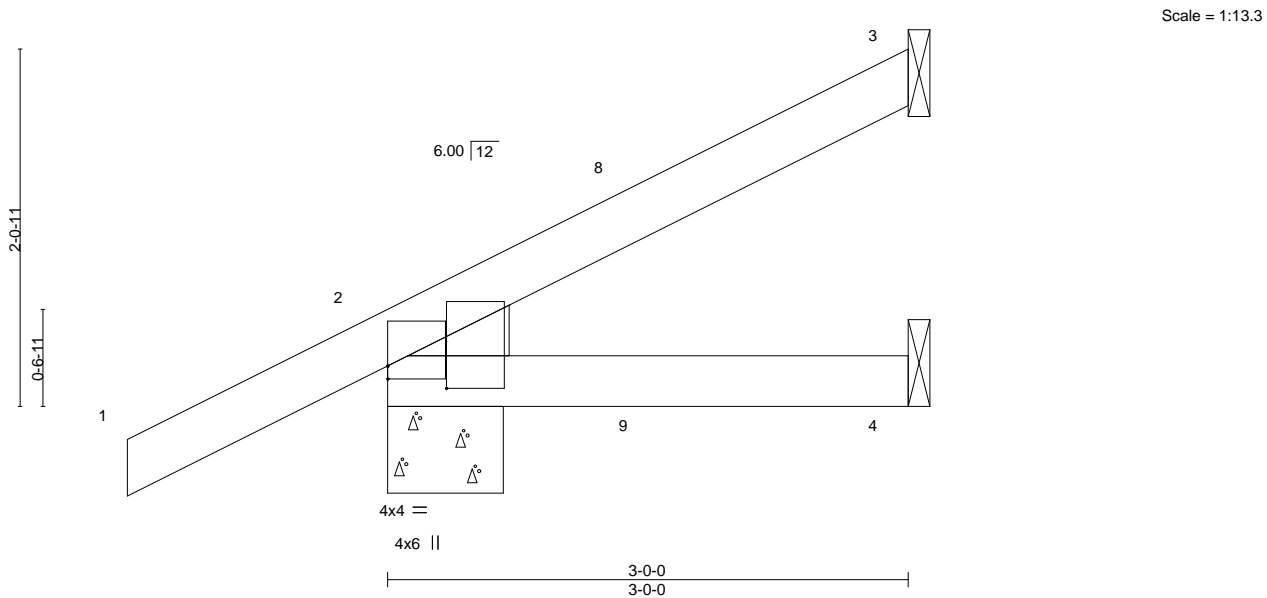


Plate Offsets (X,Y)--		[2:0-0-0,0-0-14], [2:0-1-9,0-4-1]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL) 0.01 4-7 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.10	Vert(CT) -0.01 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 13 lb	FT = 20%

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

REACTIONS.	(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
	Max Horz 2=105(LC 12)
	Max Uplift 3=56(LC 12), 2=93(LC 12), 4=29(LC 9)
	Max Grav 3=58(LC 1), 2=210(LC 1), 4=49(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 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.

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

April 4,2024

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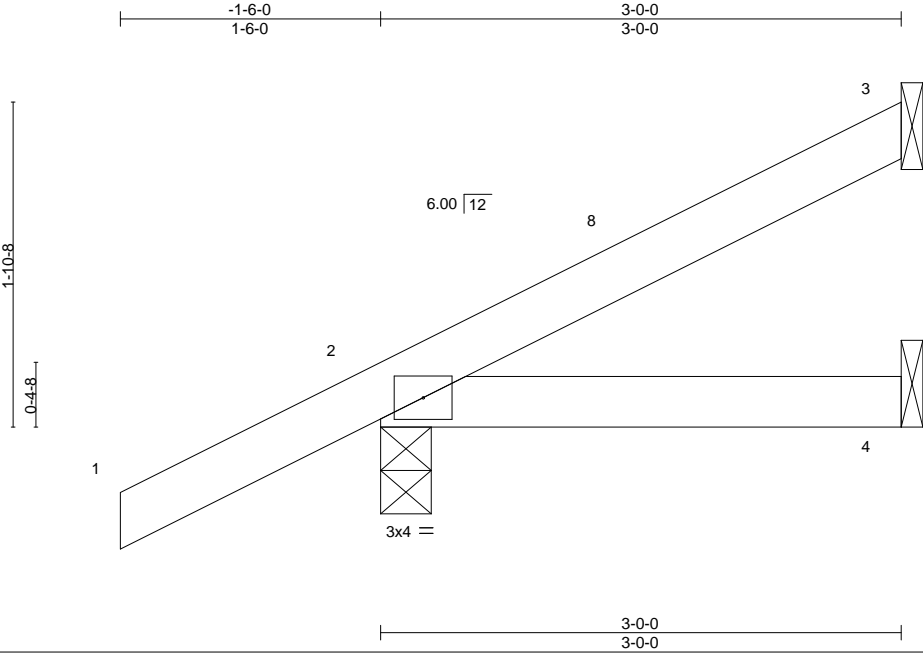
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441163
3926198	CJ03A	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:05 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-LGTVSXeofv4IRfbgzZaAcO9iYRdHTwUnyeVSmAzURWy



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 0.25	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MP						Weight: 12 lb FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=105(LC 12)
Max Uplift 3=-56(LC 12), 2=-100(LC 12)
Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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:

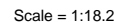
April 4,2024

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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:05 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-LGTVSxeofv4IRfbgzZaAcO9fURpZTwUnyeVSmAzURWY



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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441165
3926198	EJ01	Jack-Partial	39	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:06 2024 Page 1

ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-pS1tgteQQDC93pAsXH5P9cilDrrDCNkwBIE0lcZURWx

-1-6-0
1-6-0

7-0-0
7-0-0

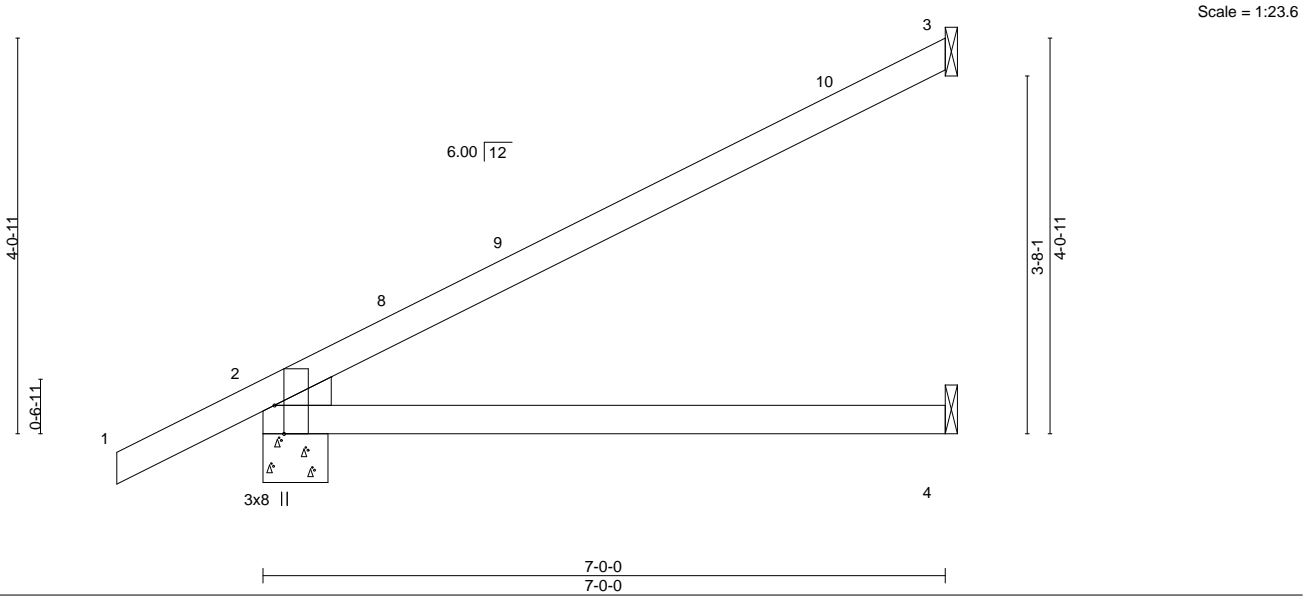


Plate Offsets (X,Y)--		[2:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76
TCDL 7.0	Lumber DOL	1.25	BC 0.60
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.17 4-7 >488 240
			Vert(CT) -0.22 4-7 >387 180
			Horz(CT) 0.03 2 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 26 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=198(LC 12)
Max Uplift 3=136(LC 12), 2=133(LC 12), 4=13(LC 12)
Max Grav 3=162(LC 1), 2=346(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=136, 2=133.

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:

April 4,2024

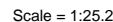
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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.sbcsccomponents.com)

MiTek®

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

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

TOP CHORD	1-2=-2378/838
BOT CHORD	1-6=-865/2120, 5-6=-865/2120
WEBS	2-6=-688/2000, 2-5=-2391/976

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-54, 4-7=-20
 Concentrated Loads (lb)
 Vert: 6=-1014(F) 11=-1014(F) 12=-1014(F)

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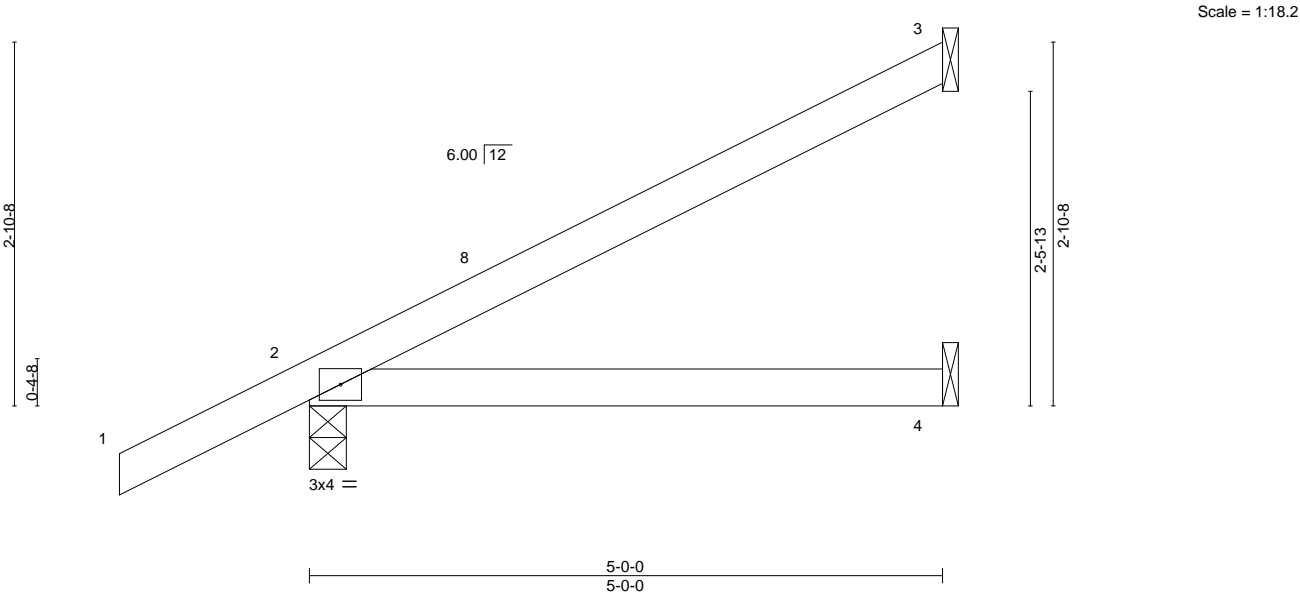
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441167
3926198	EJ03	Jack-Partial	4	1	Job Reference (optional)	

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.38	Vert(LL) 0.05	4-7	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.31	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: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=155(LC 12)
Max Uplift 3=-105(LC 12), 2=-116(LC 12), 4=-5(LC 12)
Max Grav 3=113(LC 1), 2=276(LC 1), 4=88(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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=105, 2=116.

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Chesterfield, MO 63017
Date:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441168
3926198	HJ08	Diagonal Hip Girder	4	1	Job Reference (optional)	

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8.730 s Mar 21 2024 MiTek Industries, Inc.
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Page 1
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-2-1-7
2-1-7

7-0-2
7-0-2

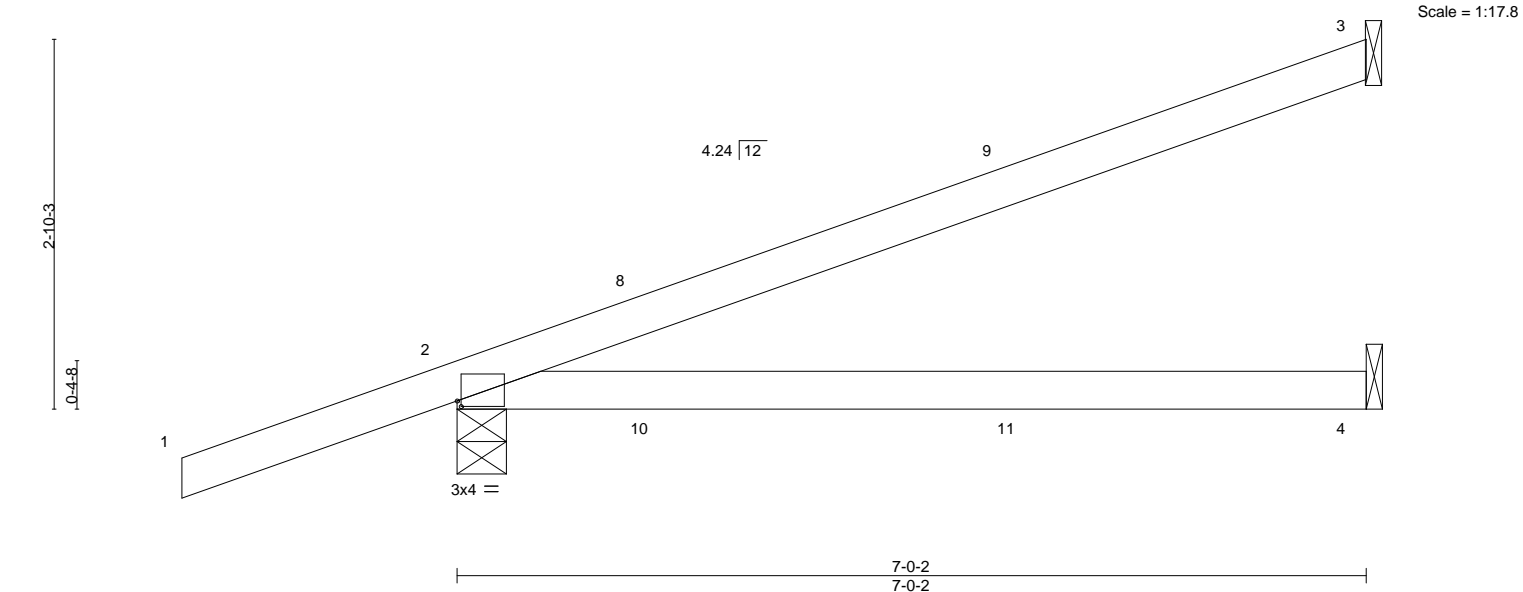


Plate Offsets (X,Y)--		[2:0-0-6,0-0-8]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		I/defl		L/d	
TCLL	20.0	Plate Grip DOL	1.25	TC		0.68		Vert(LL)	-0.10	4-7	>857	240		PLATES	
TCDL	7.0	Lumber DOL	1.25	BC		0.55		Vert(CT)	-0.21	4-7	>392	180		GRIP	
BCLL	0.0 *	Rep Stress Incr	NO	WB		0.00		Horz(CT)	0.01	3	n/a	n/a		Weight: 25 lb	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS										FT = 20%	

