



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

RE: 4573903 - KURTIS-BETH

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: KG CONSTRUCTION Project Name: Kurtis-Beth Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD SW Otter Lane, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

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

This package includes 33 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	T37160307	CJ01	4/29/25	15	T37160321	T07	4/29/25
2	T37160308	CJ03	4/29/25	16	T37160322	T08	4/29/25
3	T37160309	CJ05	4/29/25	17	T37160323	T09	4/29/25
4	T37160310	EJ01	4/29/25	18	T37160324	T10	4/29/25
5	T37160311	EJ02	4/29/25	19	T37160325	T11	4/29/25
6	T37160312	EJ03	4/29/25	20	T37160326	T12	4/29/25
7	T37160313	HJ10	4/29/25	21	T37160327	T13	4/29/25
8	T37160314	HJ10A	4/29/25	22	T37160328	T14	4/29/25
9	T37160315	T01	4/29/25	23	T37160329	T15	4/29/25
10	T37160316	T02	4/29/25	24	T37160330	T16	4/29/25
11	T37160317	T03	4/29/25	25	T37160331	T17	4/29/25
12	T37160318	T04	4/29/25	26	T37160332	T18	4/29/25
13	T37160319	T05	4/29/25	27	T37160333	V01	4/29/25
14	T37160320	T06	4/29/25	28	T37160334	V02	4/29/25

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

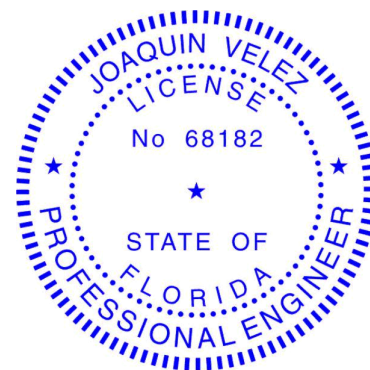
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2027.

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



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

April 29,2025

Velez, Joaquin

1 of 2



RE: 4573903 - KURTIS-BETH

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: KG CONSTRUCTION Project Name: Kurtis-Beth Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD SW Otter Lane, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T37160335	V03	4/29/25
30	T37160336	V04	4/29/25
31	T37160337	V05	4/29/25
32	T37160338	V06	4/29/25
33	T37160339	V07	4/29/25

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160307
4573903	CJ01	Jack-Open	12	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:17 2025 Page 1

ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-cERfw?rQ5i9Neg?GNYgtpK7llkEI6L5vPfmGO4zM7bK

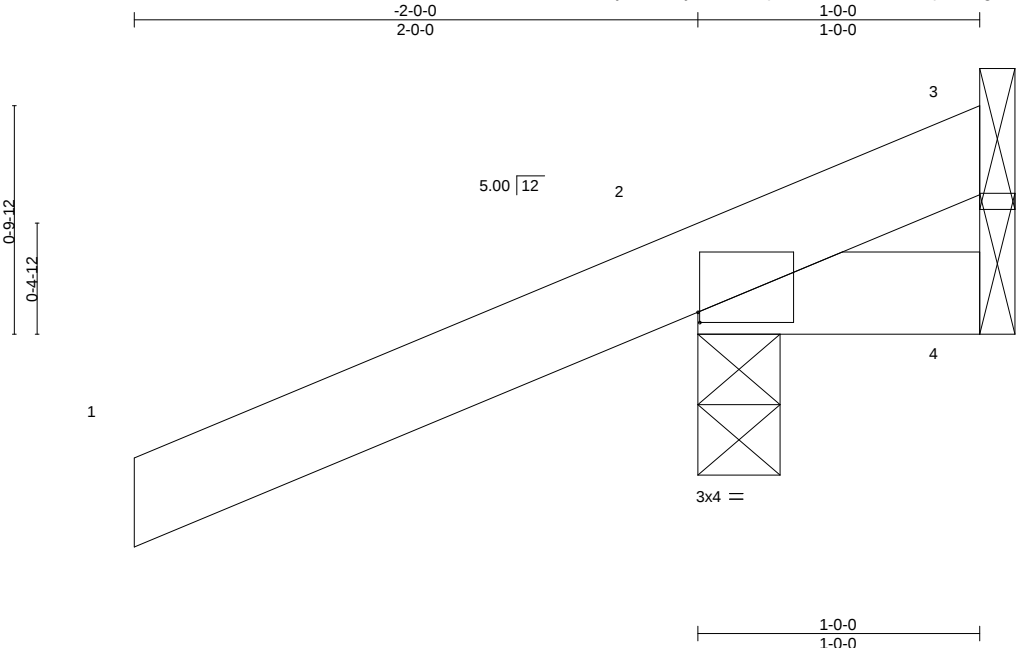


Plate Offsets (X,Y)--		[2:0-0-1,0-0-7]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) 0.00 7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(CT) 0.00 7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 7 lb	FT = 20%

LUMBER-	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=45(LC 8)
Max Uplift 3=-31(LC 1), 2=-153(LC 8), 4=-51(LC 1)
Max Grav 3=24(LC 8), 2=281(LC 1), 4=33(LC 8)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss 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=153.

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 29,2025

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

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160308
4573903	CJ03	Jack-Open	12	1	Job Reference (optional)	

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:17 2025 Page 1

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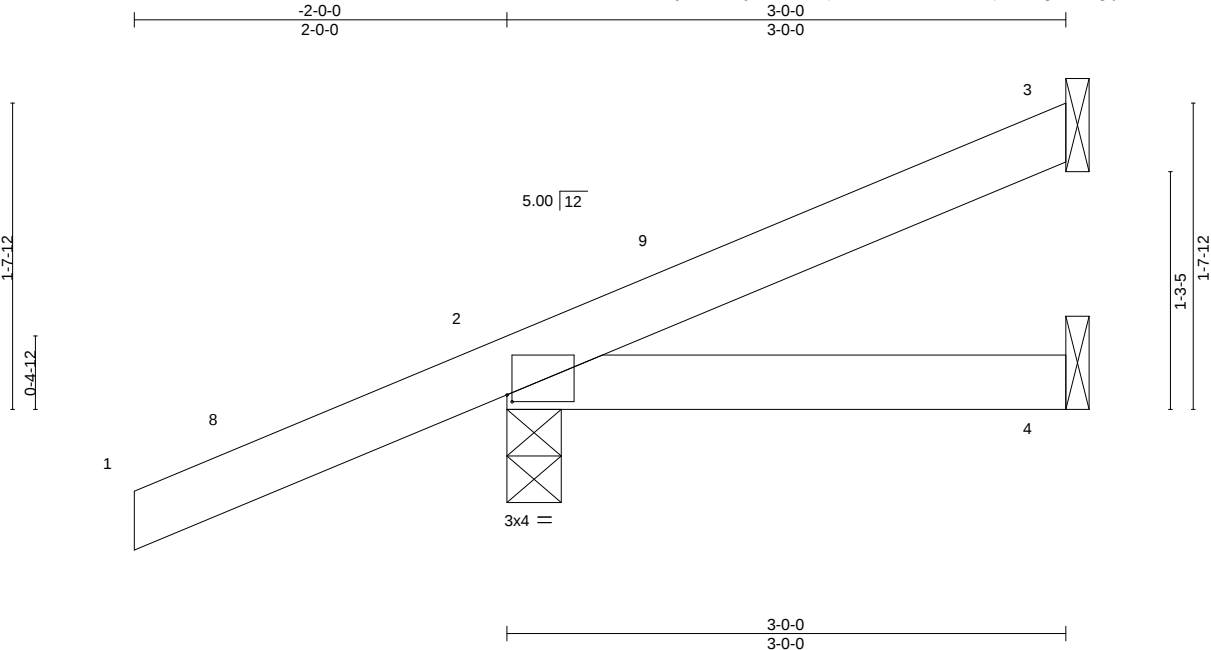


Plate Offsets (X,Y)--		[2:0-0-5,0-0-7]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL) -0.00 4-7 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.06	Vert(CT) -0.00 4-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MP		Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=75(LC 12)
Max Uplift 3=-34(LC 12), 2=-129(LC 8), 4=-16(LC 9)
Max Grav 3=57(LC 1), 2=278(LC 1), 4=47(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=129.

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 29,2025

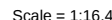
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MiTek®

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

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:17 2025 Page 1
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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.

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
2=145

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 29, 2025



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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160310
4573903	EJ01	Jack-Partial	30	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:18 2025 Page 1
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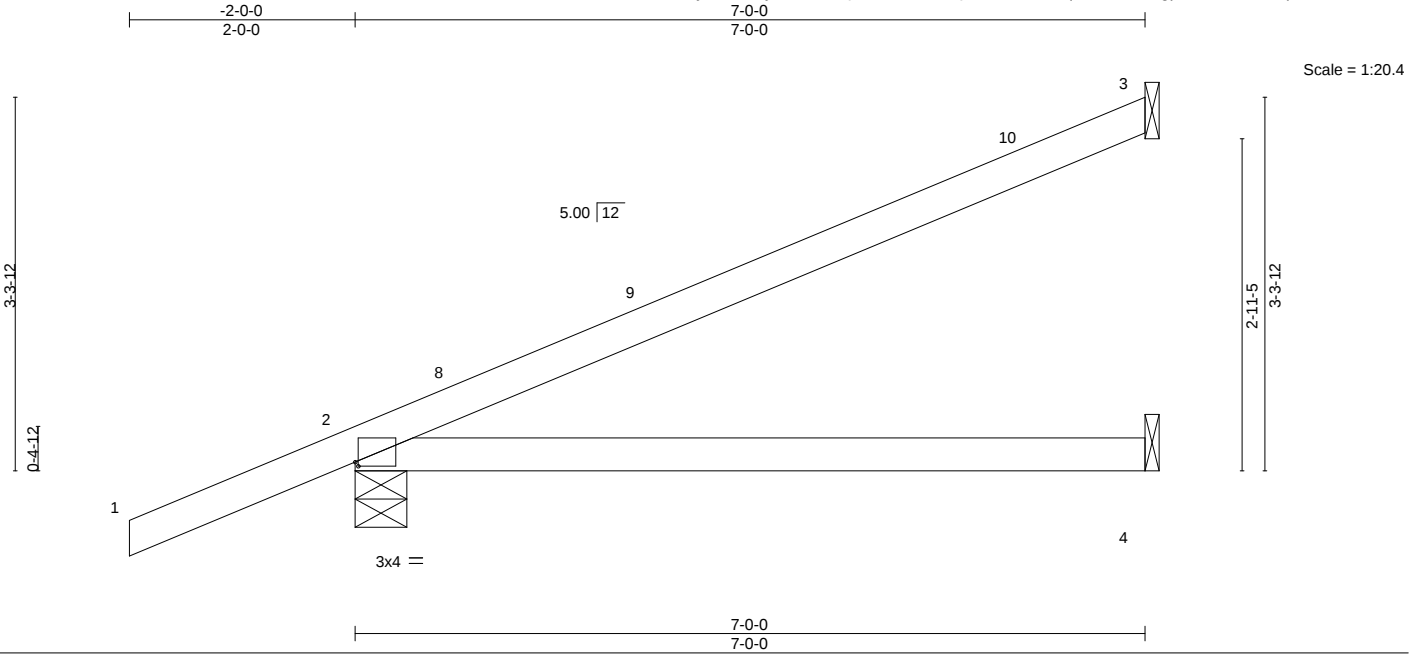


Plate Offsets (X,Y)--	[2:0-0-5,0-0-7]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	0.17 4-7	>492	240	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.22 4-7	>378	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 25 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.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=135(LC 12)
Max Uplift 3=90(LC 12), 2=-168(LC 8), 4=-47(LC 9)
Max Grav 3=177(LC 1), 2=415(LC 1), 4=127(LC 3)

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

- NOTES-
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 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, 4 except (jt=lb) 2=168.