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=172(LC 4)
Max Uplift 3=-120(LC 8), 2=-177(LC 4)
Max Grav 3=160(LC 1), 2=391(LC 1), 4=125(LC 3)

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

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=120, 2=177.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 63 lb up at 1-6-1, 89 lb down and 63 lb up at 1-6-1, and 28 lb down and 59 lb up at 4-4-0, and 28 lb down and 59 lb up at 4-4-0 on top chord, and 25 lb down and 38 lb up at 1-6-1, 25 lb down and 38 lb up at 1-6-1, and 25 lb down at 4-4-0, and 25 lb down at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 11=-6(F=-3, B=-3)

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

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441169
3926198	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:08 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-lr9d5ZghyqStl6JFei7tE1n7DfWXgCSDDecj7NVzURWv

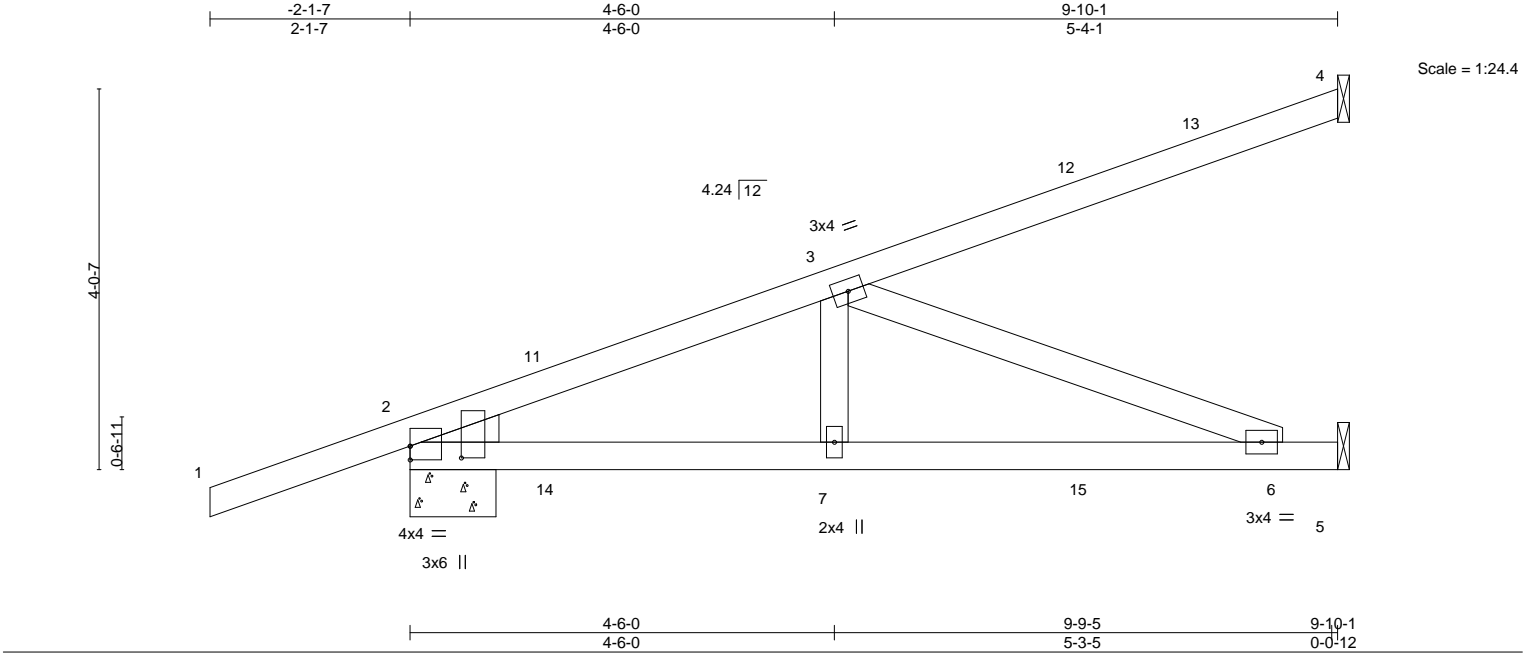


Plate Offsets (X,Y)--		[2:0-0-0,0-1-12], [2:0-1-8,0-6-8]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) 0.15	6-7	>758	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.68	Vert(CT) -0.15	6-7	>801	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.37	Horz(CT) 0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-2-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz	2=215(LC 4)
Max Uplift	4=132(LC 4), 2=302(LC 4), 5=225(LC 8)
Max Grav	4=152(LC 1), 2=529(LC 1), 5=298(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-718/492
BOT CHORD	2-7=-535/651, 6-7=-535/651
WEBS	3-7=-126/283, 3-6=-699/574

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=132, 2=302, 5=225.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 65 lb up at 1-6-1, 87 lb down and 65 lb up at 1-6-1, 28 lb down and 59 lb up at 4-4-0, 28 lb down and 59 lb up at 4-4-0, and 52 lb down and 113 lb up at 7-1-15, and 52 lb down and 113 lb up at 7-1-15 on top chord, and 21 lb down and 37 lb up at 1-6-1, 21 lb down and 37 lb up at 1-6-1, 17 lb down and 37 lb up at 4-4-0, 17 lb down and 37 lb up at 4-4-0, and 37 lb down and 65 lb up at 7-1-15, and 37 lb down and 65 lb up 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

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

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441169
3926198	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:08 2024 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-9(F=-5, B=-5) 12=-70(F=-35, B=-35) 15=-62(F=-31, B=-31)

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441170
3926198	HJ10A	Diagonal Hip Girder	2	1	Job Reference (optional)	

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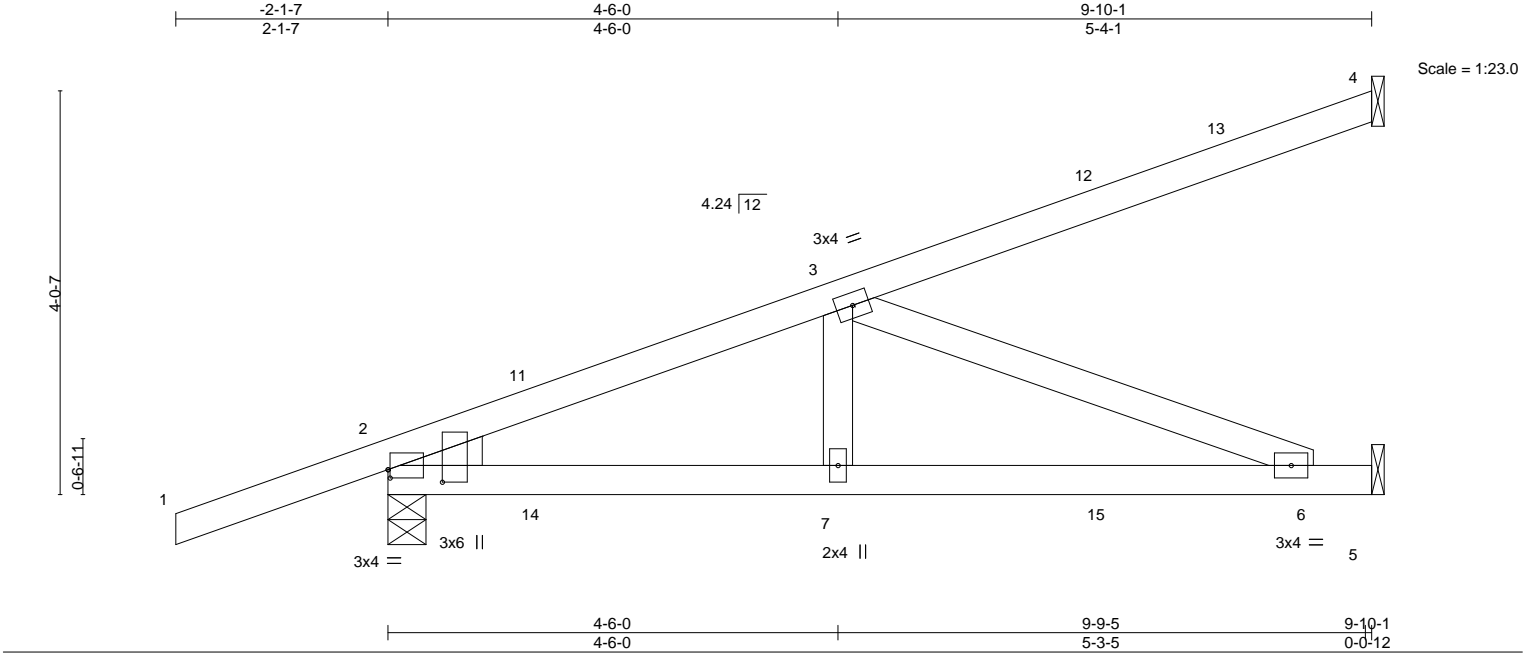


Plate Offsets (X,Y)--		[2:0-4-0,0-1-0], [2:0-1-8,0-6-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.16 6-7	>750	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	-0.15 6-7	>801	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS					Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-2-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=215(LC 4)
Max Uplift 4=132(LC 4), 2=307(LC 4), 5=244(LC 5)
Max Grav 4=152(LC 1), 2=529(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-718/492
BOT CHORD 2-7=-535/651, 6-7=-535/651
WEBS 3-7=-126/283, 3-6=-699/574

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 100 lb uplift at joint(s) except (jt=lb) 4=132, 2=307, 5=244.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 87 lb down and 65 lb up at 1-6-1, 87 lb down and 65 lb up at 1-6-1, 28 lb down and 59 lb up at 4-4-0, 28 lb down and 59 lb up at 4-4-0, and 52 lb down and 113 lb up at 7-1-15, and 52 lb down and 113 lb up at 7-1-15 on top chord, and 55 lb down and 37 lb up at 1-6-1, 55 lb down and 37 lb up at 1-6-1, 20 lb down and 37 lb up at 4-4-0, 20 lb down and 37 lb up at 4-4-0, and 42 lb down and 65 lb up at 7-1-15, and 42 lb down and 65 lb up 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

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Date:

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441170
3926198	HJ10A	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:09 2024 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-9(F=-5, B=-5) 12=-70(F=-35, B=-35) 15=-62(F=-31, B=-31)

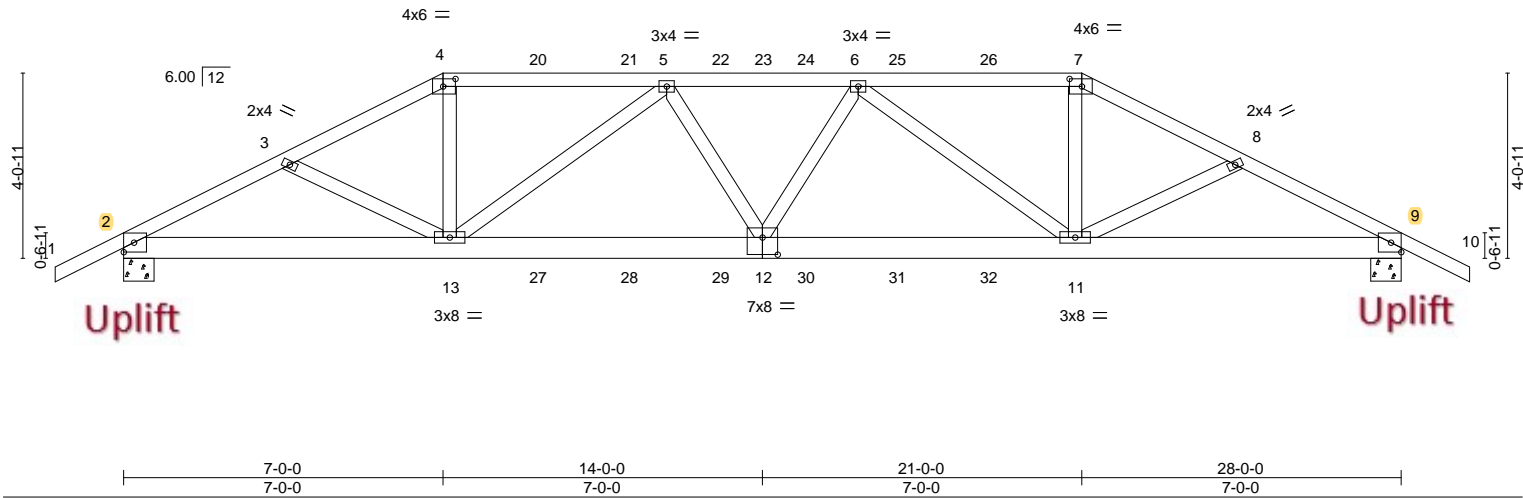
 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.**

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441171
3926198	T01	Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:09 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-D1j?lvhJj8akwGuRCPe6nEKCy2nIPXiNtGTgvxzURWu
-1-6-0 3-7-11 7-0-0 11-10-13 16-1-3 21-0-0 24-4-5 28-0-0 29-6-0
1-6-0 3-7-11 3-4-5 4-10-13 4-2-6 4-10-13 3-4-5 3-7-11 1-6-0
Scale = 1:50.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	0.31 12-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.41 11-12 >822 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.11 9 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 165 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 1-11-14 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 4-7-7 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 9=0-8-0
Max Horz 2=92(LC 8)
Max Uplift 2=1213(LC 8), 9=1242(LC 9)
Max Grav 2=2101(LC 1), 9=2139(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3876/2278, 3-4=-3762/2230, 4-5=-3396/2067, 5-6=-4494/2626, 6-7=-3465/2119, 7-8=-3841/2291, 8-9=-3954/2338
BOT CHORD 2-13=-2019/3395, 12-13=-2506/4359, 11-12=-2516/4380, 9-11=-1981/3464
WEBS 3-13=-210/253, 4-13=-658/1249, 5-13=-1267/803, 5-12=-112/372, 6-12=-62/352, 6-11=-1195/729, 7-11=-612/1208, 8-11=-213/256

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1213, 9=1242.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 136 lb up at 7-0-0, 108 lb down and 136 lb up at 9-0-12, 108 lb down and 136 lb up at 11-0-12, 108 lb down and 136 lb up at 13-0-12, 108 lb down and 136 lb up at 14-11-4, 108 lb down and 136 lb up at 16-11-4, and 108 lb down and 136 lb up at 18-11-4, and 231 lb down and 268 lb up at 21-0-0 on top chord, and 335 lb down and 286 lb up at 7-0-0, 85 lb down and 33 lb up at 9-0-12, 85 lb down and 33 lb up at 11-0-12, 85 lb down and 33 lb up at 13-0-12, 85 lb down and 33 lb up at 14-11-4, 85 lb down and 33 lb up at 16-11-4, and 85 lb down and 33 lb up at 18-11-4, and 335 lb down and 286 lb up at 20-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441171
3926198	T01	Hip Girder	1	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:10 2024 Page 2
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-hDHOVFhxURibYQTdm79LJSsNiS6X8_yW5wCDROzURWt

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, 7-10=-54, 14-17=-20
- Concentrated Loads (lb)
Vert: 4=-108(B) 7=-184(B) 13=-335(B) 11=-335(B) 20=-108(B) 21=-108(B) 22=-108(B) 24=-108(B) 25=-108(B) 26=-108(B) 27=-66(B) 28=-66(B) 29=-66(B)
30=-66(B) 31=-66(B) 32=-66(B)

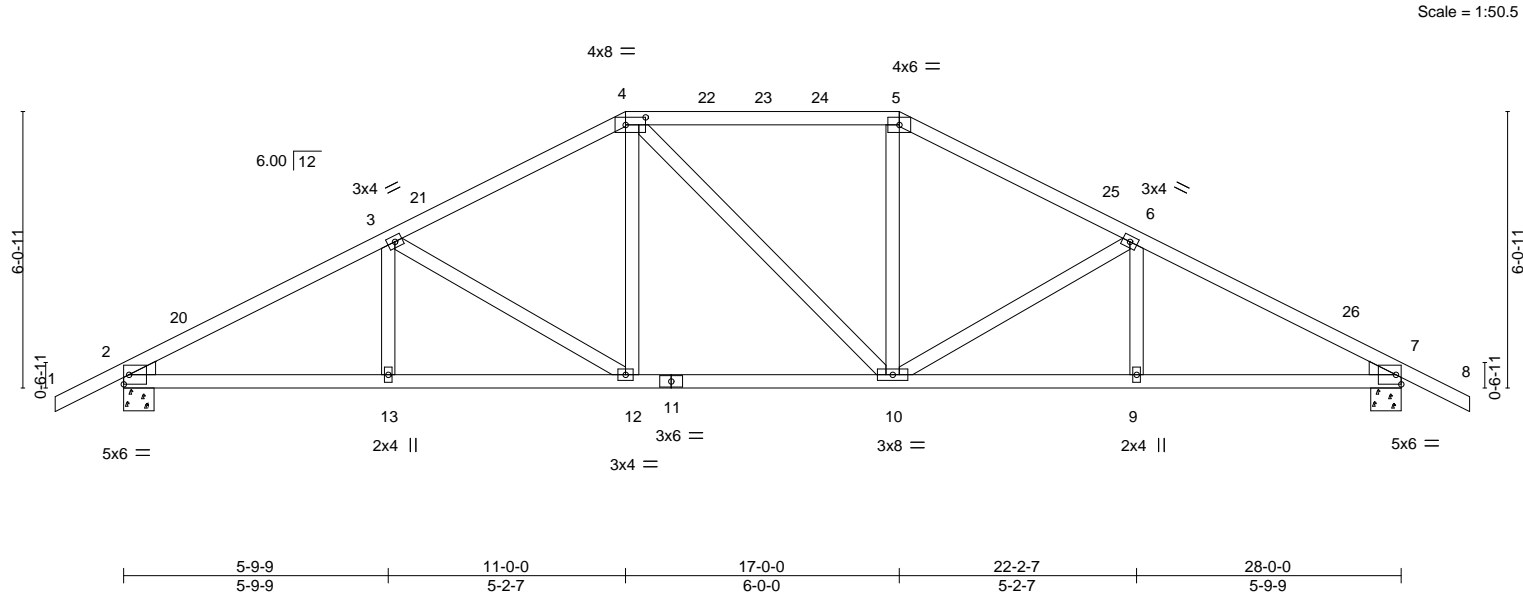
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441173
3926198	T03	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:11 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-9QqmbiZFlrS9a2qJqhasfPftSzdtafgKayn_qzURWs



LOADING (psf)		SPACING-		CSL		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.08 12-13 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.16 12-13 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.06 7 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS				Weight: 148 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-3 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-6-5 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS.	
(size)	2=0-8-0, 7=0-8-0
Max Horz	2=135(LC 12)
Max Uplift	2=-460(LC 12), 7=-460(LC 13)
Max Grav	2=1117(LC 1), 7=1117(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1771/676, 3-4=-1416/596, 4-5=-1217/583, 5-6=-1417/596, 6-7=-1771/677
BOT CHORD	2-13=-621/1524, 12-13=-621/1524, 10-12=-380/1216, 9-10=-507/1524, 7-9=-507/1524
WEBS	3-12=-377/283, 4-12=-111/366, 5-10=-98/366, 6-10=-377/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 29-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=460, 7=460.

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Chesterfield, MO 63017
Date:

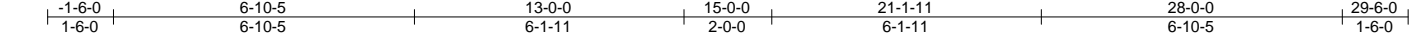
April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441174
3926198	T04	Hip	1	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:11 2024 Page 1

ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-9QqmjbizF1rS9a2qJghasfPgSsaDtWngKayn_qzURWs



Scale = 1:52.5

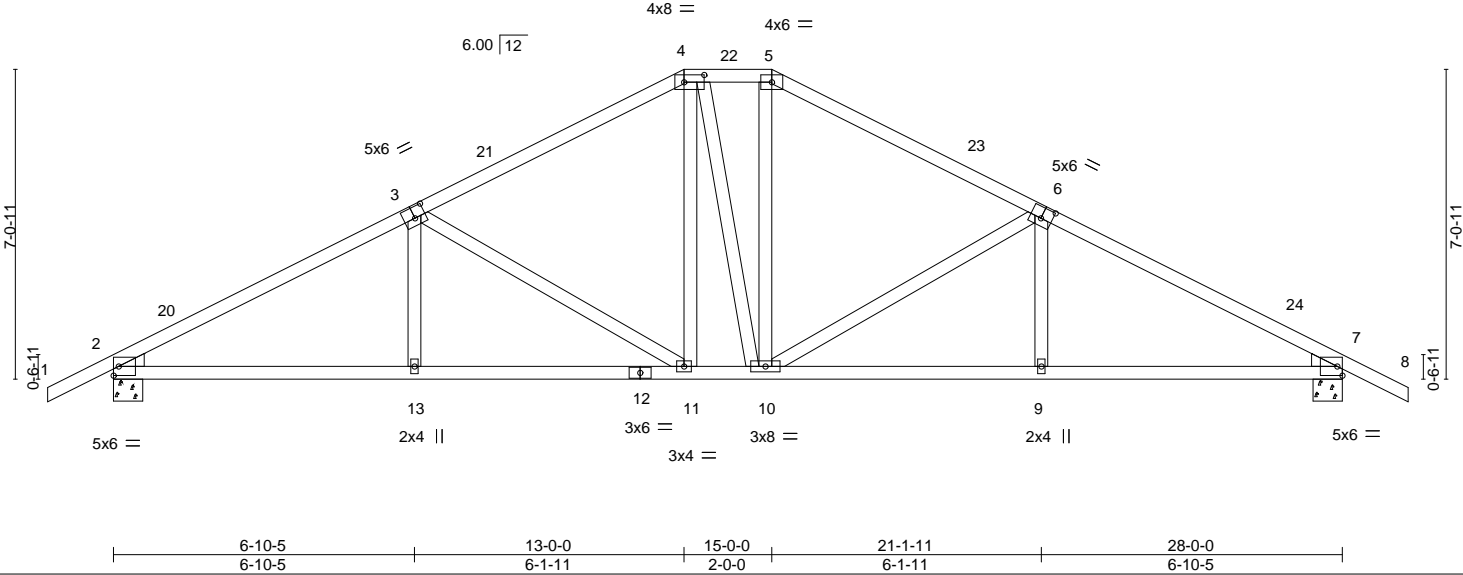


Plate Offsets (X,Y)--		[3:0-3-0,0-3-0], [4:0-5-8,0-2-0], [6:0-3-0,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.41		Vert(LL)	-0.08 11-13	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.49		Vert(CT)	-0.18 11-13	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.52		Horz(CT)	0.06 7	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 155 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-11 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-5-13 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			
Left: 2x4 SP No.3 , Right: 2x4 SP No.3			

REACTIONS. (size) 2=0-8-0, 7=0-8-0
Max Horz 2=156(LC 12)
Max Uplift 2=455(LC 12), 7=455(LC 13)
Max Grav 2=1117(LC 1), 7=1117(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1755/656, 3-4=-1279/544, 4-5=-1077/540, 5-6=-1280/545, 6-7=-1754/656
BOT CHORD 2-13=-613/1504, 11-13=-613/1506, 10-11=-302/1075, 9-10=-474/1505, 7-9=-475/1504
WEBS 3-13=0/256, 3-11=-520/362, 4-11=-150/336, 5-10=-155/339, 6-10=-518/362, 6-9=0/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-0-0, Zone3 13-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=455, 7=455.

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Date:

April 4,2024

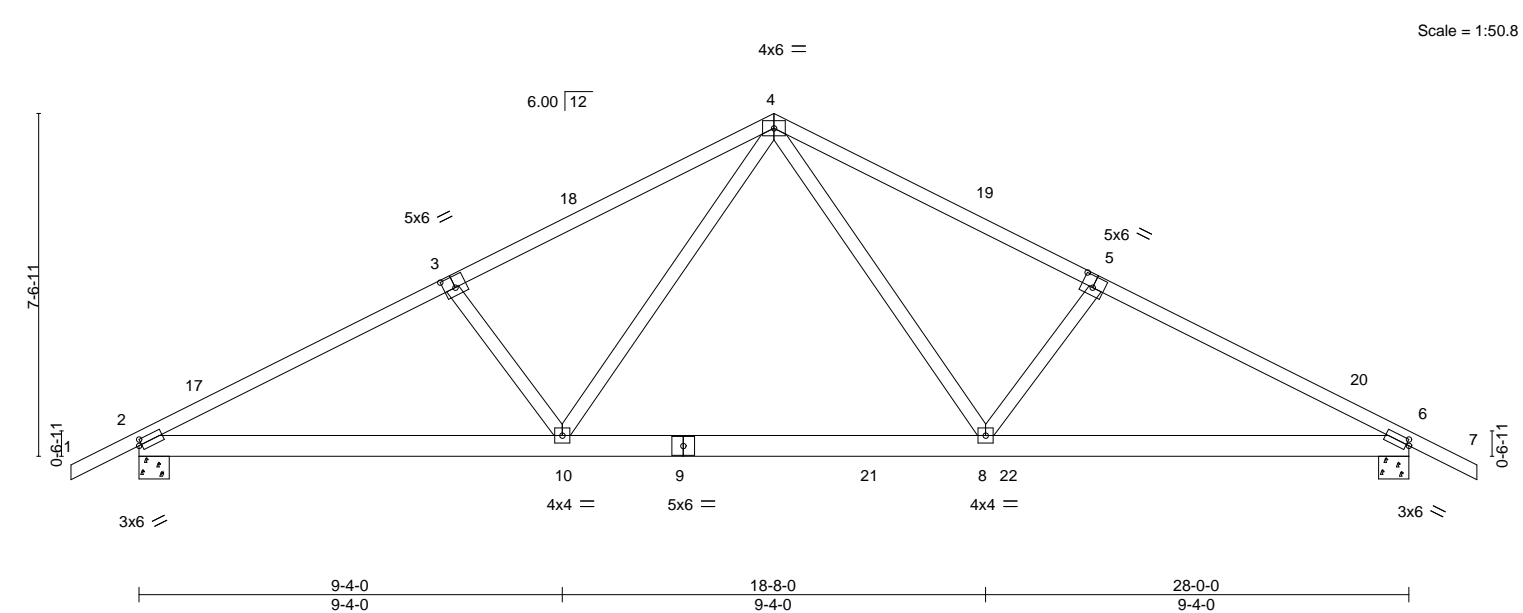
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441175
3926198	T05	Common	10	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:12 2024 Page 1
ID:z3ohkPVXkHLTnshACgKTS0zX8iQ-dcO8wwjB03zJnkd0tYcP0tymSGpDcxlpZEhKWGzURWr



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	0.28 8-10 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.44 8-10 >768 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.05 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 154 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1 *Except* 1-3,5-7: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-6-1 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-8-0, 6=0-8-0
Max Horz	2=-167(LC 13)
Max Uplift	2=-591(LC 12), 6=-596(LC 13)
Max Grav	2=1453(LC 2), 6=1462(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2510/1127, 3-4=-2349/1119, 4-5=-2367/1133, 5-6=-2529/1141
BOT CHORD	2-10=-923/2226, 8-10=-501/1496, 6-8=-916/2205
WEBS	4-8=-480/1090, 5-8=-350/353, 4-10=-463/1057, 3-10=-350/353

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 29-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=591, 6=596.
 - 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, 10-22=-80(F=-60), 14-22=-20	

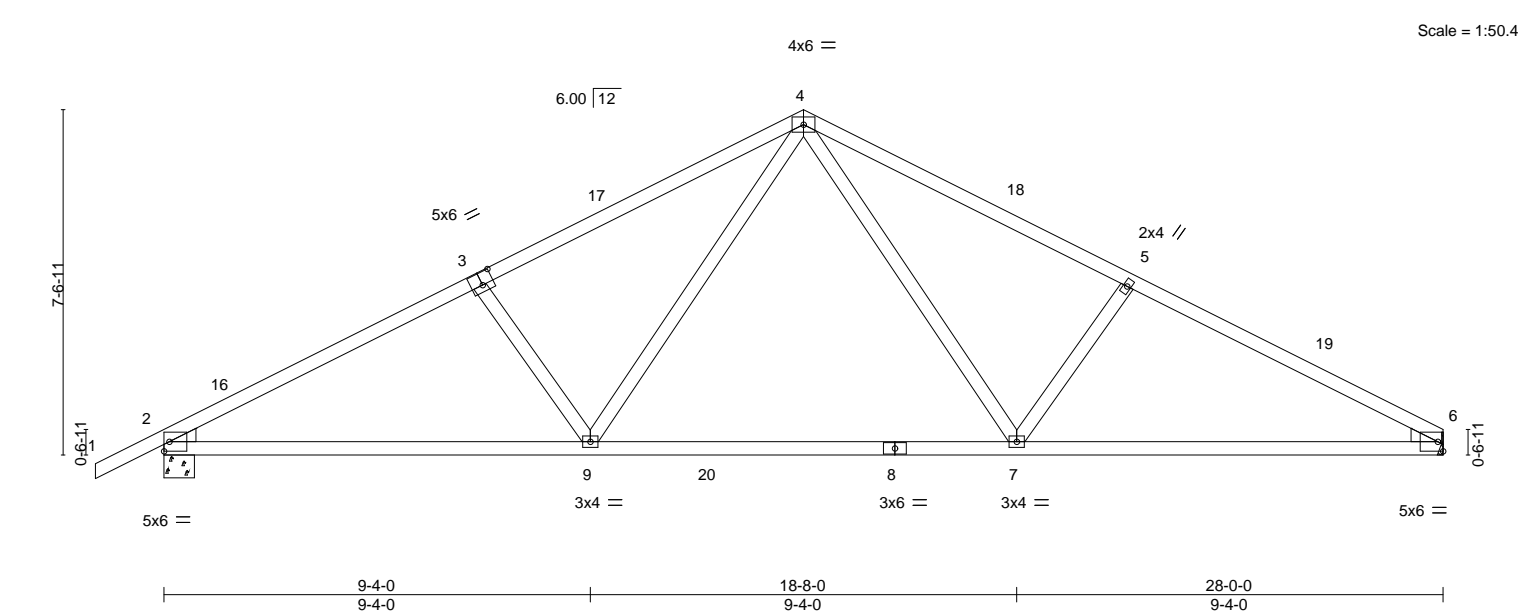
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441176
3926198	T06	Common	3	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:12 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-dcO8wwjB03zJnk0tYCP0tyobGpic?UpZEhKWGzURWr



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.29 7-9 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.45 7-9 >740 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.06 6 n/a n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							
								Weight: 130 lb		FT = 20%	

LUMBER-			BRACING-		
TOP CHORD	2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins.	
BOT CHORD	2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.	
WEBS	2x4 SP No.3				
WEDGE					
Left: 2x4 SP No.3 , Right: 2x4 SP No.3					

REACTIONS.		(size)	2=0-8-0, 6=Mechanical
		Max Horz	2=183(LC 16)
		Max Uplift	2=453(LC 12), 6=399(LC 13)
		Max Grav	2=1205(LC 2), 6=1135(LC 2)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-1896/690, 3-4=-1741/684, 4-5=-1745/709, 5-6=-1905/719	
BOT CHORD	2-9=-646/1646, 7-9=-290/1106, 6-7=-536/1658	
WEBS	4-7=-299/733, 5-7=-372/365, 4-9=-295/728, 3-9=-364/359	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 14-0-0, Zone2 14-0-0 to 18-2-15, Zone1 18-2-15 to 28-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=453, 6=399.