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 29,2025

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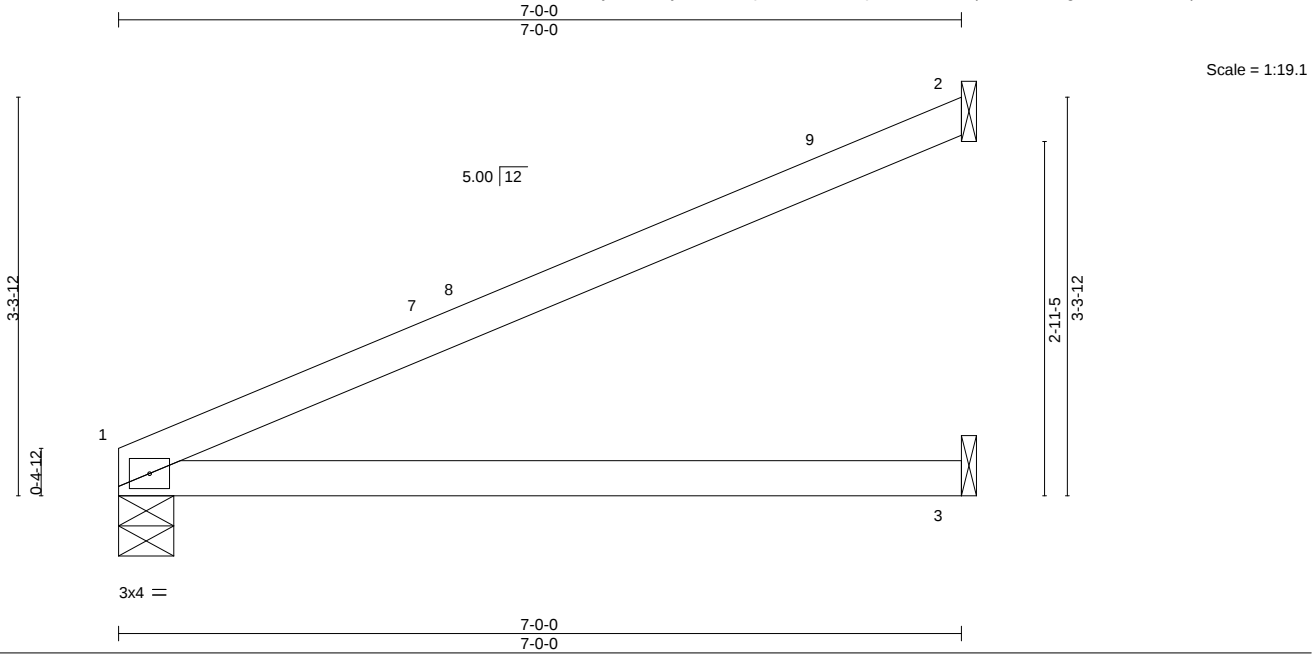
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MiTek®

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160311
4573903	EJ02	Jack-Partial	9	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:18 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	0.12	3-6	>690	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.25	3-6	>339	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 22 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 1=107(LC 12)
Max Uplift 1=-60(LC 12), 2=-94(LC 12), 3=-3(LC 12)
Max Grav 1=278(LC 1), 2=186(LC 1), 3=130(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" 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) 1, 2, 3.

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digitally signed and
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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:

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MiTek®

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160312
4573903	EJ03	Jack-Partial	4	1		
Job Reference (optional)						

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:19 2025 Page 1
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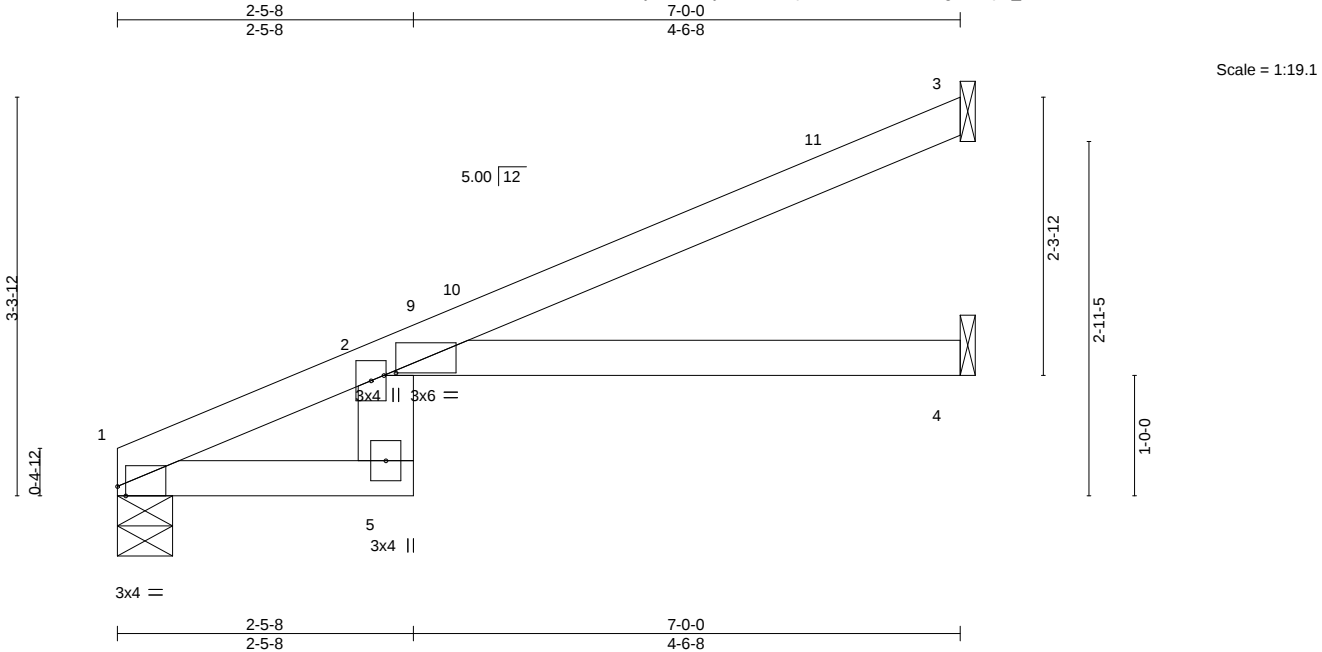


Plate Offsets (X,Y)--		[1:0-0-13,Edge], [2:0-1-3,0-0-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84
TCDL 10.0	Lumber DOL	1.25	BC 0.69
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MR
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) 0.17 2-4 >479 240
			Vert(CT) -0.31 2-4 >270 180
			Horz(CT) 0.13 4 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 24 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 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
2-5: 2x6 SP No.2	

REACTIONS. (size) 1=0-5-8, 3=Mechanical, 4=Mechanical
Max Horz 1=107(LC 12)
Max Uplift 1=-60(LC 12), 3=-80(LC 12), 4=-17(LC 12)
Max Grav 1=278(LC 1), 3=172(LC 1), 4=124(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.

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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 29,2025

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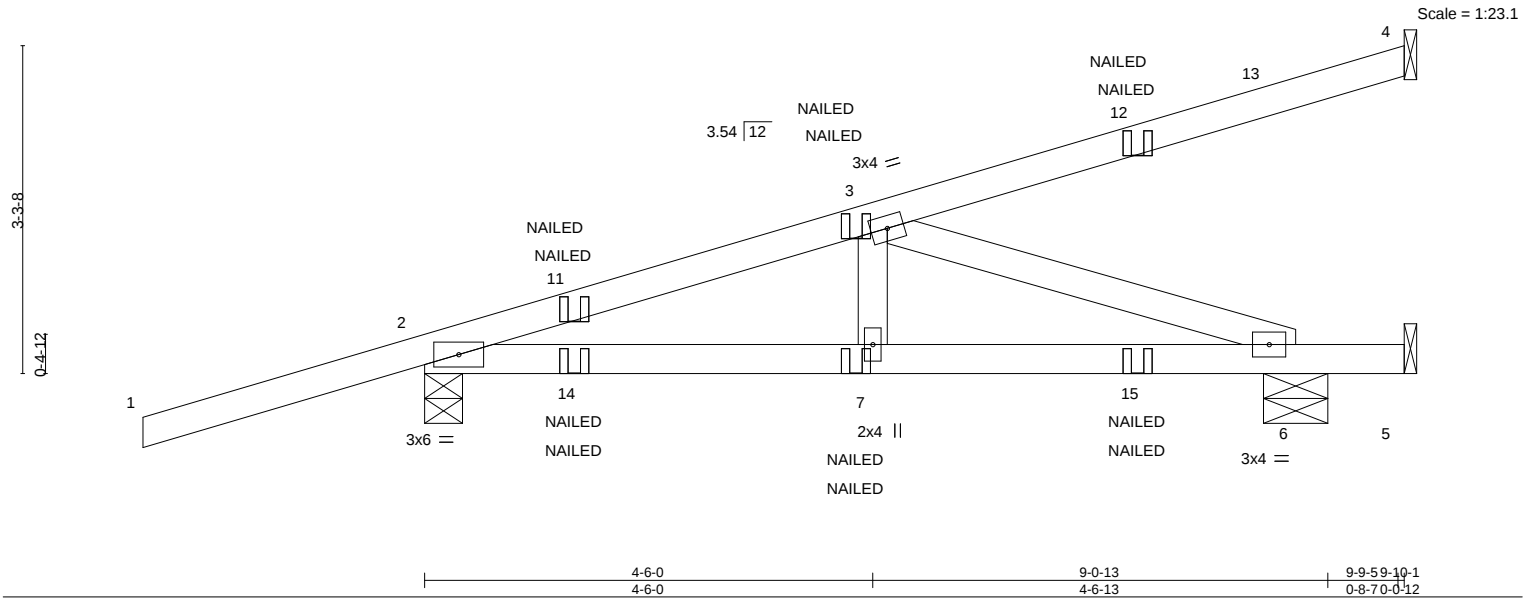
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160313
4573903	HJ10	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:19 2025 Page 1

ID: iLFy0EbzAAyMv2fsVKQNPZzSscM-YdZPKgthdvQ5t_9eUziLulC?pXm9aCxBSzFMSzM7bl



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.05 7-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	0.06 7-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.23	Horz(CT)	-0.01 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 42 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-4-9, 6=0-7-12.
(lb) - Max Horz 2=150(LC 25)
Max Uplift All uplift 100 lb or less at joint(s) 4, 5 except 2=-236(LC 4), 6=-224(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=442(LC 1), 6=417(LC 3)

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

TOP CHORD 2-3=-577/285
BOT CHORD 2-7=-314/527, 6-7=-314/527
WEBS 3-6=-555/331

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left 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) 4, 5 except (jt=lb) 2=236, 6=224.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=74(F=37, B=37) 12=-69(F=-35, B=-35) 14=81(F=40, B=40) 15=-51(F=-25, B=-25)

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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 29,2025

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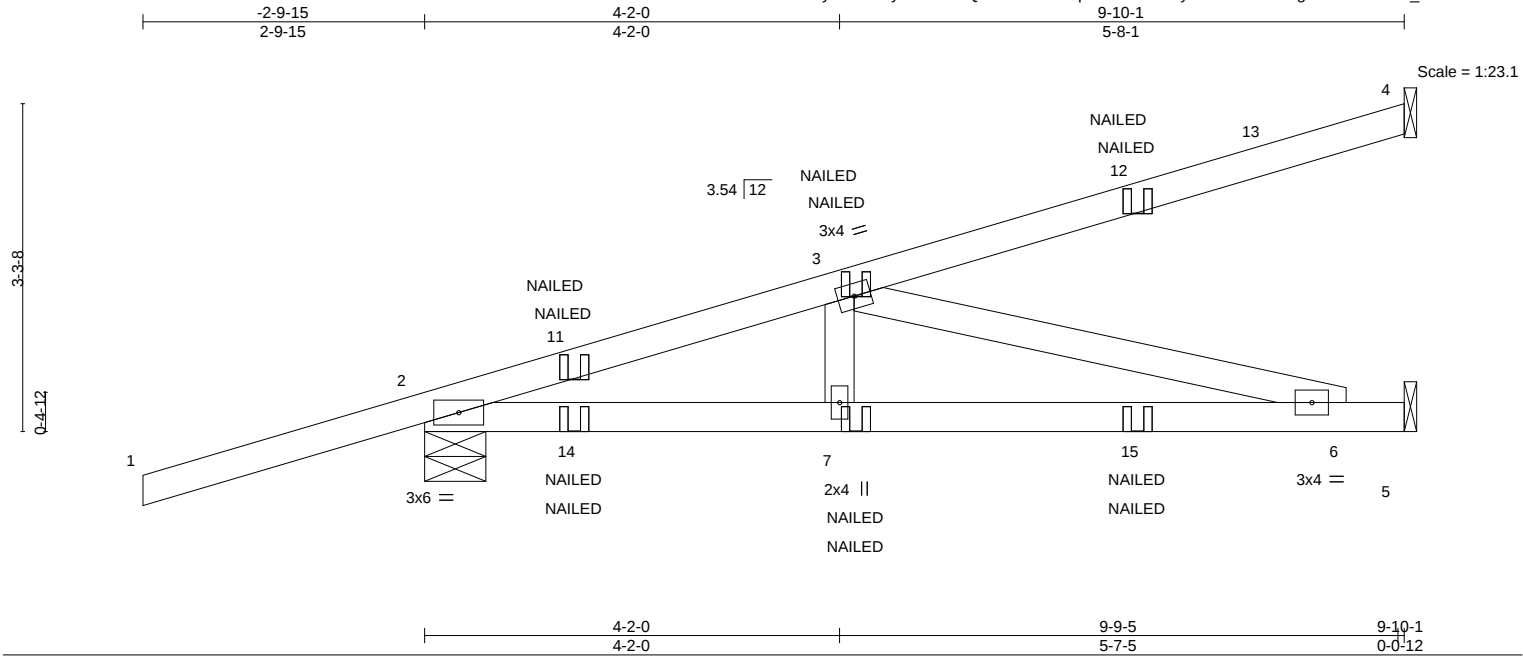
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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160314
4573903	HJ10A	Diagonal Hip Girder	4	1	Job Reference (optional)	