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:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441177
3926198	T07	Roof Special Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:15 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-2B4GZyl4J_LueBMbYglW0VaGRTyUpDZFFCw_7bzURWo
1-6-0 6-11-0 14-0-0 21-0-0 26-1-10 31-3-3 36-4-13 41-6-6 46-8-0 49-11-5 53-8-0 55-2-0
1-6-0 6-11-0 7-1-0 7-0-0 5-1-10 5-1-10 5-1-10 5-1-10 5-1-10 3-3-5 3-8-11 1-6-0

Scale = 1:97.7

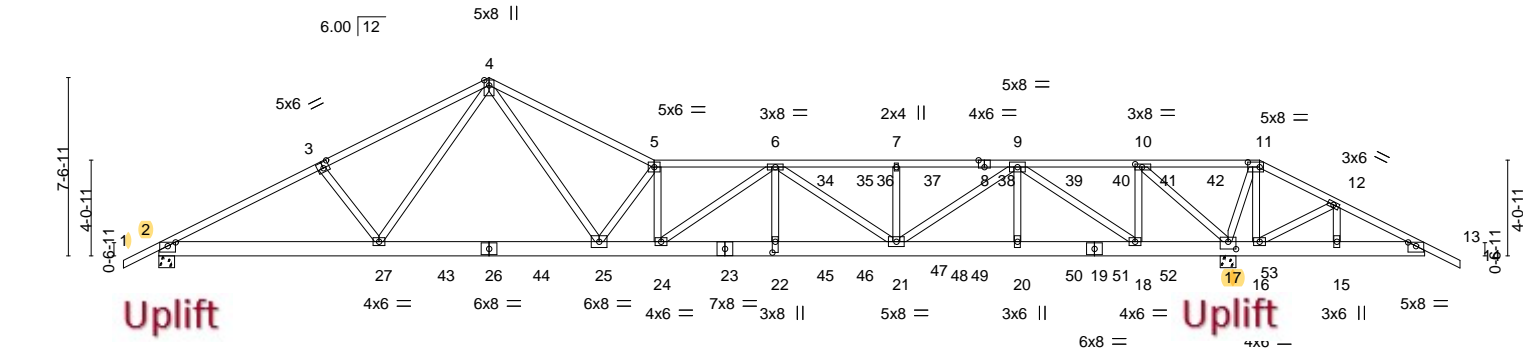


Plate Offsets (X,Y)--	[2:0-4-0,0-1-15], [3:0-3-0,0-3-0], [8:0-3-0,Edge], [10:0-3-8,0-1-8], [11:0-6-0,0-2-8], [13:0-4-0,0-1-15], [17:0-4-0,0-3-12], [22:0-5-8,0-1-8]
-----------------------	---

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.80	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.47	Vert(LL) 0.57 22-24 >956 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.92	Vert(CT) -0.80 21-22 >683 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.09 17 n/a n/a		
	Code FBC2023/TP12014			Weight: 747 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 3-4,4-5: 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except* 4-27,4-25: 2x4 SP No.2	6-0-0 oc bracing: 16-17,15-16,13-15.

REACTIONS. (size) 2=0-8-0, 17=0-8-0
Max Horz 2=-167(LC 30)
Max Uplift 2=-1345(LC 5), 17=-3025(LC 5)
Max Grav 2=2729(LC 2), 17=5239(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5249/2599, 3-4=-5093/2600, 4-5=-8363/4335, 5-6=-10292/5380, 6-7=-10405/5652,
7-9=-10405/5652, 9-10=-2850/1770, 10-11=-413/848, 11-12=-359/802, 12-13=-233/469
BOT CHORD 2-27=-2344/4640, 25-27=-2025/4119, 24-25=-5291/10274, 22-24=-6165/11806,
21-22=-6165/11806, 20-21=-4063/7245, 18-20=-4063/7245, 17-18=-1695/2850,
16-17=-690/484, 15-16=-386/286, 13-15=-386/286
WEBS 3-27=-342/359, 4-27=-431/744, 4-25=-3179/6051, 5-25=-5215/2801, 5-24=-561/606,
6-24=-1999/1236, 6-22=-728/1771, 6-21=-1713/720, 7-21=-561/469, 9-21=-1850/3864,
9-20=-154/485, 9-18=-5373/2896, 10-18=-1498/2998, 10-17=-5065/2886, 11-17=-455/393,
11-16=-401/229, 12-16=-353/225

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever right exposed ; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

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:

April 4,2024

Continued on page 2.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441177
3926198	T07	Roof Special Girder	1	2	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:15 2024 Page 2
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-2B4GZyl4J_LueBMbYglW0VaGRTyUpDZFFCw_7bzURWo

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down and 62 lb up at 28-0-12, 148 lb down and 136 lb up at 28-7-4, 148 lb down and 136 lb up at 30-7-4, 148 lb down and 136 lb up at 32-7-4, 148 lb down and 136 lb up at 34-7-4, 148 lb down and 136 lb up at 36-7-4, 148 lb down and 136 lb up at 38-7-4, 148 lb down and 136 lb up at 40-7-4, 148 lb down and 136 lb up at 42-7-4, and 148 lb down and 136 lb up at 44-7-4, and 281 lb down and 269 lb up at 46-8-0 on top chord, and 1692 lb down and 676 lb up at 28-0-12, 85 lb down and 33 lb up at 28-7-4, 85 lb down and 33 lb up at 30-7-4, 85 lb down and 33 lb up at 32-7-4, 85 lb down and 33 lb up at 34-7-4, 85 lb down and 33 lb up at 36-7-4, 85 lb down and 33 lb up at 38-7-4, 85 lb down and 33 lb up at 40-7-4, 85 lb down and 33 lb up at 42-7-4, and 85 lb down and 33 lb up at 44-7-4, and 335 lb down and 311 lb up at 46-7-4 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, 4-5=-54, 5-11=-54, 11-14=-54, 28-31=-20

Concentrated Loads (lb)

Vert: 11=-184(B) 20=-66(B) 9=-108(B) 16=-335(B) 34=-25(B) 35=-108(B) 36=-108(B) 37=-108(B) 38=-108(B) 39=-108(B) 40=-108(B) 41=-108(B) 42=-108(B) 45=-1585(B) 46=-66(B) 47=-66(B) 48=-66(B) 49=-66(B) 50=-66(B) 51=-66(B) 52=-66(B) 53=-66(B)

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

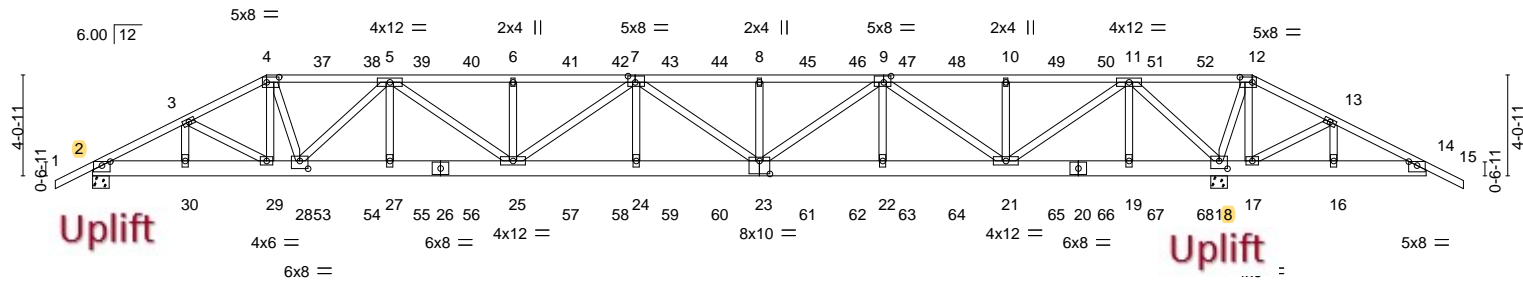
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441178
3926198	T07A	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:20 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-O8t9cgpC7WzAkyEYLDLhZ7QUi5Uve_PUdloozURWj
1-6-0 3-8-11 7-0-0 11-11-8 16-11-0 21-10-8 26-10-0 31-9-8 36-9-0 41-8-8 46-8-0 49-11-5 53-8-0 55-2-0
1-6-0 3-8-11 3-3-5 4-11-8 4-11-8 4-11-8 4-11-8 4-11-8 4-11-8 4-11-8 4-11-8 3-3-5 3-8-11 1-6-0

Scale = 1:92.7



3-8-11	7-0-0	8-4-0	11-11-8	16-11-0	21-10-8	26-10-0	31-9-8	36-9-0	41-8-8	45-8-0	46-8-0	49-11-5	53-8-0
3-8-11	3-3-5	1-4-0	3-7-8	4-11-8	4-11-8	4-11-8	4-11-8	4-11-8	4-11-8	3-11-8	1-0-0	3-3-5	3-8-11
Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [4:0-6-0,0-2-8], [7:0-3-8,0-3-0], [9:0-3-8,0-3-0], [12:0-6-0,0-2-8], [14:0-4-0,0-1-15], [18:0-4-0,0-3-12], [23:0-5-0,0-6-4], [28:0-4-0,0-3-12]													

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.78	Vert(LL) 0.71	23-24	>769	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.31	Vert(CT) -0.85	23-24	>641	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.87	Horz(CT) 0.10	18	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014	Matrix-MS					Weight: 769 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-8-0, 18=0-8-0
	Max Horz 2=92(LC 8)
	Max Uplift 2=-2148(LC 5), 18=-3141(LC 5)
	Max Grav 2=3435(LC 21), 18=5005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-6386/4074, 3-4=-6766/4366, 4-5=-6736/4374, 5-6=-10469/6768, 6-7=-10469/6768, 7-8=-10710/6893, 8-9=-10710/6893, 9-10=-6559/4187, 10-11=-6559/4187, 11-12=-435/900, 12-13=-364/814, 13-14=-233/465
BOT CHORD	2-30=-3628/5666, 29-30=-3628/5666, 28-29=-3872/6055, 27-28=-5727/8940, 25-27=-5727/8940, 24-25=-7263/11366, 23-24=-7266/11373, 22-23=-5937/9359, 21-22=-5934/9353, 19-21=-1825/2943, 18-19=-1825/2943, 17-18=-696/487, 16-17=-382/286, 14-16=-382/286
WEBS	3-30=-518/346, 3-29=-435/526, 4-29=-507/791, 4-28=-1231/1965, 5-28=-3111/2016, 5-27=-237/551, 5-25=-1195/1891, 6-25=-497/413, 7-25=-1114/708, 7-24=-284/624, 7-23=-879/565, 8-23=-538/449, 9-23=-1087/1744, 9-22=-245/578, 9-21=-3523/2261, 10-21=-499/414, 11-21=-2901/4557, 11-19=-16/252, 11-18=-4760/3087, 12-18=-589/446, 12-17=-257/166, 13-17=-349/233

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 0-7-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.	
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.	
3) Unbalanced roof live loads have been considered for this design.	
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; cantilever right exposed; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60	
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.	
6) Provide adequate drainage to prevent water ponding.	
7) All plates are 3x6 MT20 unless otherwise indicated.	
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.	

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 Swingle Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

Continued on page 2	
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.	
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)	
MiTek® 16023 Swingle Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com	

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441178
3926198	T07A	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.730 s
Mar 21 2024
MiTek Industries, Inc.
Wed Apr 3 11:33:20 2024
Page 2
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-O8t9cgpC7WzAkyEYLDLhjZH7QUi5UVe_PUdl0ozURWj

- NOTES-**
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=2148, 18=3141.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 136 lb up at 7-0-0, 108 lb down and 136 lb up at 9-0-12, 108 lb down and 136 lb up at 11-0-12, 108 lb down and 136 lb up at 13-0-12, 108 lb down and 136 lb up at 15-0-12, 108 lb down and 136 lb up at 17-0-12, 108 lb down and 136 lb up at 19-0-12, 108 lb down and 136 lb up at 21-0-12, 108 lb down and 136 lb up at 23-0-12, 108 lb down and 136 lb up at 25-0-12, 108 lb down and 125 lb up at 26-10-0, 108 lb down and 136 lb up at 28-7-4, 108 lb down and 136 lb up at 30-7-4, 108 lb down and 136 lb up at 32-7-4, 108 lb down and 136 lb up at 34-7-4, 108 lb down and 136 lb up at 36-7-4, 108 lb down and 136 lb up at 38-7-4, 108 lb down and 136 lb up at 40-7-4, 108 lb down and 136 lb up at 42-7-4, and 108 lb down and 136 lb up at 44-7-4, and 231 lb down and 269 lb up at 46-8-0 on top chord, and 335 lb down and 286 lb up at 7-0-0, 85 lb down and 33 lb up at 9-0-12, 85 lb down and 33 lb up at 11-0-12, 85 lb down and 33 lb up at 13-0-12, 85 lb down and 33 lb up at 15-0-12, 85 lb down and 33 lb up at 17-0-12, 85 lb down and 33 lb up at 19-0-12, 85 lb down and 33 lb up at 21-0-12, 85 lb down and 33 lb up at 23-0-12, 85 lb down and 33 lb up at 25-0-12, 85 lb down and 33 lb up at 26-10-0, 85 lb down and 33 lb up at 28-7-4, 85 lb down and 33 lb up at 30-7-4, 85 lb down and 33 lb up at 32-7-4, 85 lb down and 33 lb up at 34-7-4, 85 lb down and 33 lb up at 36-7-4, 85 lb down and 33 lb up at 38-7-4, 85 lb down and 33 lb up at 40-7-4, 85 lb down and 33 lb up at 42-7-4, and 85 lb down and 33 lb up at 44-7-4, and 335 lb down and 311 lb up at 46-7-4 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, 31-34=-20
- Concentrated Loads (lb)
- Vert: 4=-108(F) 12=-184(F) 29=-335(F) 25=-66(F) 6=-108(F) 23=-66(F) 8=-108(F) 10=-108(F) 21=-66(F) 17=-335(F) 37=-108(F) 38=-108(F) 39=-108(F) 40=-108(F) 41=-108(F) 42=-108(F) 43=-108(F) 44=-108(F) 45=-108(F) 46=-108(F) 47=-108(F) 48=-108(F) 49=-108(F) 50=-108(F) 51=-108(F) 52=-108(F) 53=-66(F) 54=-66(F) 55=-66(F) 56=-66(F) 57=-66(F) 58=-66(F) 59=-66(F) 60=-66(F) 61=-66(F) 62=-66(F) 63=-66(F) 64=-66(F) 65=-66(F) 66=-66(F) 67=-66(F) 68=-66(F)

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

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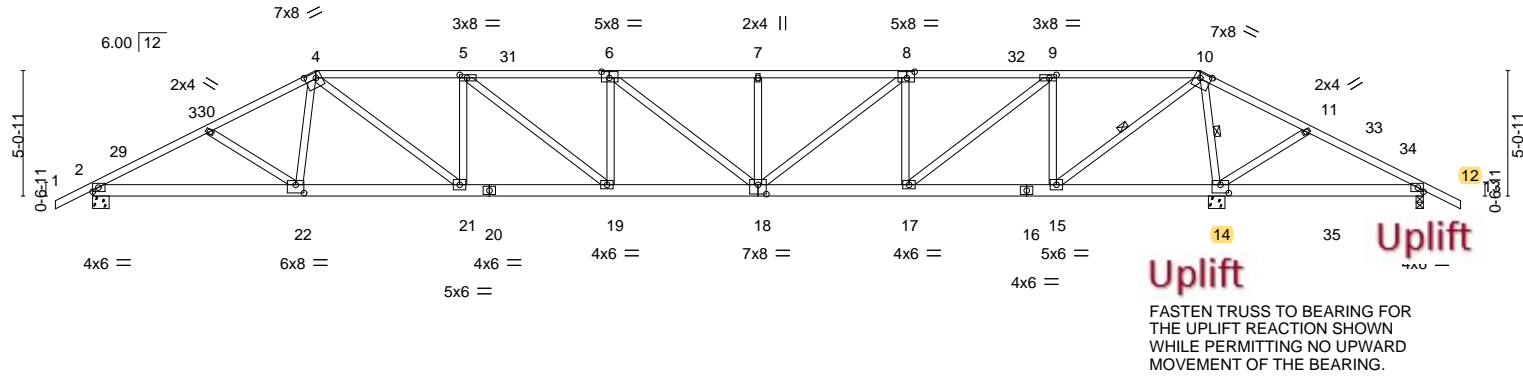
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441179
3926198	T08	Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:21 2024 Page 1
ID:z3ohkPVXhLTnshACqKTS0zX8iQ-tLRYp?qqqu51M6plvxswGmplmu_IDw38d8NJKFzURWi

1-6-0 4-8-11 9-0-0 14-11-5 20-10-11 26-10-0 32-9-5 38-8-11 44-8-0 48-11-5 53-8-0 55-2-0
1-6-0 4-8-11 4-3-5 5-11-5 5-11-5 5-11-5 5-11-5 5-11-5 5-11-5 4-3-5 4-8-11 1-6-0

Scale = 1:92.9



8-4-0	14-11-5	20-10-11	26-10-0	32-9-5	38-8-11	45-4-0	53-8-0
8-4-0	6-7-5	5-11-5	5-11-5	5-11-5	5-11-5	6-7-5	8-4-0
Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [5:0-3-8,0-1-8], [6:0-3-12,0-3-0], [8:0-3-12,0-3-0], [9:0-3-8,0-1-8], [10:0-5-4,0-2-8], [14:0-4-0,0-4-0], [18:0-4-0,0-4-8], [22:0-4-0,0-4-0]							

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	0.34 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.52 18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-MS					Weight: 335 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-10-9 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 10-15, 10-14

REACTIONS. (size) 2=0-8-0, 14=0-8-0, 12=0-3-8
Max Horz 2=113(LC 12)
Max Uplift 2=688(LC 12), **14=1523(LC 8)**, 12=1006(LC 25)
Max Grav 2=1546(LC 25), 14=3382(LC 1), 12=394(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2728/1203, 3-4=-2523/1105, 4-5=-2943/1373, 5-6=-3111/1475, 6-7=-2728/1314, 7-8=-2728/1314, 8-9=-1797/898, 9-10=-297/289, 10-11=-1080/2508, 11-12=-1059/2345
BOT CHORD 2-22=-1083/2385, 21-22=-885/2174, 19-21=-1283/2943, 18-19=-1384/3111, 17-18=-797/1785, 15-17=-103/297, 14-15=-1763/834, 12-14=-2065/970
WEBS 4-22=-62/330, 4-21=-551/1047, 5-21=-517/369, 5-19=-170/280, 6-18=-491/346, 7-18=-328/252, 8-18=-583/1201, 8-17=-1053/573, 9-17=-892/1921, 9-15=-1533/819, 10-15=-1193/2587, 10-14=-2981/1353, 11-14=-315/291

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 9-0-0, Zone2 9-0-0 to 16-7-1, Zone1 16-7-1 to 44-8-0, Zone2 44-8-0 to 52-3-1, Zone1 52-3-1 to 55-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=688, 14=1523, 12=1006.
 - This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

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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Chesterfield, MO 63017
Date:

April 4,2024

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

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441180
3926198	T09	Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:22 2024 Page 1					
ID:z3ohkPVXkHLTnshACqKTS0zX8lQ-LX?w1LrTf7Du_GOxTeN9o_MRNlJyN6Hso6sshzURWh									
1-6-0	5-8-11	11-0-0	18-11-14	26-10-0	34-8-2	42-8-0	47-11-5	53-8-0	55-2-0
1-6-0	5-8-11	5-3-5	7-11-14	7-10-2	7-10-2	7-11-14	5-3-5	5-8-11	1-6-0

Scale = 1:92.9

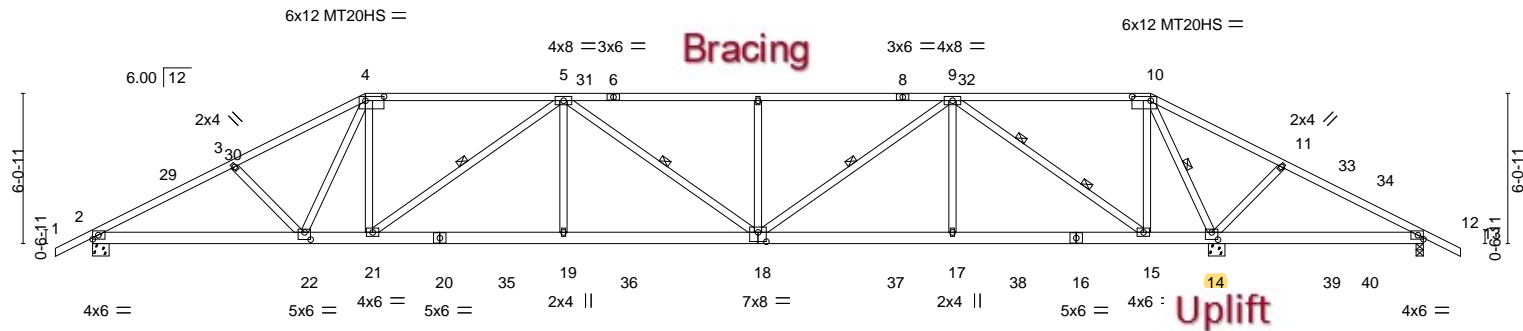


Plate Offsets (X,Y)--	8-4-0	11-0-0	18-11-14	26-10-0	34-8-2	42-8-0	45-4-0	53-8-0
	8-4-0	2-8-0	7-11-14	7-10-2	7-10-2	7-11-14	2-8-0	8-4-0

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.94	Vert(LL)	-0.29 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.63	Vert(CT)	-0.49 18-19	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT)	0.11 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 338 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-6-11 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-21, 5-18, 9-18, 10-14
	2 Rows at 1/3 pts 9-15

REACTIONS.	(size) 2=0-8-0, 14=0-8-0, 12=0-3-8
	Max Horz 2=135(LC 13)
	Max Uplift 2=705(LC 12), 14=1257(LC 8), 12=635(LC 27)
	Max Grav 2=1742(LC 27), 14=3248(LC 2), 12=226(LC 12)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3073/1218, 3-4=-2906/1155, 4-5=-2451/1039, 5-7=-2856/1203, 7-9=-2856/1203, 9-10=-140/440, 10-11=-668/1828, 11-12=-669/1695
BOT CHORD	2-22=-1107/2700, 21-22=-863/2433, 19-21=-1194/3156, 18-19=-1194/3156, 17-18=-648/1735, 15-17=-648/1735, 14-15=-465/322, 12-14=-1488/632
WEBS	3-22=-260/272, 4-22=-134/342, 4-21=-275/773, 5-21=-956/472, 5-19=0/415, 5-18=-422/295, 7-18=-402/307, 9-18=-600/1387, 9-17=0/429, 9-15=-2665/1100, 10-15=-505/1572, 10-14=-2854/1051, 11-14=-307/290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 11-0-0, Zone2 11-0-0 to 18-7-1, Zone1 18-7-1 to 42-8-0, Zone2 42-8-0 to 50-3-1, Zone1 50-3-1 to 55-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=705, 14=1257, 12=635.

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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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441181
3926198	T10	Hip	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:23 2024 Page 1					
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-pjZIEhs5QRLbQz70LuOLBvgShephr3R5SsPP7zURWg									
1-6-0	6-8-11	13-0-0	19-11-14	26-10-0	33-8-2	40-8-0	46-11-5	53-8-0	55-2-0
1-6-0	6-8-11	6-3-5	6-11-14	6-10-2	6-10-2	6-11-14	6-3-5	6-8-11	1-6-0

Scale = 1:94.5

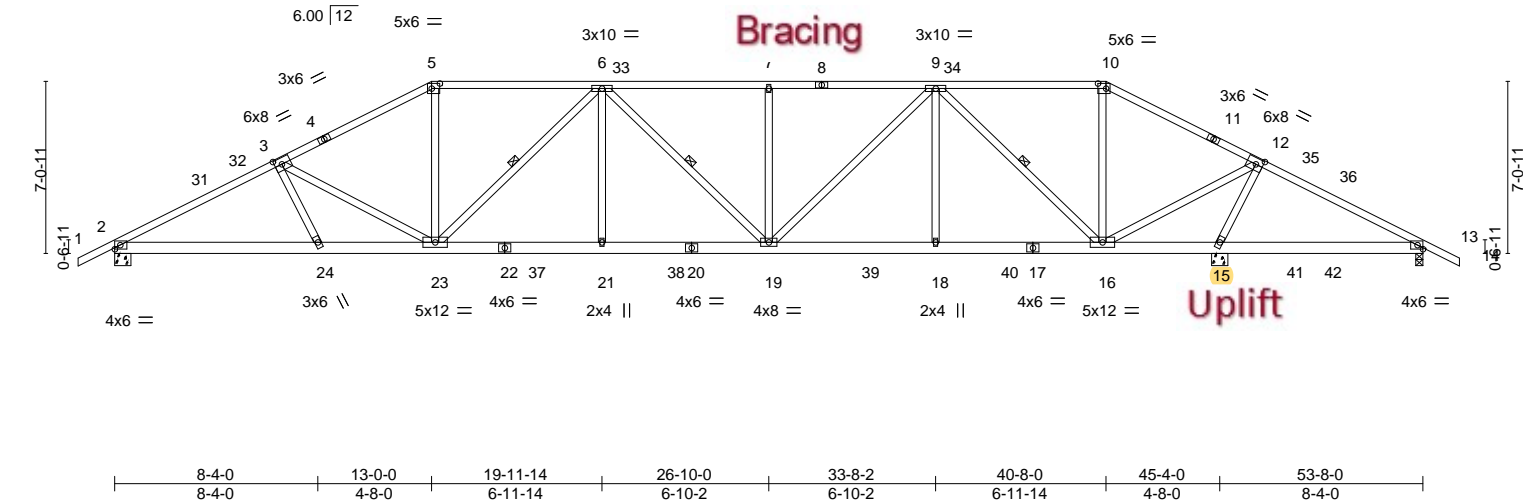


Plate Offsets (X,Y)--	[3:0-3-8,0-3-0], [5:0-4-0,0-2-8], [10:0-4-0,0-2-8], [12:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.67	Vert(LL)	-0.25 19-21	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.63	Vert(CT)	-0.43 19-21	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT)	0.10 15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 347 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 4-6-11 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-23, 6-19, 9-16
3-23,12-16: 2x4 SP No.2	

REACTIONS.	(size) 2=0-8-0, 15=0-8-0, 13=0-3-8
	Max Horz 2=-156(LC 13)
	Max Uplift 2=-725(LC 12), 15=-1011(LC 8), 13=-305(LC 25)
	Max Grav 2=1823(LC 2), 15=2848(LC 2), 13=115(LC 12)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3231/1244, 3-5=-2790/1084, 5-6=-2455/1036, 6-7=-2742/1111, 7-9=-2742/1111, 9-10=-609/393, 10-12=-752/375, 12-13=-365/1021
BOT CHORD	2-24=-1140/2835, 23-24=-1111/2925, 21-23=-1045/2928, 19-21=-1045/2928, 18-19=-710/2016, 16-18=-710/2016, 15-16=-2060/784, 13-15=-888/364
WEBS	3-24=0/270, 3-23=-597/318, 5-23=-254/952, 6-23=-759/388, 6-21=0/380, 6-19=-324/241, 7-19=-352/267, 9-19=-465/1024, 9-18=0/401, 9-16=-1996/803, 12-16=-1045/3018, 12-15=-2763/1017

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 13-0-0, Zone2 13-0-0 to 20-7-1, Zone1 20-7-1 to 40-8-0, Zone2 40-8-0 to 48-3-1, Zone1 48-3-1 to 55-2-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=725, 15=1011, 13=305.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441182
3926198	T11	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:23 2024 Page 1					
ID:z3ohkPVxkHLTnshACqKTS0zX8iQ-pjZIEhs5QRLbQz70LuOLBvh_hhWhumR5SsPP72URWg									
1-6-0	7-8-11	15-0-0	20-11-0	26-10-0	32-9-0	38-8-0	45-11-5	53-8-0	55-2-0
1-6-0	7-8-11	7-3-5	5-11-0	5-11-0	5-11-0	5-11-0	7-3-5	7-8-11	1-6-0

Scale = 1:94.5

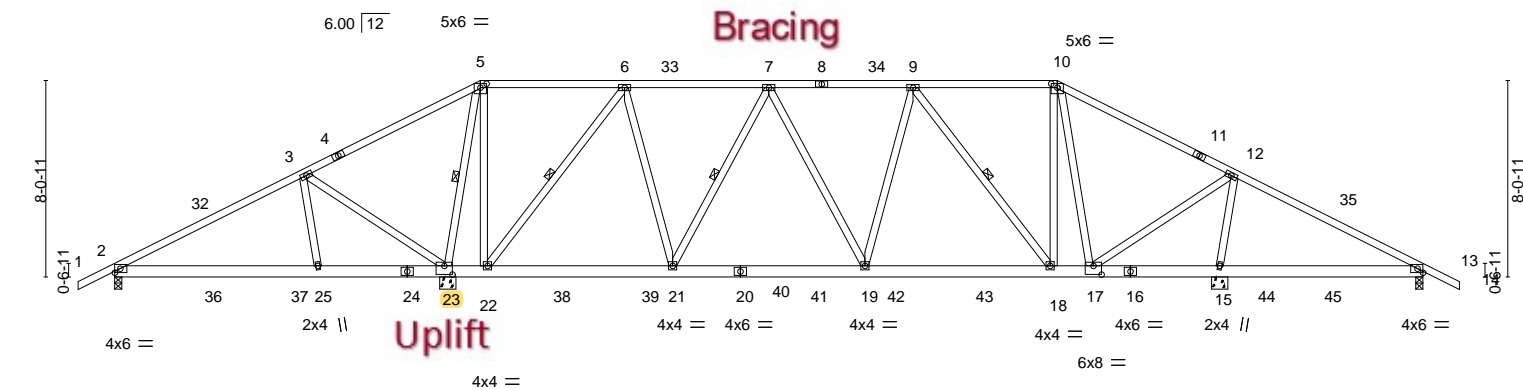


Plate Offsets (X,Y)--	[5:0-3-0,0-2-0], [10:0-3-0,0-2-0], [17:0-4-0,0-4-4], [23:0-4-0,0-4-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) -0.08	18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.39	Vert(CT) -0.14	18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.03	15	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 366 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-23, 6-22, 7-21, 9-18

REACTIONS.	All bearings 0-3-8 except (jt=length) 23=0-8-0, 15=0-8-0.
(lb) - Max Horz	2=178(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) except 2=193(LC 12), 23=906(LC 9), 15=653(LC 13), 13=170(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) except 2=421(LC 25), 23=2134(LC 2), 15=1693(LC 28), 13=314(LC 26)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-277/291, 3-5=-148/461, 6-7=-942/448, 7-9=-1216/559, 9-10=-802/473, 10-12=-839/414
BOT CHORD	2-25=-140/286, 23-25=-180/331, 22-23=-125/292, 21-22=-219/748, 19-21=-369/1144, 18-19=-360/1163, 17-18=-171/789, 15-17=-282/194
WEBS	3-25=-250/312, 3-23=-672/658, 5-23=-1543/548, 5-22=-324/1090, 6-22=-1300/565, 6-21=-204/794, 7-21=-454/271, 9-19=-26/266, 9-18=-629/309, 10-18=-216/728, 10-17=-643/232, 12-17=-316/1123, 12-15=-1369/658

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 15-0-0, Zone2 15-0-0 to 22-7-1, Zone1 22-7-1 to 38-8-0, Zone2 38-8-0 to 45-11-10, Zone1 45-11-10 to 55-2-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 906 lb uplift at joint 23, 653 lb uplift at joint 15 and 170 lb uplift at joint 13.