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:20 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	0.13	6-7	>886	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.19	6-7	>629	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.42	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 43 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical
Max Horz 2=150(LC 25)
Max Uplift 4=94(LC 4), 2=-260(LC 4), 5=-144(LC 5)
Max Grav 4=180(LC 1), 2=484(LC 1), 5=269(LC 3)

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

TOP CHORD 2-3=-777/397
BOT CHORD 2-7=-427/727, 6-7=-427/727
WEBS 3-6=-751/441

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=260, 5=144.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=5(F=2, B=2) 11=74(F=37, B=37) 12=-69(F=-35, B=-35) 14=81(F=40, B=40) 15=-51(F=-25, B=-25)

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

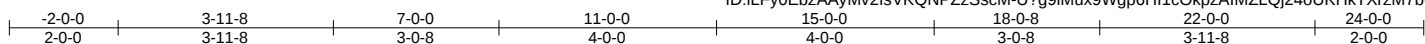
April 29,2025

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Scale = 1:42.4

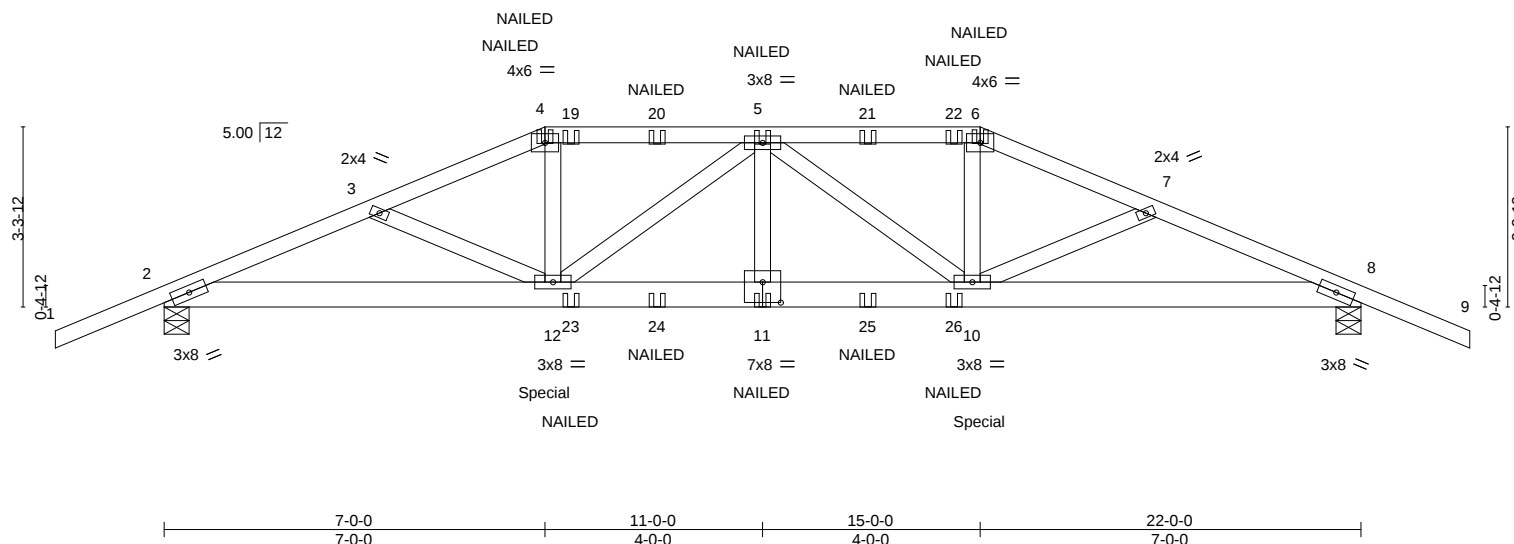


Plate Offsets (X,Y)-- [11:0-4-0,0-4-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	0.18	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.28	11	>929	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 127 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-9-12 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-6-12 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-5-8, 8=0-5-8
 Max Horz 2=-63(LC 34)
 Max Uplift 2=-785(LC 8), 8=-785(LC 9)
 Max Grav 2=1766(LC 1), 8=1766(LC 1)

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

TOP CHORD 2-3=-3727/1746, 3-4=-3525/1686, 4-5=-3274/1601, 5-6=-3274/1601, 6-7=-3525/1686,
7-8=-3727/1747

BOT CHORD 2-12=-1599/3403, 11-12=-1758/3781, 10-11=-1758/3781, 8-10=-1537/3403

WEBS 4-12=-410/890, 5-12=-687/352, 5-11=-134/301, 5-10=-687/351, 6-10=-409/890

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=-0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=785, 8=785.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 179 lb up at 7-0-0, and 220 lb down and 179 lb up at 15-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60 4-6=-60 6-9=-60 13-16=-20

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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 29.2025

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T01	Hip Girder	1	1	T37160315
Job Reference (optional)					

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 4=-95(F) 6=-95(F) 12=-220(F) 11=-63(F) 5=-117(F) 10=-220(F) 19=-117(F) 20=-117(F) 21=-117(F) 22=-117(F) 23=-63(F) 24=-63(F) 25=-63(F) 26=-63(F)

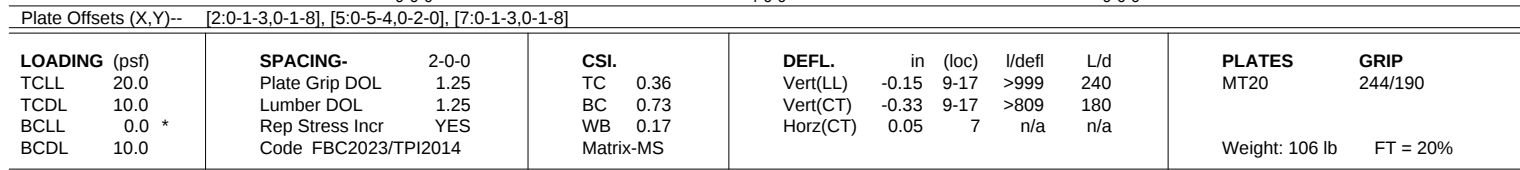
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 ID: iLFy0EbZAAyMvzfVKQNPZzSscM-U?g9IMux9Wgpg6HI1cOkpzAIPdLQk27VUKHKTxzM7Bg

 Scale = 1:42.4



REACTIONS. (size) 2=0-5-8, 7=0-5-8
 Max Horz 2=-77(LC 13)
 Max Uplift 2=-266(LC 12), 7=-266(LC 13)
 Max Grav 2=1000(LC 1), 7=1000(LC 1)

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

TOP CHORD	2-3=-1701/421, 3-4=-1365/304, 4-5=-1219/308, 5-6=-1364/304, 6-7=-1701/422
BOT CHORD	2-11=-387/1530, 9-11=-168/1219, 7-9=-311/1530
WEBS	3-11=-358/193, 4-11=-40/325, 5-9=-42/325, 6-9=-358/193

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone3 9-0-0 to 13-0-0, Zone2 13-0-0 to 17-4-1, Zone1 17-4-1 to 24-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 7=266.
- This item has been digitally signed and sealed by Velez, Joaquin, F on the date indicated here.

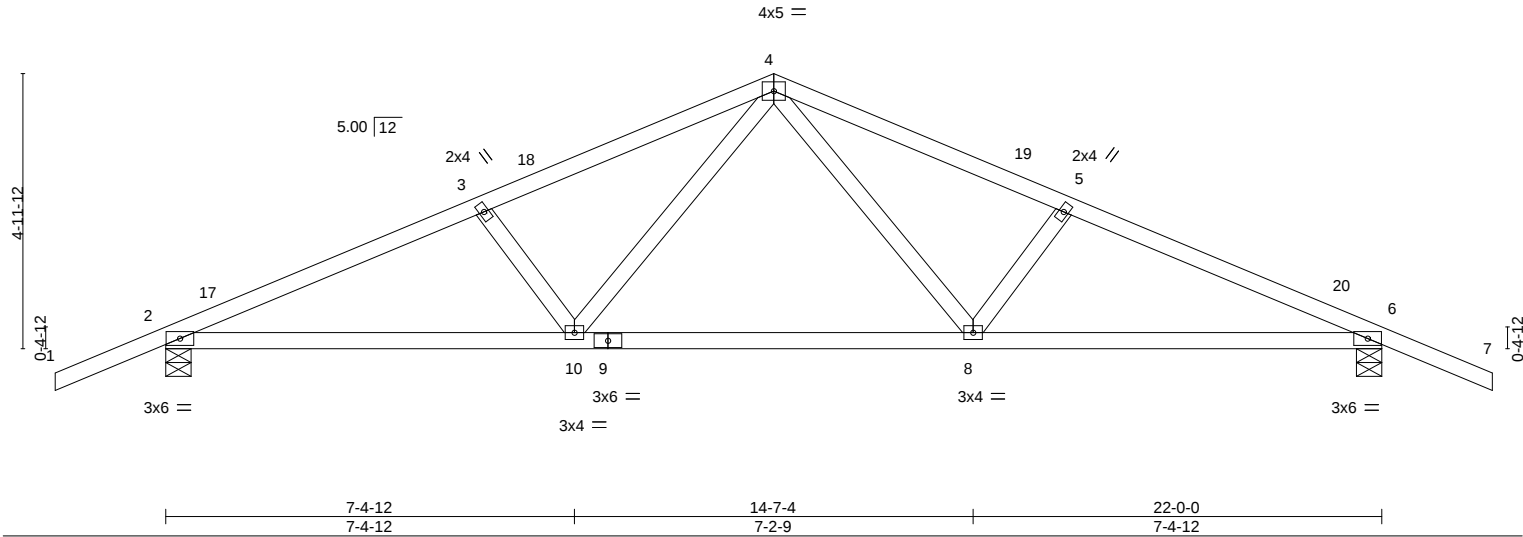
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Joaquin Velez PE No.68182
MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingle Ridge Rd.
Chesterfield, MO 63017
Date:

April 29, 2025

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160317
4573903	T03	Common	8	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:22 2025 Page 1
ID:iLFy0EbZAAyMv2fsVKQNPZzSscM-zCEXzivZwqogkRtDA6G2WOqXrliGnYYeYxU13IzM7bF
-2-0-0 5-9-1 11-0-0 16-2-15 22-0-0 24-0-0
2-0-0 5-9-1 5-2-15 5-9-1 2-0-0
Scale = 1:41.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	-0.21 8-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.44 8-10	>597	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.31	Horz(CT)	0.06 6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 100 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 8-0-4 oc bracing.
6-9: 2x4 SP No.1	
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-5-8, 6=0-5-8
	Max Horz 2=-90(LC 17)
	Max Uplift 2=-329(LC 12), 6=-329(LC 13)
	Max Grav 2=1216(LC 1), 6=1216(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2274/569, 3-4=-2092/545, 4-5=-2097/546, 5-6=-2279/570
BOT CHORD	2-10=-530/2041, 8-10=-278/1393, 6-8=-441/2045
WEBS	4-8=-236/808, 5-8=-303/190, 4-10=-234/800, 3-10=-303/190

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 24-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=329, 6=329.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)	Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25	
Uniform Loads (plf)	
Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80(F=-60), 8-14=-20	

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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 29,2025

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

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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160318
4573903	T04	Hip Girder	1	2	Job Reference (optional)	

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:26 2025 Page 1

ID:iLFy0EbZAAyMv2fsVKQNPZzSscM-rzU2o4y4_3l6D3B?PxK_gE?CGM99jGnDTZSEC3zM7bB

2-0-0 | 3-11-8 | 7-0-0 | 11-2-4 | 15-2-12 | 17-5-8 | 21-5-12 | 25-6-0 | 31-0-0 | 36-6-0 | 42-0-0 | 45-0-8 | 49-0-0 | 51-0-0

2-0-0 | 3-11-8 | 3-0-8 | 4-2-4 | 4-0-8 | 2-2-12 | 4-0-4 | 4-0-4 | 5-6-0 | 5-6-0 | 5-6-0 | 3-0-8 | 3-11-8 | 2-0-0