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:

April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441184
3926198	T13	Hip	1	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:25 2024 Page 1

ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-l6h2fNtLy2bTrk7W8mxsQc__LVPg9n0jYILWTOzURWe



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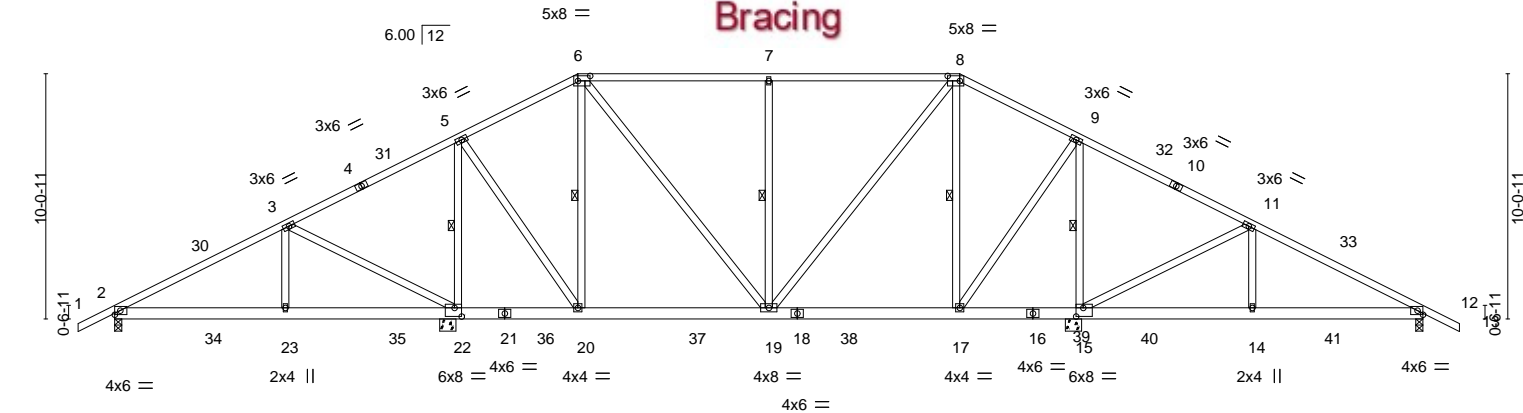


Plate Offsets (X,Y)--	[6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [15:0-3-8,0-4-4], [22:0-3-8,0-4-4]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.70	Vert(LL) -0.05	19-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.28	Vert(CT) -0.09	19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.80	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 372 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 20-22, 15-17.
	WEBS 1 Row at midpt 5-22, 6-20, 7-19, 8-17, 9-15

REACTIONS.	All bearings 0-3-8 except (jt=length) 22=0-8-0, 15=0-8-0.
(lb) - Max Horz	2=221(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) except 2=227(LC 9), 22=702(LC 12), 15=676(LC 8), 12=258(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) except 2=536(LC 27), 22=1761(LC 2), 15=1761(LC 2), 12=536(LC 28)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-565/397, 3-5=-94/286, 5-6=-447/274, 6-7=-635/386, 7-8=-635/386, 8-9=-447/317, 11-12=-565/401
BOT CHORD	2-23=-258/532, 22-23=-258/532, 20-22=-150/308, 19-20=-29/462, 17-19=-9/415, 15-17=-150/316, 14-15=-237/453, 12-14=-237/453
WEBS	3-23=-240/310, 3-22=-664/600, 5-22=-1220/548, 5-20=-248/856, 6-20=-476/257, 6-19=-229/478, 7-19=-493/379, 8-19=-229/478, 8-17=-476/256, 9-17=-248/856, 9-15=-1220/513, 11-15=-664/600, 11-14=-241/310

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 19-0-0, Zone2 19-0-0 to 26-10-0, Zone1 26-10-0 to 34-8-0, Zone2 34-8-0 to 42-3-1, Zone1 42-3-1 to 55-2-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 2, 702 lb uplift at joint 22, 676 lb uplift at joint 15 and 258 lb uplift at joint 12.

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:

April 4,2024

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

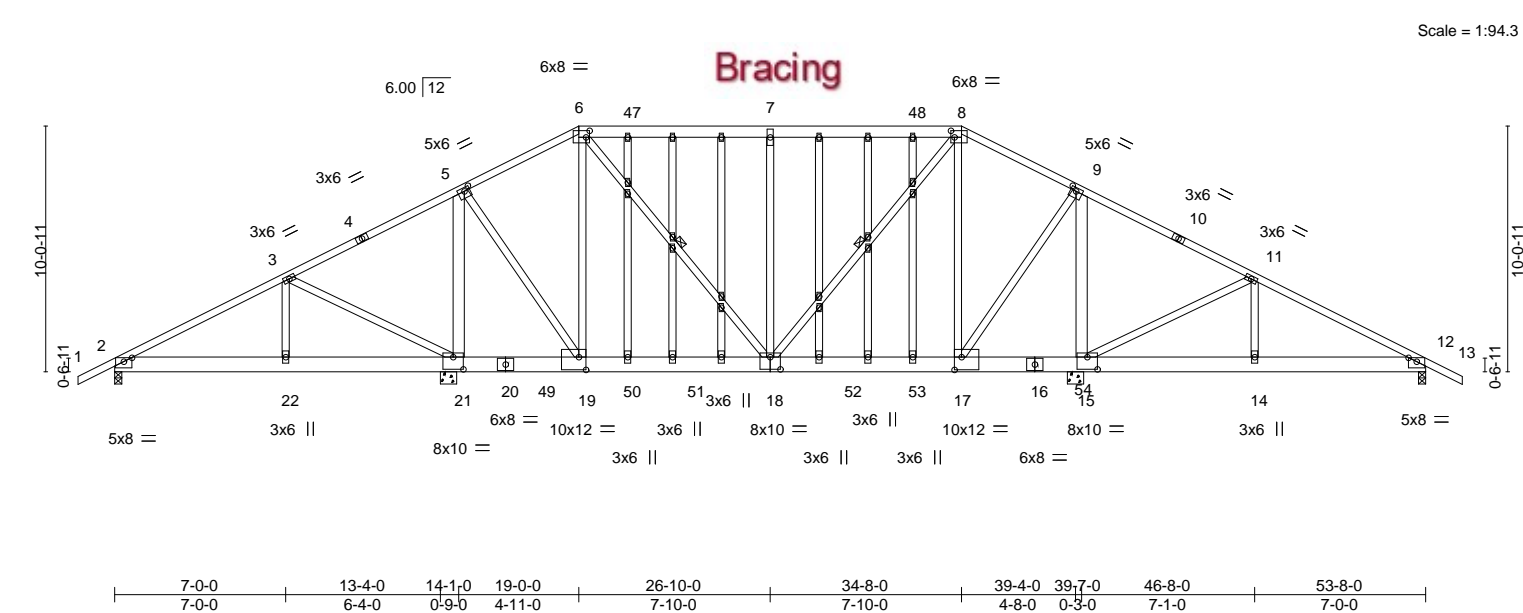
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441185
3926198	T14	GABLE	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:27 2024 Page 1					
ID:z3ohkPVXxHLTnshACqKtSOzX8iQ-hVop43vbUgsB41GuFBzKV13HMJ16deS003qdYuzURWc									
1-6-0	7-0-0	14-1-0	19-0-0	26-10-0	34-8-0	39-7-0	46-8-0	53-8-0	55-2-0
1-6-0	7-0-0	7-1-0	4-11-0	7-10-0	7-10-0	4-11-0	7-1-0	7-0-0	1-6-0



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 0.93	Vert(LL)	0.17 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.22 18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.99	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 946 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-8: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 19-21,15-17.
BOT CHORD 2x8 SP 2400F 2.0E	WEBS 1 Row at midpt 6-18, 8-18
WEBS 2x4 SP No.3 *Except* 5-21,9-15: 2x6 SP No.2, 5-19,9-17: 2x4 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS.	All bearings 0-3-8 except (jt=length) 21=0-8-0, 15=0-8-0.
(lb) - Max Horz 2=-219(LC 30)	
Max Uplift All uplift 100 lb or less at joint(s) except 2=-242(LC 26), 21=-4179(LC 5), 15=-4147(LC 4), 12=-258(LC 25)	
Max Grav All reactions 250 lb or less at joint(s) except 2=502(LC 23), 21=6994(LC 1), 15=6967(LC 1), 12=503(LC 24)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-486/237, 3-5=-139/321, 5-6=-3768/2351, 6-7=-5294/3454, 7-8=-5294/3454, 8-9=-3751/2345, 9-11=-102/302, 11-12=-499/272	
BOT CHORD 2-22=-273/558, 21-22=-273/558, 19-21=-213/376, 18-19=-1936/3295, 17-18=-1910/3280, 15-17=-210/345, 14-15=-160/428, 12-14=-160/428	
WEBS 3-22=-151/304, 3-21=-655/408, 5-21=-7002/4177, 5-19=-3632/6050, 6-19=-1417/1193, 6-18=-2123/3149, 7-18=-2730/2155, 8-18=-2137/3174, 8-17=-1433/1180, 9-17=-3608/6017, 9-15=-6966/4140, 11-15=-654/408, 11-14=-151/304	

NOTES-	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.
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.	Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:
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.	April 4,2024
3) Unbalanced roof live loads have been considered for this design.	
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60	
5) 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.	
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) All plates are 2x4 MT20 unless otherwise indicated.	
9) Gable ends braced at 2-0-0 oc.	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)	MiTek® 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441185
3926198	T14	GABLE	1	2	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:27 2024 Page 2
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-hVop43vbUgsB41GuFBzKV13HMJ16deS003qdYuzURWc

- NOTES-**
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 4179 lb uplift at joint 21, 4147 lb uplift at joint 15 and 258 lb uplift at joint 12.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3851 lb down and 2222 lb up at 21-1-15, and 3798 lb down and 2190 lb up at 32-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-54, 6-47=-54, 47-48=-299, 8-48=-54, 8-13=-54, 41-50=-20, 50-53=-45(B=-25), 44-53=-20

Concentrated Loads (lb)

Vert: 50=-3851(F) 53=-3798(F)

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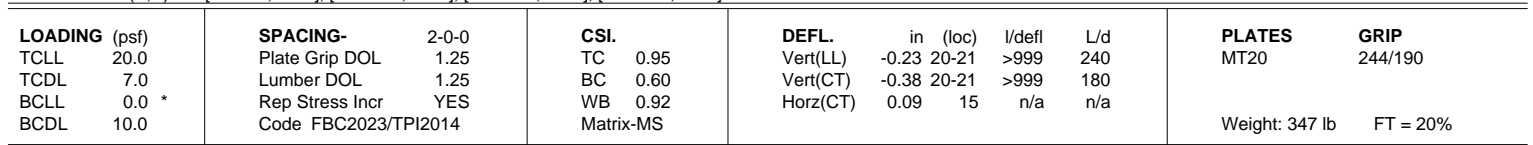
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Builders FirstSource, Lake City, FL 32055

 8.730 s Nov 16 2023 MiTek Industries, Inc. Thu Apr 4 12:04:10 2024 Page 1
 ID:z3ohkPVXkHLTnshACqKTS0zX8iQz-7!kXv9_qcYhuWJD0xGg?x6pnQ7BmBOydNSbzezUGWp

1-6-0	7-8-11	15-0-0	20-11-0	26-10-0	32-9-0	38-8-0	45-11-5	53-8-0	55-2-0
1-6-0	7-8-11	7-3-5	5-11-0	5-11-0	5-11-0	5-11-0	7-3-5	7-8-11	1-6-0

Scale = 1:94.5



REACTIONS. (size) 2=0-8-0, 15=0-8-0, 13=0-3-8
 Max Horz 2=-178(LC 13)
 Max Uplift 2=-728(LC 12), 15=-897(LC 8), 13=-249(LC 25)
 Max Grav 2=1837(LC 2), 15=2769(LC 2), 13=90(LC 12)

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 C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 45-11-10 to 55-2-0 zone; porch 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) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 728 lb uplift at joint 2, 897 lb uplift at joint 15 and 249 lb uplift at joint 13.

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.

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441188
3926198	T17	Hip	1	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:30 2024 Page 1

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Scale = 1:94.5

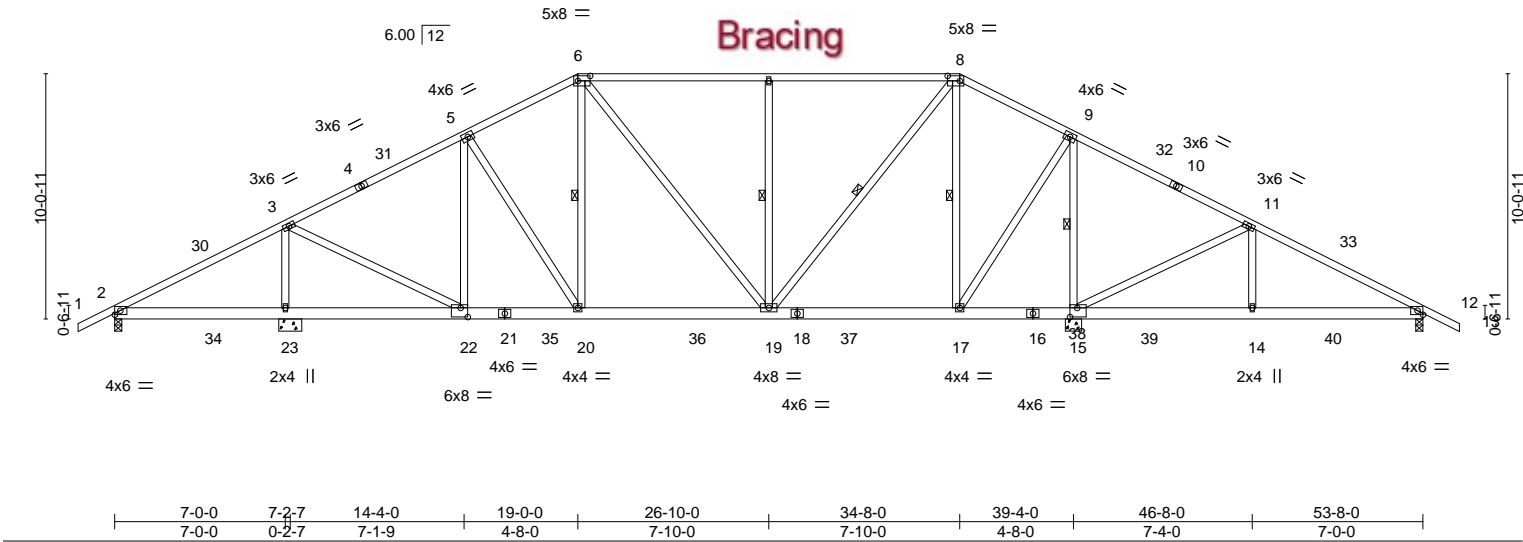


Plate Offsets (X,Y)--		[6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [15:0-3-8,0-4-8], [22:0-3-8,0-4-8]																	
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP									
TCLL	20.0	Plate Grip DOL		TC	0.71	Vert(LL)	-0.08 19-20 >999 240	MT20		244/190									
TCDL	7.0	Lumber DOL		BC	0.35	Vert(CT)	-0.13 19-20 >999 180												
BCLL	0.0 *	Rep Stress Incr		WB	0.86	Horz(CT)	0.02 12 n/a n/a												
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS															

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-11-13 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-20, 7-19, 8-19, 8-17, 9-15

REACTIONS.		All bearings 0-3-8 except (jt=length) 23=0-11-5, 15=0-8-0.
(lb) - Max Horz		2=221(LC 13)
Max Uplift		All uplift 100 lb or less at joint(s) except 2=137(LC 8), 23=695(LC 12), 15=756(LC 8), 12=255(LC 13)
Max Grav		All reactions 250 lb or less at joint(s) except 2=261(LC 25), 23=1719(LC 2), 15=2107(LC 2), 12=527(LC 28)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-5=-1151/456, 5-6=-1162/549, 6-7=-1015/510, 7-8=-1015/510, 8-9=-559/337, 9-11=-83/274, 11-12=-554/411	
BOT CHORD	20-22=-315/977, 19-20=-258/1021, 17-19=-52/510, 15-17=-183/322, 14-15=-248/441, 12-14=-248/441	
WEBS	3-23=-1385/696, 3-22=-329/1171, 5-22=-361/201, 6-20=-78/299, 7-19=-494/379, 8-19=-374/907, 8-17=-712/345, 9-17=-347/1155, 9-15=-1560/639, 11-15=-682/613, 11-14=-240/314	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 3-10-6, Zone1 3-10-6 to 19-0-0, Zone2 19-0-0 to 26-10-0, Zone1 26-10-0 to 34-8-0, Zone2 34-8-0 to 42-3-1, Zone1 42-3-1 to 55-2-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 695 lb uplift at joint 23, 756 lb uplift at joint 15 and 255 lb uplift at joint 12.