Scale = 1:93.8

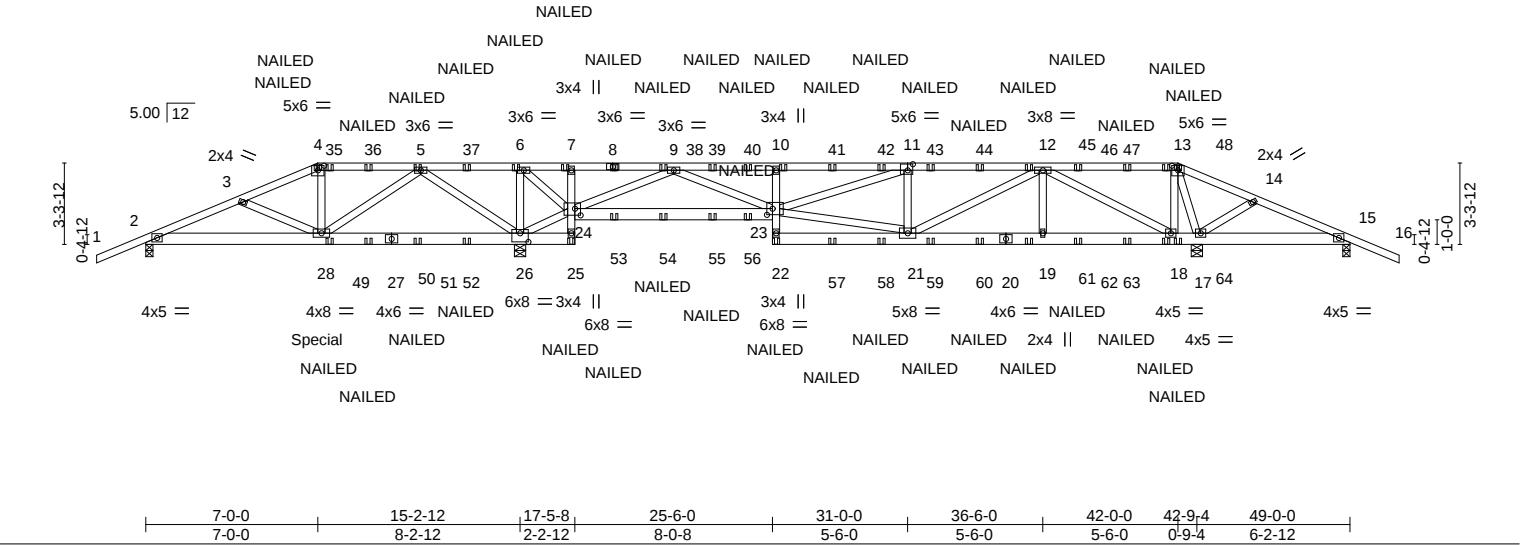


Plate Offsets (X,Y)--		[4:0-3-0,0-2-4], [11:0-2-8,0-3-0], [13:0-3-0,0-2-4], [23:0-2-12,0-3-0], [24:0-2-12,0-3-4], [26:0-4-0,0-4-4]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.62	Vert(LL)	-0.11	23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.59	Vert(CT)	-0.23	23-24	>999	180		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.61	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 603 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 *Except* 7-25,10-22: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 26=0-5-8, 17=0-5-8.
(lb) - Max Horz 2=-63(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-299(LC 4), 26=-1903(LC 4), 17=-1364(LC 4), 15=-958(LC 21)
Max Grav All reactions 250 lb or less at joint(s) except 2=409(LC 1), 26=4689(LC 21), 17=3726(LC 22), 15=319(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-307/411, 3-4=-168/365, 4-5=-136/347, 5-6=-1245/3635, 6-7=-1031/2871, 7-9=-1011/2782, 9-10=-3770/1253, 10-11=-3659/1237, 11-12=-2936/1047, 12-13=-469/1575, 13-14=-892/2801, 14-15=-867/2685
BOT CHORD 2-28=-357/316, 26-28=-1459/428, 25-26=-476/138, 7-24=-381/186, 23-24=-281/1041, 10-23=-612/305, 21-22=-139/377, 19-21=-526/1663, 18-19=-526/1663, 17-18=-1650/597, 15-17=-2466/846
WEBS 3-28=-251/168, 4-28=-458/135, 5-28=-742/1791, 5-26=-2720/1215, 6-26=-1066/384, 24-26=-3504/1343, 6-24=-306/1058, 9-24=-4181/1519, 9-23=-969/3030, 21-23=-827/2653, 11-23=-203/722, 11-21=-916/402, 12-21=-461/1472, 12-19=-1/470, 12-18=-3665/1239, 13-18=-509/1498, 13-17=-3237/1171

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

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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 29,2025

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T04	Hip Girder	1	2	T37160318

- NOTES-**
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 2, 1903 lb uplift at joint 26, 1364 lb uplift at joint 17 and 958 lb uplift at joint 15.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 179 lb up at 7-0-0 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

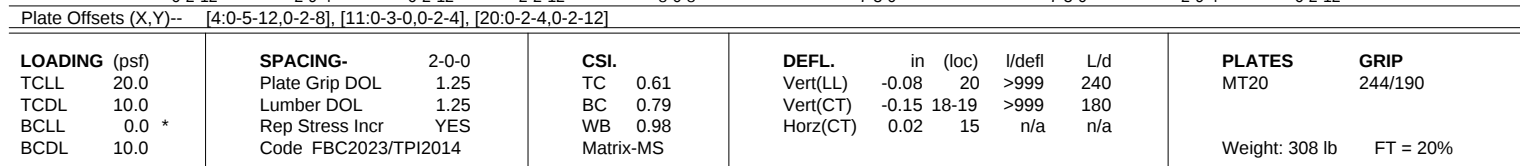
Uniform Loads (plf)

Vert: 1-4=-60, 4-13=-60, 13-16=-60, 25-29=-20, 23-24=-20, 22-32=-20

Concentrated Loads (lb)

Vert: 4=-95(F) 8=-112(F) 13=-80(F) 25=-63(F) 7=-117(F) 10=-126(F) 28=-220(F) 5=-117(F) 6=-117(F) 23=-72(F) 18=87(F) 35=-117(F) 36=-117(F) 37=-117(F) 38=-112(F) 39=-112(F) 40=-112(F) 41=-126(F) 42=-126(F) 43=-126(F) 44=-126(F) 45=-126(F) 46=-126(F) 47=-126(F) 48=-126(F) 49=-63(F) 50=-63(F) 51=-63(F) 52=-63(F) 53=-86(F) 54=-86(F) 55=-86(F) 56=-86(F) 57=-72(F) 58=-72(F) 59=-72(F) 60=-72(F) 61=-72(F) 62=-72(F) 63=-72(F) 64=-72(F)

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ID: iLFy0EbZAAyMv2fSVKQNPZzSscM-J92Q0PziMQzrCmByfrDDRYN5mSJSdDnICBkVzM7bA
|-2-0-0| 4-11-8 | 9-0-0 | 15-2-12 | 17-5-8 | 21-5-12 | 25-6-0 | 32-9-0 | 40-0-0 | 44-0-8 | 49-0-0 | 51-0-0 |
| 2-0-0 | 4-11-8 | 4-0-8 | 6-2-12 | 2-2-12 | 4-0-4 | 4-0-4 | 7-3-0 | 7-3-0 | 4-0-8 | 4-11-8 | 2-0-0 |
Scale = 1:87.7



REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-5-8, 15=0-5-8.
(lb) - Max Horz 2=-77(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-266(LC 8), 23=-688(LC 8), 15=-485(LC 9), 13=-133(LC 25)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=501(LC 25), 23=1989(LC 1), 15=1611(LC 26)

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

TOP CHORD	2-3=-487/456, 3-4=-335/438, 4-5=-142/851, 5-6=-29/405, 6-7=-42/414, 7-9=-1514/521, 9-10=-1508/531, 11-12=-200/840, 12-13=-190/701
BOT CHORD	2-26=-356/413, 22-23=-851/260, 21-22=-966/282, 20-21=-211/746, 9-20=-333/167, 16-18=-316/1237, 13-15=-630/227
WEBS	4-26=-238/407, 4-23=-1033/381, 5-23=-1166/377, 5-22=-233/925, 7-21=-1361/439, 7-20=-220/929, 18-20=-262/1083, 10-20=-93/291, 10-16=-1229/400, 11-16=-131/631, 11-15=-1512/428

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 9-0-0, Zone2 9-0-0 to 15-11-2, Zone1 15-11-2 to 4-0-0, Zone2 4-0-0 to 46-11-3, Zone1 46-11-3 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 266 lb uplift at joint 2, 688 lb uplift at joint 23, 485 lb uplift at joint 15 and 133 lb uplift at joint 13.

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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 29, 2025



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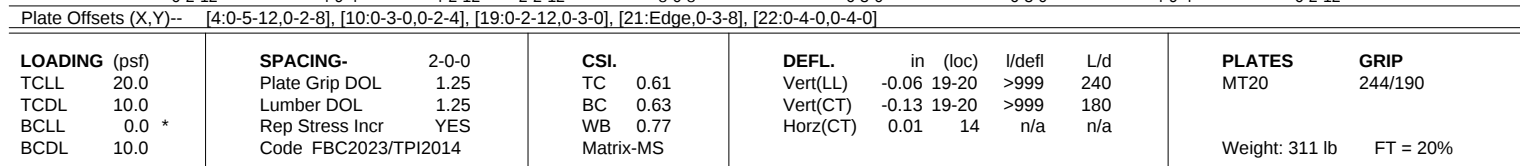
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-2-0-0	6-2-12	11-0-0	17-5-8	21-5-12	25-6-0	31-9-0	38-0-0	42-9-4	49-0-0	51-0-0
2-0-0	6-2-12	4-9-4	6-5-8	4-0-4	4-0-4	6-3-0	6-3-0	4-9-4	6-2-12	2-0-0

Scale = 1:87.1



REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-5-8, 14=0-5-8.
 (lb) - Max Horz 2=91(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-256(LC 8), 22=-685(LC 8), 14=-434(LC 13), 12=-113(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=485(LC 25), 22=2048(LC 1), 14=1488(LC 26)

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

TOP CHORD	2-3=-408/433, 3-4=0/365, 4-5=-138/827, 5-6=-5/353, 6-8=-1221/441, 8-9=-1212/444, 9-10=-574/274, 10-11=-686/269, 11-12=-130/545
BOT CHORD	2-25=-324/323, 23-25=-324/323, 22-23=-313/144, 21-22=-327/126, 5-20=-154/744, 19-20=-135/573, 8-19=-311/155, 15-17=-269/1129, 14-15=-442/176, 12-14=-442/176
WEBS	3-25=-122/271, 3-23=-595/337, 4-23=-214/339, 4-22=-924/345, 5-22=-1226/371, 6-20=-1173/363, 6-19=-204/866, 17-19=-226/1039, 9-15=-706/239, 11-15=-278/1151, 11-14=-1297/435

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 2-0-0 to 2-10-13, Zone1 2-10-13 to 11-0-0, Zone2 11-0-0 to 17-11-2, Zone1 17-11-2 to 38-0-0, Zone2 38-0-0 to 44-11-3, Zone1 44-11-3 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 256 lb uplift at joint 2, 685 lb uplift at joint 22, 434 lb uplift at joint 14 and 113 lb uplift at joint 12.

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

April 29, 2025



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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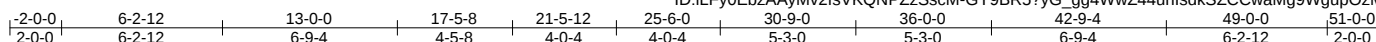
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Job Reference (optional)

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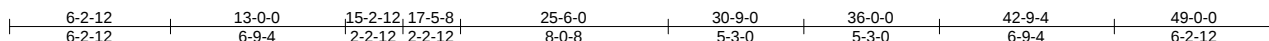
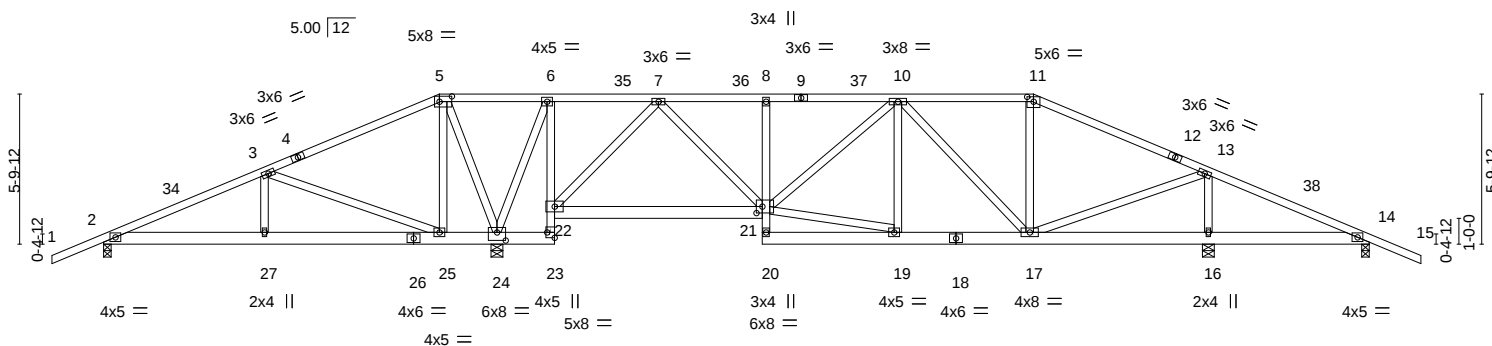


Plate	Offset (X,Y)	Size (X,Y)	Material	Notes	
1	[5:0-5-12.0-2-8].	[11:0-3-0.0-2-4].	[21:0-2-12.0-3-0].	[23:Edge.0-3-8].	[24:0-4-0.0-3-12]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.56	Vert(LL) -0.05 21-22 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.57	Vert(CT) -0.12 21-22 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT) 0.01 16 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 323 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-23,8-20: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-6-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 21-22,20-21,17-19.