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:

April 4,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441189
3926198	T18	GABLE	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:32 2024 Page 1						
ID:z3ohkPVXkHLTnshACqKTS0zX8lQ-2Sci7mykJCUTAo9s2kZVC5n8KklHvd9LXOD6zURWX										
1-6-0	7-0-0	9-3-4	14-4-0	19-0-0	26-10-0	34-8-0	39-4-0	46-8-0	53-8-0	55-2-0
1-6-0	7-0-0	2-3-4	5-0-12	4-8-0	7-10-0	7-10-0	4-8-0	7-4-0	7-0-0	1-6-0

THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

Scale = 1:94.3

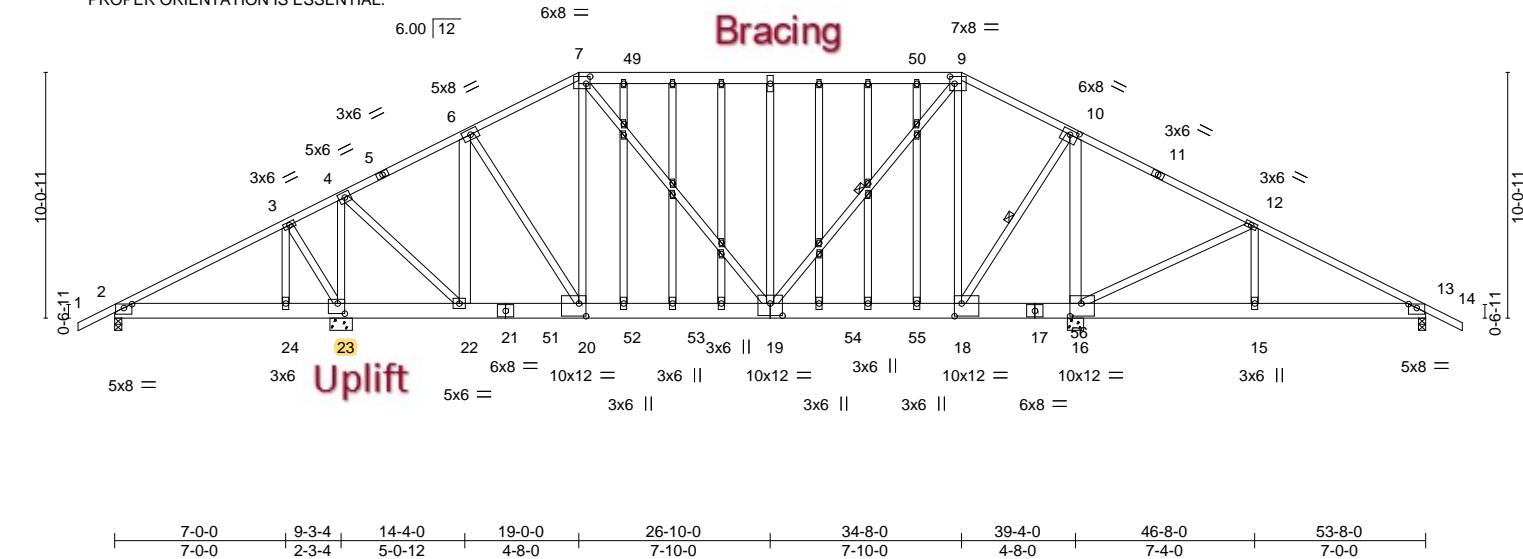


Plate Offsets (X,Y)--	[2:0-4-0,0-1-15], [7:0-2-0,0-3-8], [9:0-2-4,0-3-8], [10:0-4-0,0-2-4], [13:0-4-0,0-1-15], [16:0-5-8,0-6-4], [18:0-3-8,0-6-4], [19:0-6-0,0-6-0], [20:0-3-8,0-6-4], [23:0-3-8,0-5-0]
-----------------------	---

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.94	Vert(LL) 0.22	19-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.58	Vert(CT) -0.28	19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 1.00	Horz(CT) 0.02	13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS					Weight: 968 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 7-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
BOT CHORD 2x8 SP 2400F 2.0E	WEBS 1 Row at midpt 9-19, 10-18
WEBS 2x4 SP No.3 *Except* 6-22,10-16: 2x6 SP No.2, 6-20,9-18,10-18: 2x4 SP No.2	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-11-0, 16=0-8-0.
(lb) - Max Horz 2=-219(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-207(LC 29), 23=-3745(LC 5),
16=-4764(LC 4), 13=-259(LC 25)
Max Grav All reactions 250 lb or less at joint(s) except 2=280(LC 18), 23=6463(LC 1), 16=8042(LC 1), 13=501(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-422/705, 3-4=-364/611, 4-6=-3707/2174, 6-7=-6065/3688, 7-8=-6519/4151,
8-9=-6519/4151, 9-10=-4134/2563, 10-12=-109/305, 12-13=-510/276
BOT CHORD 2-24=-609/573, 23-24=-609/573, 22-23=-536/537, 20-22=-1880/3259, 19-20=-3176/5396,
18-19=-2113/3627, 16-18=-209/355, 15-16=-165/438, 13-15=-165/438
WEBS 3-24=-280/210, 3-23=-307/313, 4-23=-5587/3259, 4-22=-3020/5175, 6-22=-4505/2712,
6-20=-2379/3893, 7-20=-1098/1262, 7-19=-1332/1832, 8-19=-2744/2163,
9-19=-2953/4558, 9-18=-2310/1566, 10-18=-4165/6953, 10-16=-8038/4751,
12-16=-650/406, 12-15=-138/294

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.

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:

April 4,2024

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

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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441189
3926198	T18	GABLE	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.730 s
Mar 21 2024
MiTek Industries, Inc.
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- NOTES-**
- 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * 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.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 2, 3745 lb uplift at joint 23, 4764 lb uplift at joint 16 and 259 lb uplift at joint 13.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3942 lb down and 2271 lb up at 21-1-15, and 3798 lb down and 2190 lb up at 32-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) Studding applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-7=-54, 7-49=-54, 49-50=-299, 9-50=-54, 9-14=-54, 43-52=-20, 52-55=-45(F=-25), 46-55=-20

Concentrated Loads (lb)

Vert: 52=-3942(B) 55=-3798(B)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441190
3926198	T19	JACK-CLOSED	4	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:32 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-2Sci7mykJCUTAo9s2kZVC5nFjKIYHz_I9LXOD6zURWX

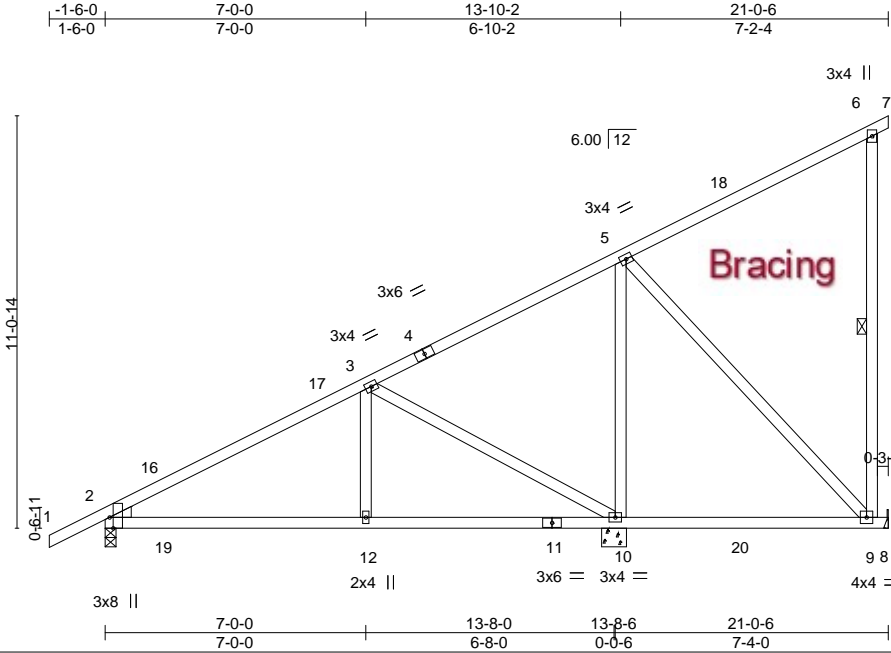


Plate Offsets (X,Y)-- [2:0-3-8,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.10	12-15	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	9-10	>590	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	-0.01	2	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 126 lb FT = 20%	

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

REACTIONS. (size) 2=0-3-8, 10=0-8-0, 8=Mechanical
Max Horz 2=440(LC 12)
Max Uplift 2=204(LC 9), 10=359(LC 9), 8=159(LC 12)
Max Grav 2=523(LC 1), 10=1195(LC 2), 8=121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-522/250, 3-5=-182/253
BOT CHORD 2-12=-575/408, 10-12=-575/408
WEBS 3-12=-237/284, 3-10=-619/573, 5-10=-595/205, 5-9=0/284

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 21-0-6 zone; porch left 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 204 lb uplift at joint 2, 359 lb uplift at joint 10 and 159 lb uplift at joint 8.

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:

April 4,2024

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MiTek®

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441191
3926198	T20	JACK-CLOSED	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:33 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-Wf94K6zM3WcKoyk2cS4klJQLj5M0RwvO?HxIYzURWW

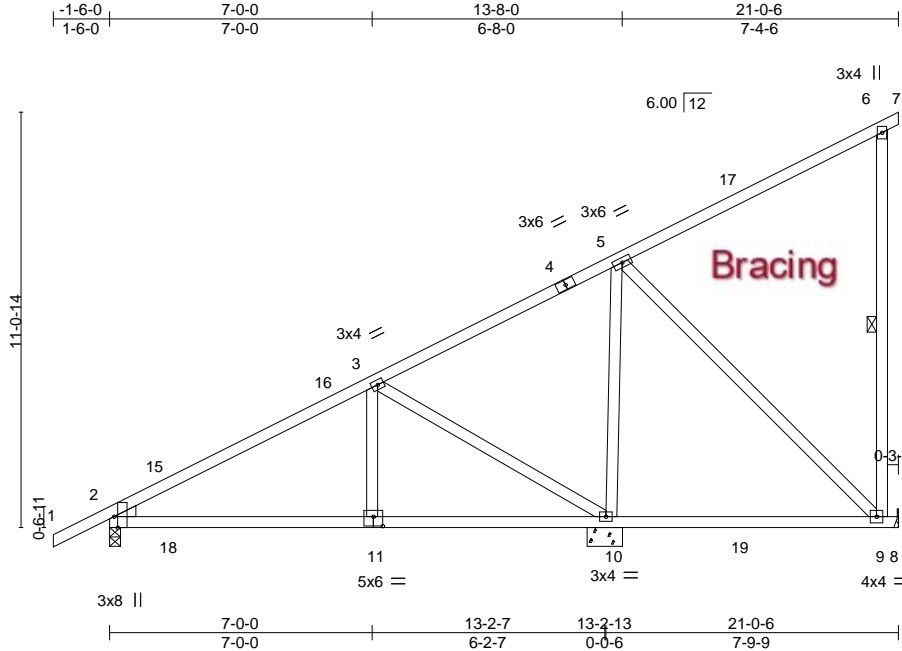


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [11:0-3-0,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.12 9-10	>778	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.20 9-10	>453	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.02 2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 125 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 10=0-11-5, 8=Mechanical
Max Horz 2=440(LC 12)
Max Uplift 2=198(LC 9), 10=342(LC 9), 8=172(LC 12)
Max Grav 2=500(LC 1), 10=1211(LC 2), 8=143(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-469/227, 3-5=-175/277
BOT CHORD 2-11=-554/361, 10-11=-556/362
WEBS 3-11=-235/270, 3-10=-586/549, 5-10=-608/194, 5-9=0/300

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 21-0-6 zone; porch left 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2, 342 lb uplift at joint 10 and 172 lb uplift at joint 8.