REACTIONS.

All bearings 0-3-8 except (it=length) 24=0-5-8, 16=0-5-8.

(lb) - Max Horz 2=104(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-258(LC 8), 24=-658(LC 8), 16=-411(LC 13), 14=-139(LC 9)

Max Gray All reactions 250 lb or less at joint(s) 14 except 2=487(LC 25). 24=2071(LC 1). 16=1388(LC 26)

FORCES. (1

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

TOP CHORD 2-3=-440/444, 3-5=-10/499, 5-6=-71/690, 6-7=0/317, 7-8=-1045/411, 8-10=-1039/415,
10-11=-770/350, 11-13=-922/338, 13-14=-60/301

BOT CHORD 2-27=-339/362, 25-27=-339/362, 24-25=-434/154, 23-24=-298/125, 6-22=-157/773,
21-22=-106/513, 8-21=-275/137, 17-19=-219/1017

WEBS 3-27=-128/302, 3-25=-788/429, 5-25=-217/339, 5-24=-797/320, 6-24=-1128/310,
7-22=-1117/337, 7-21=-172/790, 19-21=-181/969, 10-17=-399/150, 13-17=-237/1046,
13-16=-1199/433

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., Gcpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 13-0-0, Zone2 13-0-0 to 19-11-2, Zone1 19-11-2 to 36-0-0, Zone2 36-0-0 to 42-9-4, Zone1 42-9-4 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 2, 658 lb uplift at joint 24, 411 lb uplift at joint 16 and 139 lb uplift at joint 14.

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 29, 2025



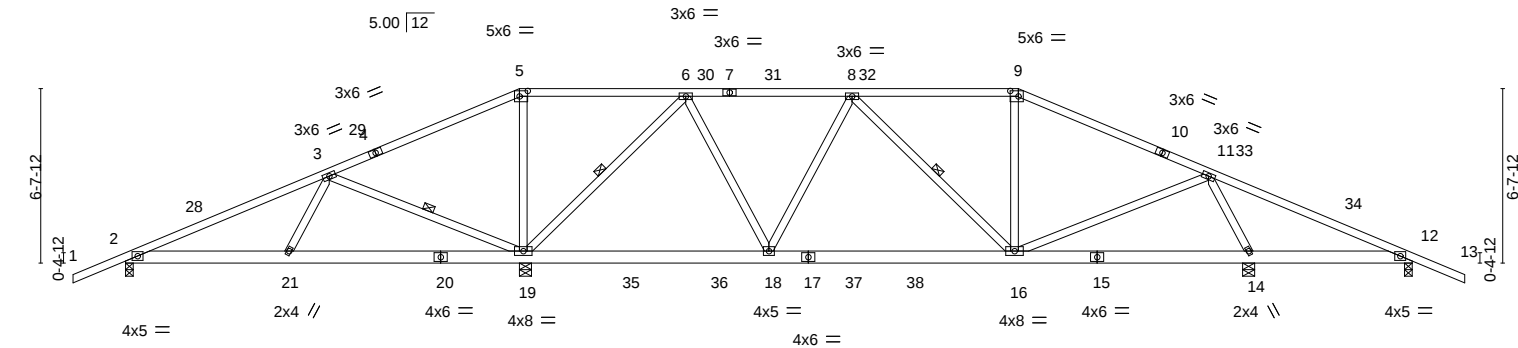
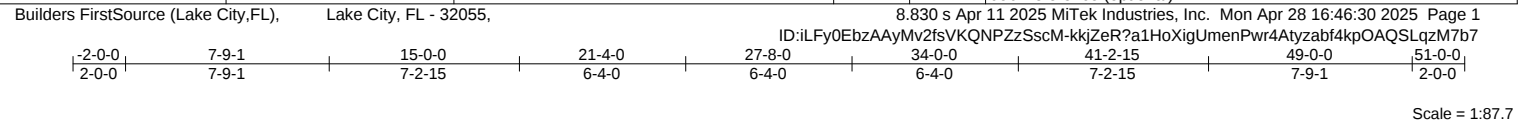
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T08	Hip	1	1	T37160322
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:30 2025 Page 1
Job Reference (optional)					ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-kkjZeR?a1HoXigUmenPwr4Atyzabf4kpOAOQSLqzM7b7



		6-2-12		15-0-0		15-2-12		24-6-0		34-0-0		42-9-4		49-0-0		
		6-2-12		8-9-4		0-2-12		9-3-4		9-6-0		8-9-4		6-2-12		
Plate Offsets (X,Y)-- [5:0-3-12,0-2-8], [9:0-3-12,0-2-8]																
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP		
TCLL	20.0	Plate Grip DOL 1.25				TC	0.70	Vert(LL)	-0.08	16-18	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL 1.25				BC	0.43	Vert(CT)	-0.14	16-18	>999	180				
BCLL	0.0 *	Rep Stress Incr YES				WB	0.61	Horz(CT)	0.02	14	n/a	n/a				
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS								Weight: 293 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-14 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 3-19, 6-19, 8-16

REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-5-8, 14=0-5-8.
(lb) - Max Horz 2=118(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-215(LC 8), 19=-692(LC 8), 14=-391(LC 13), 12=-143(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=475(LC 25), 19=2318(LC 2), 14=1524(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-366/269, 3-5=-190/779, 5-6=-130/674, 6-8=-808/273, 8-9=-934/347, 9-11=-1088/332, 11-12=-81/396
BOT CHORD 2-21=-165/342, 18-19=0/456, 16-18=-115/959, 14-16=-48/324, 12-14=-298/157
WEBS 3-21=-193/379, 3-19=-816/437, 5-19=-622/235, 6-19=-1479/420, 6-18=-136/812, 8-18=-429/197, 11-16=-61/685, 11-14=-1327/451

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 15-0-0, Zone2 15-0-0 to 21-11-2, Zone1 21-11-2 to 34-0-0, Zone2 34-0-0 to 40-11-3, Zone1 40-11-3 to 51-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 215 lb uplift at joint 2, 692 lb uplift at joint 19, 391 lb uplift at joint 14 and 143 lb uplift at joint 12.

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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 29,2025

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160323
4573903	T09	HIP	2	1		

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:31 2025 Page 1

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-2-0-0 | 8-0-0 | 15-5-8 | 17-0-0 | 23-0-0 | 29-0-0 | 32-0-0 | 37-0-0 | 42-6-8 | 49-0-0 | 51-0-0 |

2-0-0 | 8-0-0 | 7-5-8 | 1-6-8 | 6-0-0 | 6-0-0 | 3-0-0 | 5-0-0 | 5-6-8 | 6-5-8 | 2-0-0 |

Scale = 1:89.2

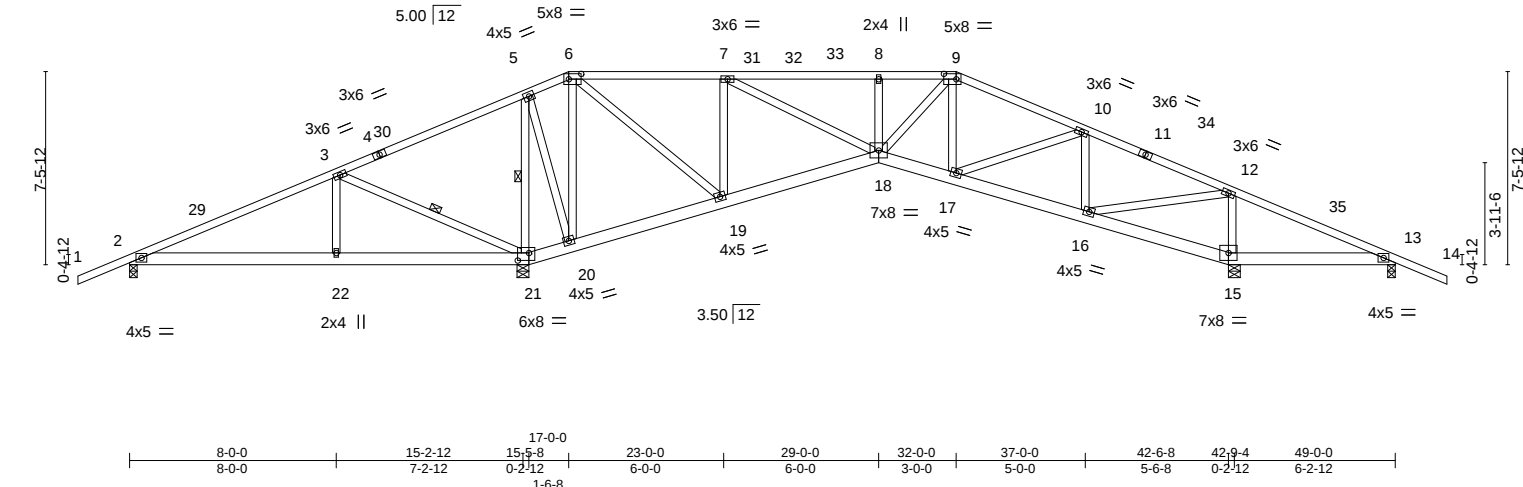


Plate Offsets (X,Y)--		[6:0-5-12,0-2-8], [9:0-5-12,0-2-8], [21:0-5-4,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76
TCDL 10.0	Lumber DOL	1.25	BC 0.27
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.07 18 >999 240
		Vert(CT)	-0.14 18 >999 180
		Horz(CT)	0.07 15 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 310 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-2-13 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 3-21, 5-21

REACTIONS. All bearings 0-3-8 except (jt=length) 21=0-5-8, 15=0-5-8.
(lb) - Max Horz 2=-132(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-207(LC 8), 21=-677(LC 8), 15=-426(LC 13), 13=-115(LC 25)
Max Grav All reactions 250 lb or less at joint(s) 13 except 2=391(LC 25), 21=2239(LC 1), 15=1603(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-60/476, 3-5=-220/1070, 5-6=-88/672, 6-7=-320/142, 7-8=-1094/279, 8-9=-1094/279, 9-10=-988/279, 10-12=-652/235, 12-13=-155/949
BOT CHORD 2-22=-410/212, 21-22=-410/212, 20-21=-1014/384, 19-20=-701/323, 18-19=0/342, 17-18=-1/883, 16-17=-40/576, 15-16=-933/255, 13-15=-811/218
WEBS 3-22=-168/368, 3-21=-862/458, 5-21=-1451/344, 5-20=-194/1040, 6-20=-1090/264, 6-19=-264/1133, 7-19=-816/262, 7-18=-155/874, 8-18=-283/144, 9-18=-43/359, 10-17=-16/334, 10-16=-580/172, 12-16=-276/1436, 12-15=-1176/366

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 17-0-0, Zone2 17-0-0 to 23-11-2, Zone1 23-11-2 to 32-0-0, Zone2 32-0-0 to 38-11-2, Zone1 38-11-2 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 207 lb uplift at joint 2, 677 lb uplift at joint 21, 426 lb uplift at joint 15 and 115 lb uplift at joint 13.

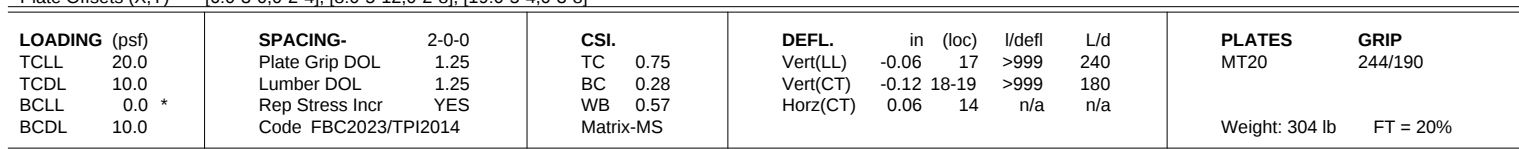
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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 29,2025

Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:31 2025 Page 1
 ID:iLFy0EbZAAyMv2fsVKQNPZzSscM-CwHxsn0CobwQJq3yBVw9NH1uNx8OYhydq9?GzM7b6

 Scale = 1/8" = 1'-0"



REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-5-8, 14=0-5-8.
 (lb) - Max Horz 2=-146(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-215(LC 8), 19=-638(LC 8), 14=-405(LC 13), 12=-134(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=421(LC 25), 19=2234(LC 1), 14=1500(LC 26)

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

TOP CHORD	2-3=-140/408, 3-5=-205/1033, 5-6=-129/990, 6-7=-508/186, 7-8=-923/249, 8-9=-1080/257, 9-11=-968/292, 11-12=-1077/709
BOT CHORD	2-20=-348/208, 19-20=-348/208, 18-19=-353/277, 17-18=0/530, 16-17=0/944, 15-16=-86/875, 14-15=-698/207, 12-14=-587/172
WEBS	3-20=-175/362, 3-19=-869/458, 5-19=-355/219, 6-19=-1406/286, 6-18=-177/1020, 7-18=-748/217, 7-17=-84/561, 9-15=-475/155, 11-15=-270/1481, 11-14=-1139/366

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3-2-0-0 to 2-10-13, Zone1 2-10-13 to 19-0-0, Zone2 19-0-0 to 25-11-2, Zone1 25-11-2 to 30-0-0, Zone2 30-0-0 to 36-11-3, Zone1 36-11-3 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 2, 638 lb uplift at joint 19, 405 lb uplift at joint 14 and 134 lb uplift at joint 12.

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Date:

April 29, 2025



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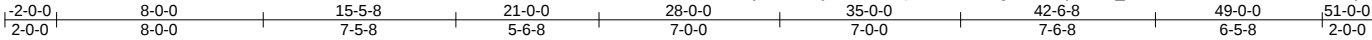
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-USA.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160325
4573903	T11	HIP	2	1	Job Reference (optional)	

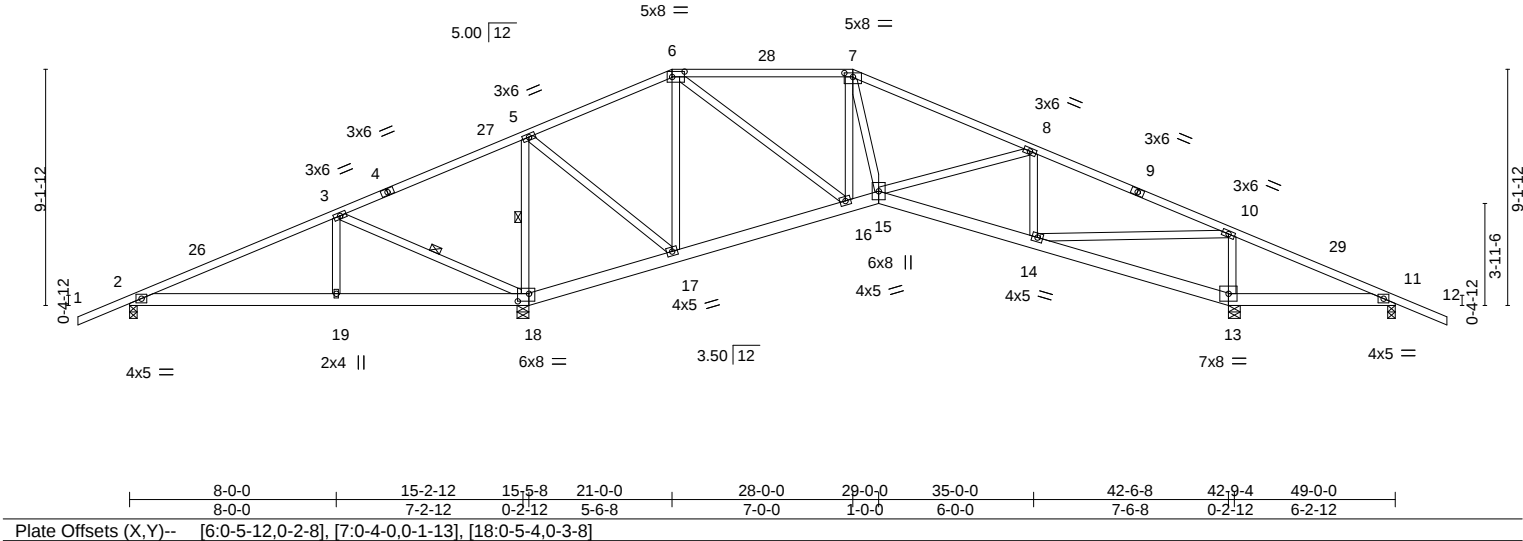
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:32 2025 Page 1

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Scale = 1:89.2



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) -0.06 14-15 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.29	Vert(CT) -0.13 14-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.07 13 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 302 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 15-16,14-15.
WEBS 1 Row at midpt 3-18, 5-18

REACTIONS.

All bearings 0-3-8 except (jt=length) 18=0-5-8, 13=0-5-8.
(lb) - Max Horz 2=160(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-227(LC 8), 18=-589(LC 8), 13=-405(LC 13), 11=-139(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=451(LC 25), 18=2221(LC 1), 13=1467(LC 26)

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

TOP CHORD 2-3=-216/377, 3-5=-174/1010, 6-7=-720/239, 7-8=-998/230, 8-10=-1109/312, 10-11=-99/645
BOT CHORD 2-19=-319/205, 18-19=-319/205, 17-18=-945/343, 16-17=-76/254, 15-16=0/745, 14-15=-98/992, 13-14=-632/198, 11-13=-523/162
WEBS 3-19=-173/373, 3-18=-870/445, 5-18=-1491/370, 5-17=-168/1161, 6-17=-868/191, 6-16=-139/857, 7-16=-549/148, 7-15=-46/504, 8-14=-389/147, 10-14=-270/1525, 10-13=-1125/375

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 21-0-0, Zone3 21-0-0 to 28-0-0, Zone2 28-0-0 to 35-0-0, Zone1 35-0-0 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 227 lb uplift at joint 2, 589 lb uplift at joint 18, 405 lb uplift at joint 13 and 139 lb uplift at joint 11.

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 29,2025

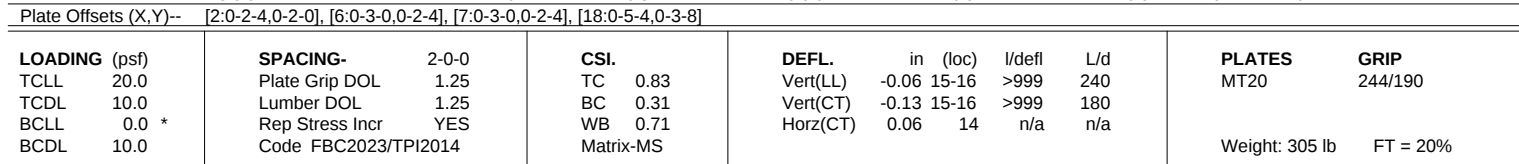
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:33 2025 Page 1
 ID: iLFy0EbZAAyMv2fsVKQNPZzSscM-8JPiGT2TKCA6Z7DLJvydTioMBBd7sP0F48e6y9m7b4
 2-0-0 8-0-0 15-5-8 23-0-0 26-0-0 29-0-0 35-9-4 42-6-8 49-0-0 51-0-0
 2-0-0 8-0-0 7-5-8 7-6-8 3-0-0 3-0-0 6-9-4 6-9-4 6-5-8 2-0-0
 Scale = 1:89



REACTIONS. All bearings 0-3-8 except (jt=length) 18=0-5-8, 14=0-5-8.
 (lb) - Max Horz 2=-174(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-232(LC 8), 18=-551(LC 8), 14=-404(LC 13), 12=-146(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=468(LC 25), 18=2214(LC 1), 14=1469(LC 1)

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

TOP CHORD	2-3=-255/354, 3-5=-168/990, 5-6=-322/155, 7-8=-968/316, 8-9=-995/227, 9-11=-989/286, 11-12=-110/566
BOT CHORD	2-19=-299/217, 18-19=-299/217, 17-18=-924/345, 16-17=0/466, 15-16=-80/889, 14-15=-674/211, 12-14=-565/174
WEBS	3-19=-177/368, 3-18=-841/434, 5-18=-1485/389, 5-17=-138/1213, 6-17=-264/131, 7-17=-611/110, 7-16=-204/914, 8-16=-338/207, 9-15=-431/155, 11-15=-266/1464, 11-14=-1118/365

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., Gcpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 2-0-0 to 2-10-13, Zone1 2-10-13 to 23-0-0, Zone3 23-0-0 to 26-0-0, Zone2 26-0-0 to 32-11-2, Zone1 32-11-2 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 232 lb uplift at joint 2, 551 lb uplift at joint 18, 404 lb uplift at joint 14 and 146 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 29, 2025



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 DS-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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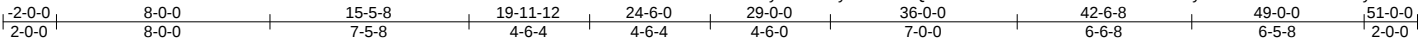
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-USA.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160327
4573903	T13	ROOF SPECIAL	4	1	Job Reference (optional)	

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

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ID:ILFy0EbzAAyMv2fsVKQNPZzSscM-8JPiGT2TKCA6Z7DLJvydTioNdBd8sNZF48e6y9zM7b4



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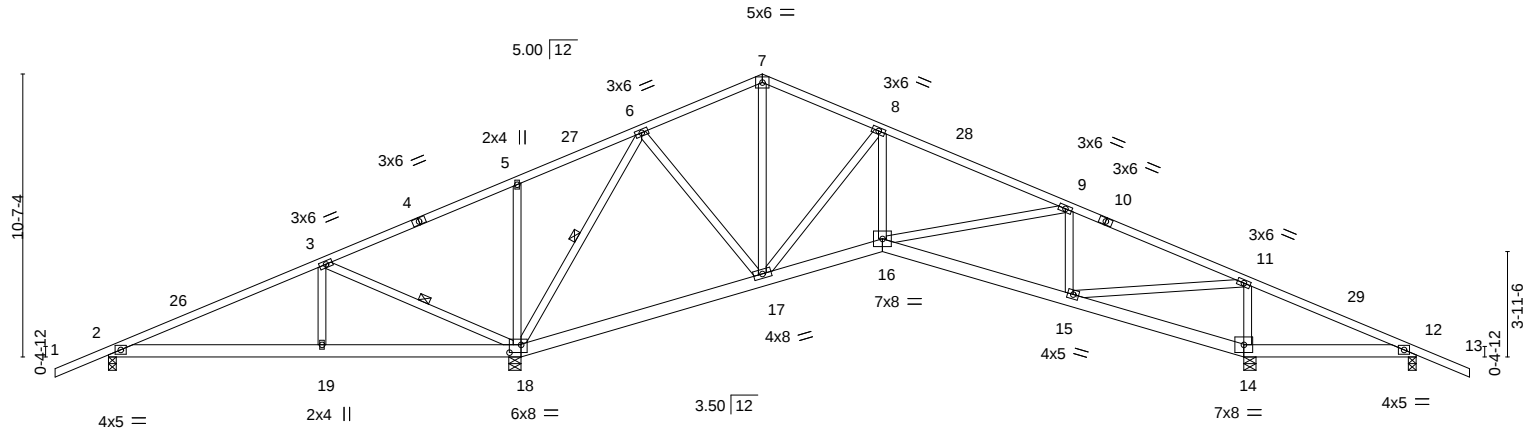


Plate Offsets (X,Y)--	[18:0-5-4,0-3-8]
-----------------------	------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.06 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.13 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.07 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 307 lb	FT = 20%

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

REACTIONS.	All bearings 0-3-8 except (jt=length) 18=0-5-8, 14=0-5-8.
(lb) - Max Horz	2=184(LC 16)
Max Uplift	All uplift 100 lb or less at joint(s) except 2=-233(LC 8), 18=-532(LC 12), 14=-389(LC 13), 12=-156(LC 9)
Max Grav	All reactions 250 lb or less at joint(s) 12 except 2=481(LC 25), 18=2198(LC 1), 14=1483(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-293/308, 3-5=-183/976, 5-6=-109/950, 6-7=-382/180, 7-8=-391/171, 8-9=-1009/220, 9-11=-955/284, 11-12=-92/708
BOT CHORD	2-19=-256/229, 18-19=-256/229, 17-18=-188/284, 16-17=0/895, 15-16=-81/859, 14-15=-697/194, 12-14=-587/159
WEBS	3-19=-176/361, 3-18=-867/452, 5-18=-370/225, 6-18=-1463/236, 6-17=-57/708, 8-17=-891/226, 8-16=-5/559, 9-15=-448/153, 11-15=-251/1469, 11-14=-1127/353

- 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 24-6-0, Zone2 24-6-0 to 31-5-2, Zone1 31-5-2 to 51-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 233 lb uplift at joint 2, 532 lb uplift at joint 18, 389 lb uplift at joint 14 and 156 lb uplift at joint 12.