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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16023 Swingley Ridge Rd.
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Date:

April 4,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441192
3926198	T21	JACK-CLOSED	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:34 2024 Page 1
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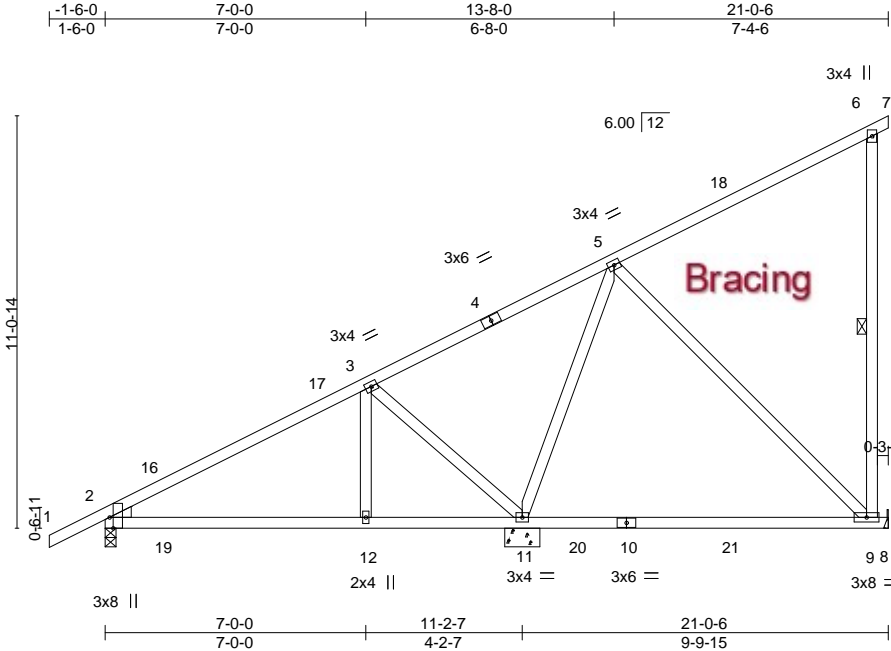


Plate Offsets (X,Y)--		[2:0-3-8,Edge]	
LOADING (psf)		SPACING-	2-0-0
TCLL 20.0		Plate Grip DOL	1.25
TCDL 7.0		Lumber DOL	1.25
BCLL 0.0 *		Rep Stress Incr	YES
BCDL 10.0		Code	FBC2023/TPI2014
		CSI.	
		TC 0.71	
		BC 0.92	
		WB 0.74	
		Matrix-MS	
		DEFL.	
		in (loc)	I/defl L/d
		Vert(LL) -0.37 9-11	>318 240
		Vert(CT) -0.62 9-11	>189 180
		Horz(CT) 0.02 2	n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 123 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 11=0-11-5, 8=Mechanical
	Max Horz 2=440(LC 12)
	Max Uplift 2=-176(LC 9), 11=-268(LC 9), 8=-217(LC 12)
	Max Grav 2=383(LC 1), 11=1307(LC 2), 8=230(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-5=-139/456
BOT CHORD	2-12=-486/146, 11-12=-486/146
WEBS	3-11=-471/498, 5-11=-685/116, 5-9=-47/296

NOTES-	
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 21-0-6 zone; porch left 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, with BCDL = 10.0psf.	
5) Refer to girder(s) for truss to truss connections.	
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 2, 268 lb uplift at joint 11 and 217 lb uplift at joint 8.	

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Date:

April 4,2024

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441193
3926198	T22	JACK-CLOSED	6	1	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:34 2024 Page 1

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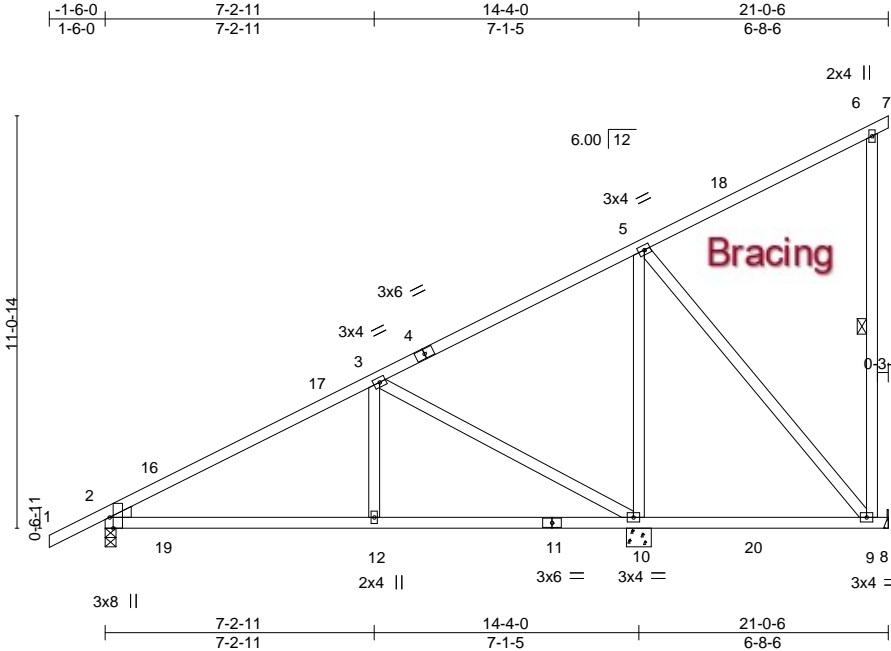


Plate Offsets (X,Y)--		[2:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48
TCDL 7.0	Lumber DOL	1.25	BC 0.44
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
DEFL.	in (loc)	I/defl	L/d
Vert(LL)	0.11 12-15	>999	240
Vert(CT)	-0.13 12-15	>999	180
Horz(CT)	-0.02 2	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 127 lb		FT = 20%	

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

REACTIONS. (size) 2=0-3-8, 10=0-8-0, 8=Mechanical
Max Horz 2=440(LC 12)
Max Uplift 2=213(LC 9), 10=367(LC 9), 8=152(LC 12)
Max Grav 2=551(LC 1), 10=1165(LC 2), 8=109(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-573/272
BOT CHORD 2-12=-592/452, 10-12=-592/452
WEBS 3-12=-242/298, 3-10=-653/597, 5-10=-564/196, 5-9=0/255

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 21-0-6 zone; porch left 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, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 213 lb uplift at joint 2, 367 lb uplift at joint 10 and 152 lb uplift at joint 8.

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441195
3926198	T24	Common	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:35 2024 Page 1
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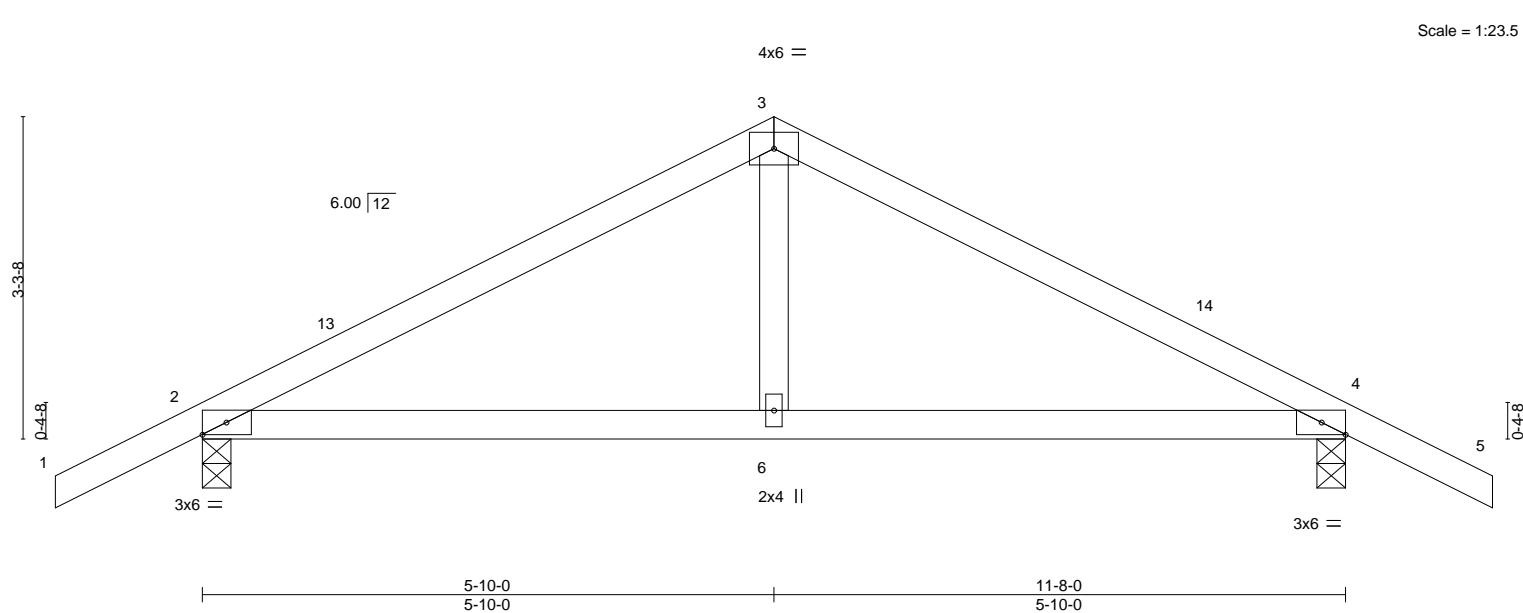


Plate Offsets (X,Y)--		[4:0-2-15,Edge]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.04	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014		Matrix-MS						Weight: 46 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=79(LC 12)
Max Uplift 2=-221(LC 12), 4=-221(LC 13)
Max Grav 2=513(LC 1), 4=513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-585/364, 3-4=-585/366
BOT CHORD 2-6=-156/468, 4-6=-156/468
WEBS 3-6=-21/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-10-0, Zone2 5-10-0 to 10-0-15, Zone1 10-0-15 to 13-2-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 2 and 221 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:

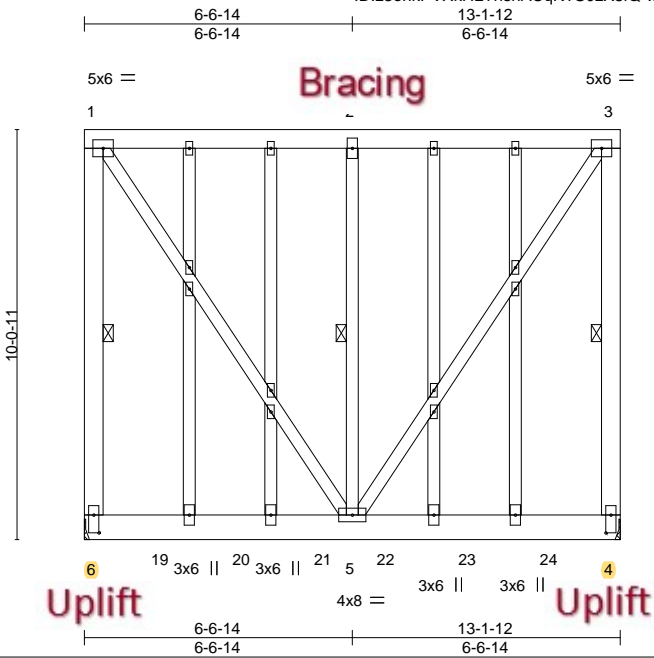
April 4,2024

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.
3926198	TG01	GABLE	1	2	T33441196

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:36 2024 Page 1

ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-wDrDz80FMR_vfQsDHadRNxxzfxCZDIsl4zVbMtzURWT



Scale = 1:56.5

Plate Offsets (X,Y)--		[4:0-5-4,0-1-8], [6:0-5-4,0-1-8]										
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.04	5-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.05	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 370 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-6, 3-4, 2-5
OTHERS 2x4 SP No.3	

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Uplift 6=2251(LC 4), 4=2202(LC 4)
Max Grav 6=3962(LC 1), 4=3871(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-3558/1974, 1-2=-1539/892, 2-3=-1539/892, 3-4=-3560/1975
WEBS 1-5=-1554/2676, 2-5=-3805/1940, 3-5=-1556/2679

- NOTES-
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2251 lb uplift at joint 6 and 2202 lb uplift at joint 4.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 237 lb up at 1-9-10, 123 lb down and 192 lb up at 3-9-10, 102 lb down and 176 lb up at 5-9-10, 102 lb down and 176 lb up at 7-4-2, and 102 lb down and 176 lb up at 9-4-2, and 102 lb down and 176 lb up at 11-4-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

April 4,2024

Construction applied to ply: 1(Front)

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

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441196
3926198	TG01	GABLE	1	2	Job Reference (optional)	

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:36 2024 Page 2
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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-3=-509, 4-6=-50(F=-30)
- Concentrated Loads (lb)
Vert: 19=-210(B) 20=-123(B) 21=-102(B) 22=-102(B) 23=-102(B) 24=-102(B)

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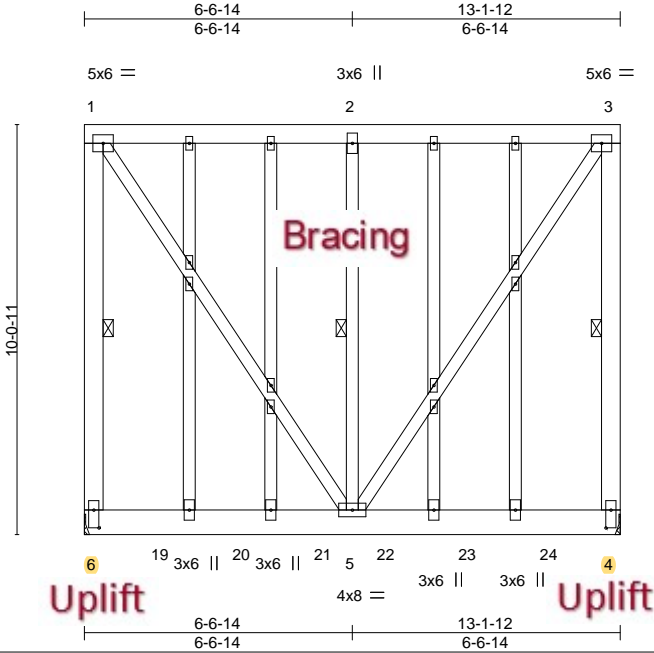
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.
3926198	TG02	GABLE	1	2	T33441197

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

8.730 s Mar 21 2024 MiTek Industries, Inc. Wed Apr 3 11:33:37 2024 Page 1

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Scale = 1:56.5

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.04	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.05				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.00				
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS							
								Weight: 370 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP M 26	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt
	1-6,3-4: 2x6 SP No.2		1-6, 3-4, 2-5
OTHERS	2x4 SP No.3		

REACTIONS. (size) 6=Mechanical, 4=Mechanical
Max Uplift 6=2170(LC 4), 4=2170(LC 4)
Max Grav 6=3818(LC 1), 4=3818(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-3511/1946, 1-2=-1506/873, 2-3=-1506/873, 3-4=-3511/1946
WEBS 1-5=-1522/2621, 2-5=-3805/1940, 3-5=-1522/2621

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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/TP1 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2170 lb uplift at joint 6 and 2170 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down and 167 lb up at 1-9-10, 91 lb down and 167 lb up at 3-9-10, 91 lb down and 167 lb up at 5-9-10, 91 lb down and 167 lb up at 7-4-2, and 91 lb down and 167 lb up at 9-4-2, and 91 lb down and 167 lb up at 11-4-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Construction applied to ply: 1(Front)

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HARLOW RES.	T33441197
3926198	TG02	GABLE	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),
Lake City, FL - 32055,
8.730 s
Mar 21 2024
MiTek Industries, Inc.
Wed Apr 3 11:33:37 2024
Page 2
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LOAD CASE(S)
Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-509, 4-6=-50(F=-30)
Concentrated Loads (lb)
Vert: 19=-91(F) 20=-91(F) 21=-91(F) 22=-91(F) 23=-91(F) 24=-91(F)

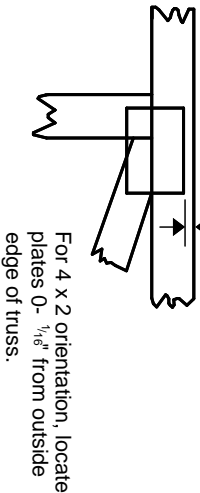
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING

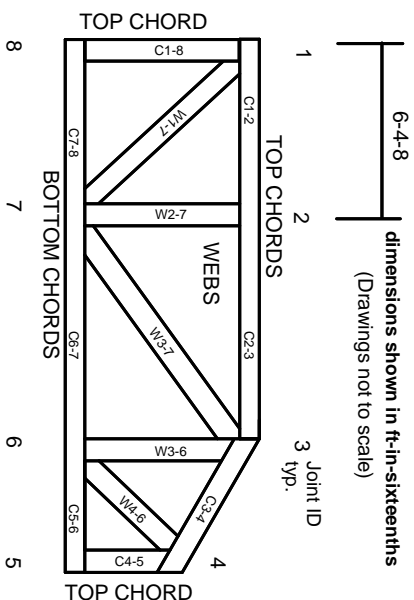


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: 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/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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