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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 29,2025

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

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

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

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T14	Hip Girder	1	2	T37160328

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:39 2025 Page 1

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-2-0-0 | 3-11-8 | 7-0-0 | 11-2-4 | 15-2-12 | 19-10-6 | 24-6-0 | 29-1-10 | 33-9-4 | 37-9-12 | 42-0-0 | 45-0-8 | 49-0-0 | 51-0-0 |

2-0-0 | 3-11-8 | 3-0-8 | 4-2-4 | 4-0-8 | 4-7-10 | 4-7-10 | 4-7-10 | 4-7-10 | 4-0-8 | 4-2-4 | 3-0-8 | 3-11-8 | 2-0-0 |

Scale = 1:87.2

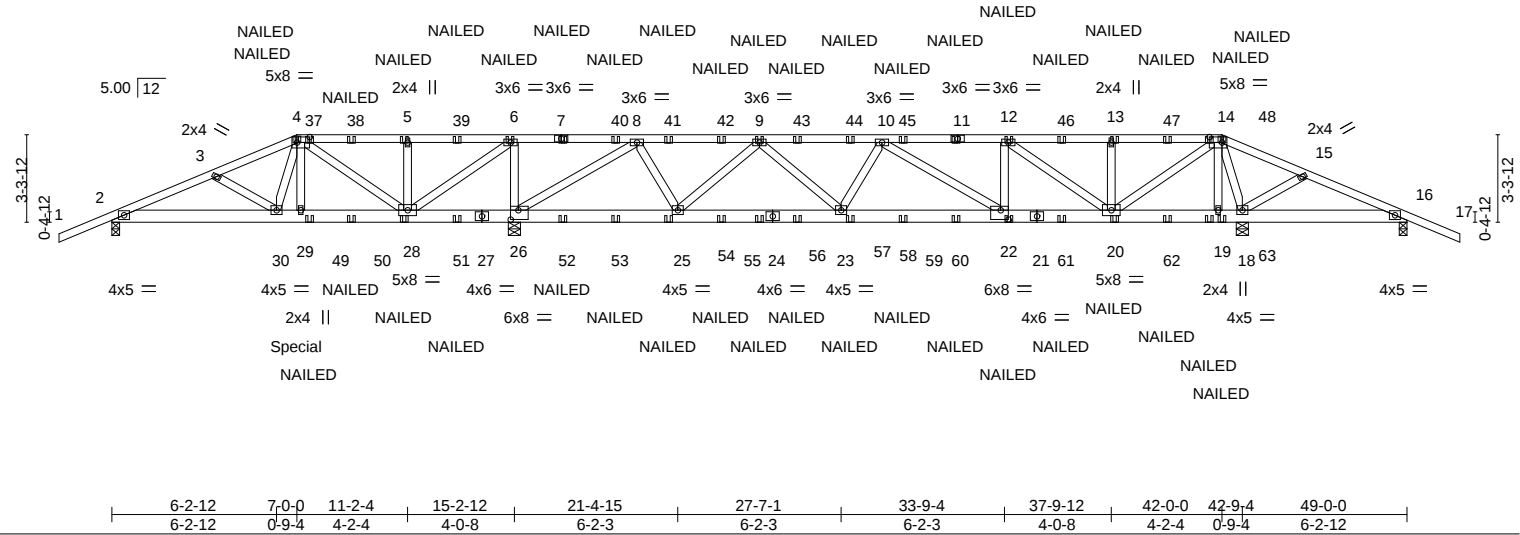


Plate Offsets (X,Y)--										[4:0-5-12,0-2-8], [14:0-5-12,0-2-8], [22:0-3-8,0-4-4], [26:0-3-8,0-4-4]									
LOADING (psf)		SPACING- 2-0-0				CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25				TC	0.58	Vert(LL)	0.10	22-23	>999	240	MT20	244/190					
TCDL	10.0	Lumber DOL 1.25				BC	0.34	Vert(CT)	-0.15	22-23	>999	180							
BCLL	0.0 *	Rep Stress Incr NO				WB	0.60	Horz(CT)	0.02	18	n/a	n/a							
BCDL	10.0	Code FBC2023/TPI2014				Matrix-MS						Weight: 596 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 26=0-5-8, 18=0-5-8.
(lb) - Max Horz 2=63(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-269(LC 4), 26=-2169(LC 4), 18=-1736(LC 4), 16=-793(LC 21)
Max Grav All reactions 250 lb or less at joint(s) except 2=538(LC 1), 26=4413(LC 21), 18=3484(LC 22), 16=415(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-628/327, 3-4=-445/295, 4-5=-385/913, 5-6=-385/913, 6-8=-1403/2958, 8-9=-1108/556, 9-10=-3010/1480, 10-12=-2636/1318, 12-13=-1151/622, 13-14=-1151/622, 14-15=-1109/2429, 15-16=-1072/2290
BOT CHORD 2-30=-272/553, 29-30=-164/354, 28-29=-176/368, 26-28=-2958/1510, 25-26=-101/319, 23-25=-1070/2383, 22-23=-1441/3135, 20-22=-1202/2636, 19-20=-1451/732, 18-19=-1438/732, 16-18=-2098/1034
WEBS 4-30=-126/287, 4-29=-269/362, 4-28=-1505/742, 5-28=-509/256, 6-28=-1304/2541, 6-26=-2038/1041, 8-26=-3829/1847, 8-25=-807/1704, 9-25=-1776/869, 9-23=-422/882, 10-23=-280/155, 10-22=-603/283, 12-22=-251/642, 12-20=-1855/865, 13-20=-522/263, 14-20=-1489/3145, 14-19=-259/123, 14-18=-3020/1557

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 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 B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 269 lb uplift at joint 2, 2169 lb uplift at joint 16 and 793 lb uplift at joint 18 and 793 lb uplift at joint 16.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

April 29,2025

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T14	Hip Girder	1	2	T37160328

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:39 2025 Page 2
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- NOTES-**
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 220 lb down and 179 lb up at 7'-0" 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=-60, 4-14=-60, 14-17=-60, 31-34=-20

Concentrated Loads (lb)

Vert: 4=-95(B) 7=-117(B) 14=-80(B) 29=-220(B) 28=-63(B) 5=-117(B) 6=-117(B) 9=-117(B) 22=-63(B) 12=-117(B) 13=-117(B) 20=-63(B) 19=87(B) 11=-117(B) 37=-117(B) 38=-117(B) 39=-117(B) 40=-117(B) 41=-117(B) 42=-117(B) 43=-117(B) 44=-117(B) 45=-117(B) 46=-117(B) 47=-117(B) 48=-117(B) 49=-63(B) 50=-63(B) 51=-63(B) 52=-63(B) 53=-63(B) 54=-63(B) 55=-63(B) 56=-63(B) 57=-63(B) 58=-63(B) 59=-63(B) 60=-63(B) 61=-63(B) 62=-63(B) 63=-63(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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MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T15	Hip	1	1	T37160329
Job Reference (optional)					

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:40 2025 Page 1

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4-11-8

9-0-0

15-2-12

21-4-15

27-7-1

33-9-4

40-0-0

44-0-8

49-0-0

51-0-0

-2-0-0

4-11-8

4-0-8

6-2-12

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6-2-12

4-0-8

4-11-8

2-0-0

Scale = 1:86.3

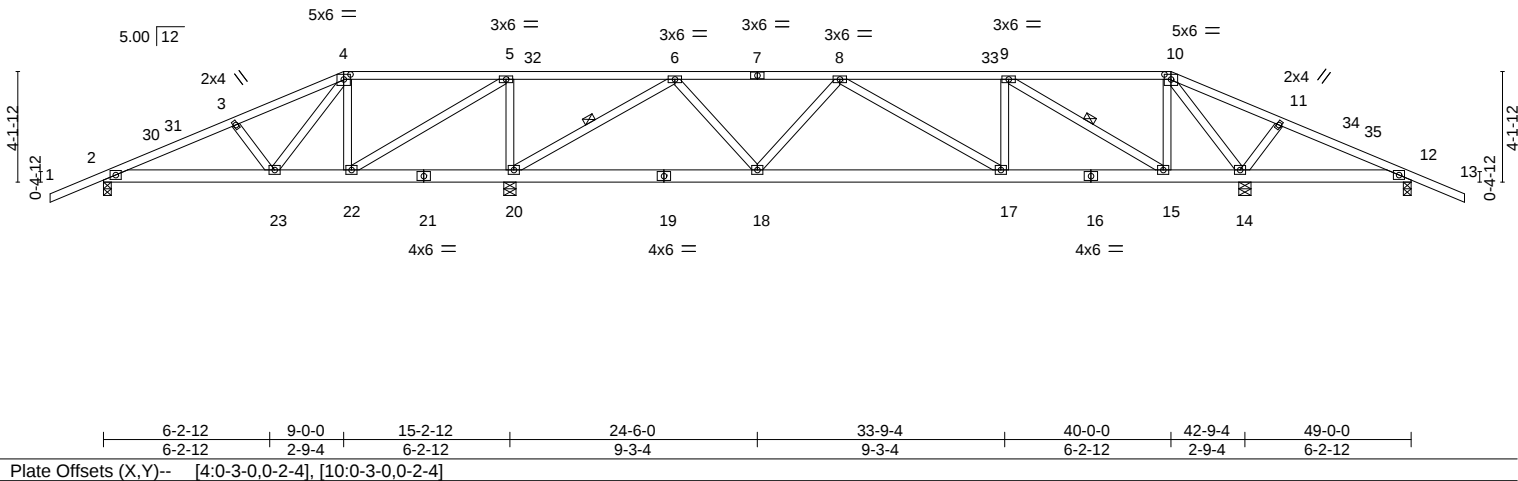


Plate Offsets (X,Y)--		[4:0-3-0,0-2-4], [10:0-3-0,0-2-4]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66
TCDL 10.0	Lumber DOL	1.25	BC 0.38
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
		DEFL.	in (loc) l/defl L/d
		Vert(LL)	-0.06 17-18 >999 240
		Vert(CT)	-0.15 17-18 >999 180
		Horz(CT)	0.02 14 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 290 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-1-1 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, 9-15

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 14=0-5-8.
(lb) - Max Horz 2=-77(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-239(LC 8), 20=-733(LC 8), 14=-453(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 12 except 2=470(LC 25), 20=2047(LC 1), 14=1544(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-408/368, 3-4=-255/349, 5-6=-260/969, 6-8=-964/285, 8-9=-1172/398,
10-11=-167/721, 11-12=-155/581
BOT CHORD 2-23=-275/369, 20-22=-969/387, 18-20=-81/544, 17-18=-294/1234, 15-17=-260/1172,
12-14=-519/195
WEBS 3-23=-252/150, 4-23=-231/402, 4-22=-532/176, 5-22=-443/1067, 5-20=-972/439,
6-20=-1695/532, 6-18=-135/678, 8-18=-444/214, 9-17=0/316, 9-15=-1144/338,
10-15=-131/615, 10-14=-1408/398, 11-14=-253/151

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 9-0-0, Zone2 9-0-0 to 15-11-2, Zone1 15-11-2 to 40-0-0, Zone2 40-0-0 to 46-11-2, Zone1 46-11-2 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 4x5 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=239, 20=733, 14=453.

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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 29,2025

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T16	Hip	1	1	T37160330
Job Reference (optional)					

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:40 2025 Page 1

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6-2-12

6-2-12

11-0-0

4-9-4

17-9-0

6-9-0

24-6-0

6-9-0

31-3-0

6-9-0

38-0-0

6-9-0

42-9-4

4-9-4

49-0-0

6-2-12

51-0-0

2-0-0

Scale = 1:86.3

Plate Offsets (X,Y)--		[4:0-5-12,0-2-8], [9:0-5-12,0-2-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72
TCDL 10.0	Lumber DOL	1.25	BC 0.38
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.05 16-17	>999	240
Vert(CT)	-0.13 16-17	>999	180
Horz(CT)	0.01 13	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 293 lb		FT = 20%	

LUMBER-		BRACING-			
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-1-10 oc purlins.		
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:		
WEBS	2x4 SP No.3	WEBS	10-0-0 oc bracing: 16-17,14-16.		
REACTIONS.		1 Row at midpt 8-17			
All bearings 0-3-8 except (jt=length) 19=0-5-8, 13=0-5-8.					
(lb) - Max Horz 2=-91(LC 17)					
Max Uplift All uplift 100 lb or less at joint(s) except 2=-221(LC 8), 19=-741(LC 8), 13=-405(LC 13), 11=-122(LC 9)					
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=451(LC 25), 19=2109(LC 1), 13=1445(LC 26)					

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-322/310, 3-4=-52/393, 4-5=-269/951, 5-6=-890/285, 6-8=-890/285, 8-9=-981/348, 9-10=-707/260, 10-11=-109/467
BOT CHORD	2-22=-211/301, 21-22=-211/301, 19-21=-338/225, 17-19=-295/221, 16-17=-245/1132, 14-16=-67/580, 13-14=-371/157, 11-13=-371/157
WEBS	3-22=-120/278, 3-21=-594/334, 4-21=-231/307, 4-19=-986/424, 5-19=-1366/489, 5-17=-365/1339, 6-17=-384/194, 8-17=-331/165, 8-16=-315/165, 9-16=-146/592, 9-14=-491/158, 10-14=-249/1093, 10-13=-1245/409

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 11-0-0, Zone2 11-0-0 to 17-9-0, Zone1 17-9-0 to 38-0-0, Zone2 38-0-0 to 44-11-2, Zone1 44-11-2 to 51-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 221 lb uplift at joint 2, 741 lb uplift at joint 19, 405 lb uplift at joint 13 and 122 lb uplift at joint 11.

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 29,2025

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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T17	Hip	1	1	T37160331
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

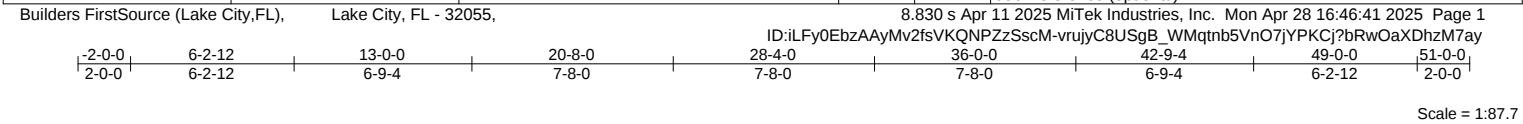


Plate Offsets (X,Y)--	[5:0-9-0,0-2-4], [9:0-9-0,0-2-4]
-----------------------	----------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.08 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.15 17-18	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.01 14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight: 297 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-3 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

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 14=0-5-8.
(lb) - Max Horz 2=-104(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-217(LC 8), 20=-723(LC 8), 12=-146(LC 9), 14=-380(LC 13)
Max Grav All reactions 250 lb or less at joint(s) except 2=454(LC 25), 20=2334(LC 2), 12=271(LC 1), 14=1454(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-353/293, 3-5=-113/636, 5-6=-213/881, 6-8=-839/259, 8-9=-993/336, 9-11=-998/315
BOT CHORD 2-23=-200/346, 22-23=-200/346, 20-22=-521/253, 18-20=0/370, 17-18=-185/1068, 15-17=-95/847
WEBS 3-23=-130/307, 3-22=-835/427, 5-22=-249/322, 5-20=-947/444, 6-20=-1598/503, 6-18=-149/889, 8-18=-489/224, 9-17=-48/390, 9-15=-328/110, 11-15=-204/1083, 11-14=-1154/403

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 13-0-0, Zone2 13-0-0 to 19-11-2, Zone1 19-11-2 to 36-0-0, Zone2 36-0-0 to 42-9-4, Zone1 42-9-4 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates 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 217 lb uplift at joint 2, 723 lb uplift at joint 20, 146 lb uplift at joint 12 and 380 lb uplift at joint 14.

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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:

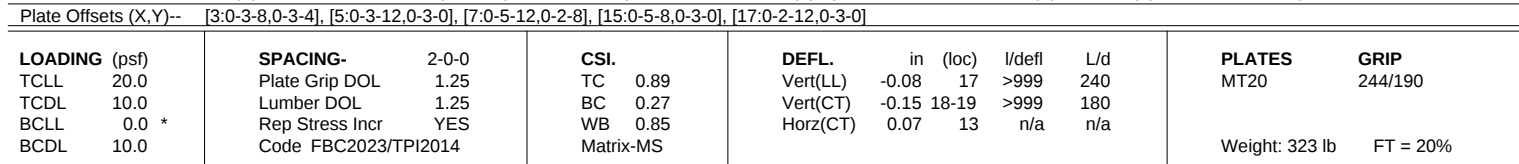
April 29,2025

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Chesterfield, MO 63017
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:42 2025 Page 1
 ID: iLFy0EbzAayMv2fsVKQNPZzSscM-N2S59Y96DzJq8WP3Lldkkcft3pirSS'a92K48zM7ax
 2-0-0 | 7-10-0 | 15-0-0 | 23-0-0 | 29-15 | 34-0-0 | 36-0-0 | 42-9-4 | 49-0-0 | 51-0-0 |
 2-0-0 | 7-10-0 | 7-2-0 | 8-0-0 | 6-9-15 | 4-2-1 | 2-0-0 | 6-9-4 | 6-2-12 | 2-0-0 |
 Scale = 1:89.



REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 13=0-5-8.
 (lb) - Max Horz 2=-118(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-195(LC 8), 11=-120(LC 27), 20=-714(LC 8), 13=-428(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 11 except 2=371(LC 25), 20=2426(LC 2), 13=1718(LC 28)

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

TOP CHORD 2-3=-67/488, 3-4=-243/1122, 4-5=-179/993, 5-6=-1098/342, 6-7=-1100/337,
7-8=-1058/320, 8-10=-1182/309, 10-11=-157/926

BOT CHORD 2-22=-423/221, 20-22=-415/223, 19-20=0/364, 6-17=-328/180, 16-17=-55/951,
15-16=-76/1014, 11-13=-797/217

WEBS 3-22=-164/336, 3-20=-915/486, 4-20=-802/268, 5-20=-1650/441, 5-19=0/288,
17-19=0/359, 5-17=-177/847, 13-15=-882/231, 10-15=-310/1825, 10-13=-1091/361

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 2-10-13, Zone1 2-10-13 to 15-0-0, Zone2 15-0-0 to 21-11-2, Zone1 21-11-2 to 34-0-0, Zone2 34-0-0 to 40-11-2, Zone1 40-11-2 to 51-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) The Fabrication Tolerance at joint 4 = 16%
 - 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 195 lb uplift at joint 2, 120 lb uplift at joint 11, 714 lb uplift at joint 20 and 428 lb uplift at joint 13.
- This item has been digitally signed and sealed by Velez, Joaquin, F on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified using electronic means.

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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 29, 2025



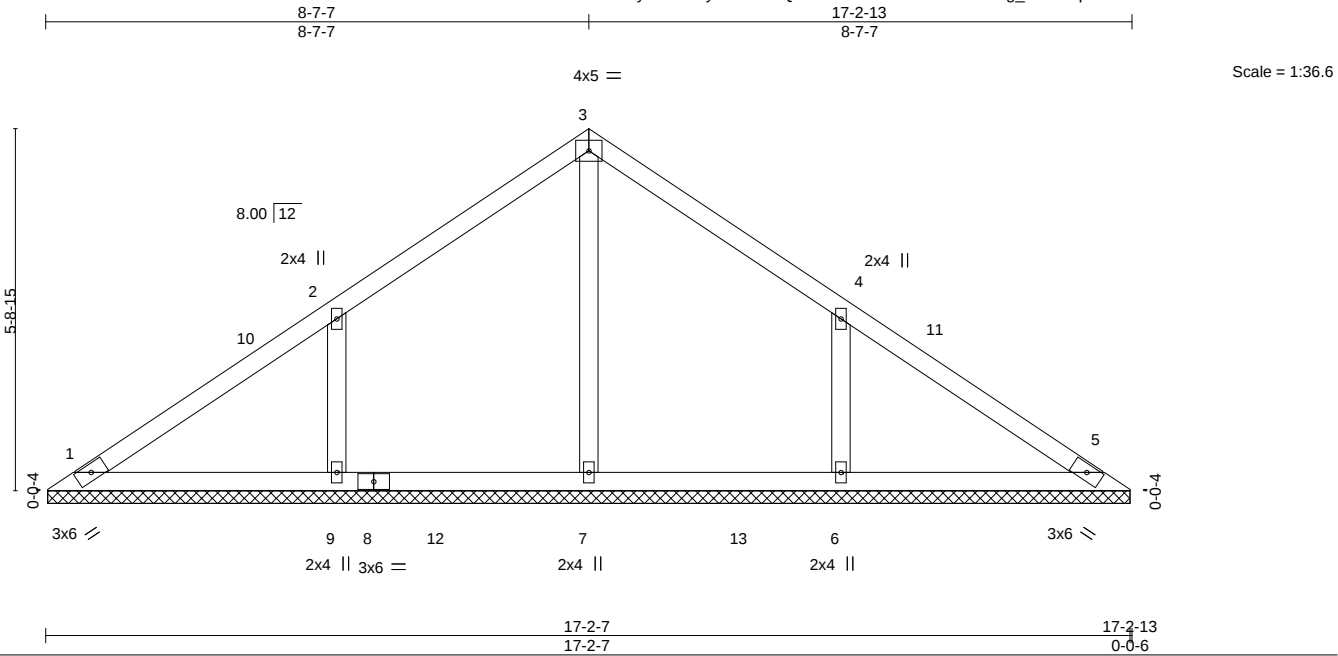
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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.tpinstitute.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160334
4573903	V02	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:43 2025 Page 1
ID:iLFy0EbZAAyMv2fsVKQNPZzSscM-rE?UNu9kzHRhlg_Gu08ztpCC5D3xB43kNi3eHazM7aw



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 0.23	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-S					Weight: 70 lb	FT = 20%

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

REACTIONS. All bearings 17-2-1.
(lb) - Max Horz 1=-134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-205(LC 12), 6=-205(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=339(LC 19), 9=491(LC 19), 6=491(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-314/224, 4-6=-314/224

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 8-7-7, Zone2 8-7-7 to 12-7-7, Zone1 12-7-7 to 16-9-1 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=205, 6=205.

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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 29,2025

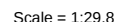
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Chesterfield, MO 63017
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:43 2025 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.3		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-267/193, 4-6=-267/193

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

April 29, 2025

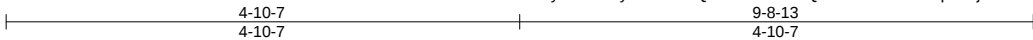
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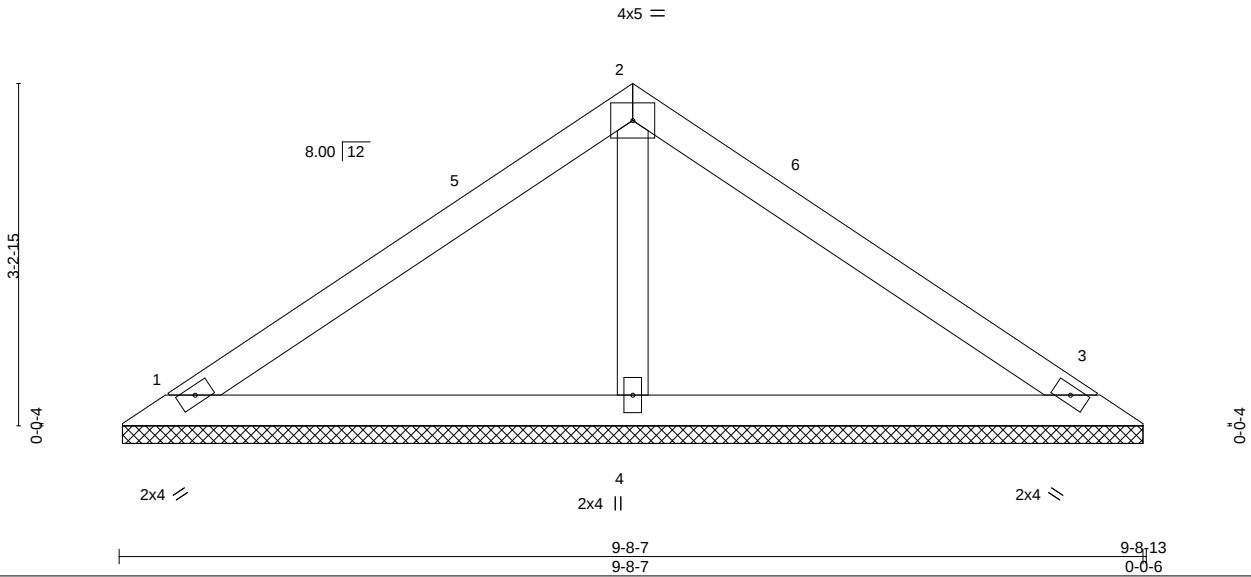
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	V05	Valley	1	1	T37160337
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,					Job Reference (optional)

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:44 2025 Page 1
ID:ILFy0EbZAAyMv2fsVKQNPZzSscM-JQZsaDAMkbZYNgZSSjICP1INWcOYwYztcMpBq0zM7av



Scale = 1:21.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
									Weight: 34 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 1=9-8-1, 3=9-8-1, 4=9-8-1
Max Horz 1=72(LC 9)
Max Uplift 1=-51(LC 12), 3=-60(LC 13), 4=-59(LC 12)
Max Grav 1=173(LC 1), 3=173(LC 1), 4=356(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 4-10-7, Zone3 4-10-7 to 9-3-1 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.
- Gable requires continuous bottom chord bearing.
- 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) 1, 3, 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 29,2025

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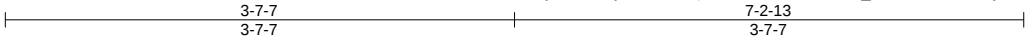
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160338
4573903	V06	Valley	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:45 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S						
									Weight: 25 lb FT = 20%

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

REACTIONS. (size) 1=7-2-1, 3=7-2-1, 4=7-2-1
Max Horz 1=-52(LC 8)
Max Uplift 1=-36(LC 12), 3=-43(LC 13), 4=-42(LC 12)
Max Grav 1=124(LC 1), 3=124(LC 1), 4=255(LC 1)

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

- NOTES-
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 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 29,2025

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

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

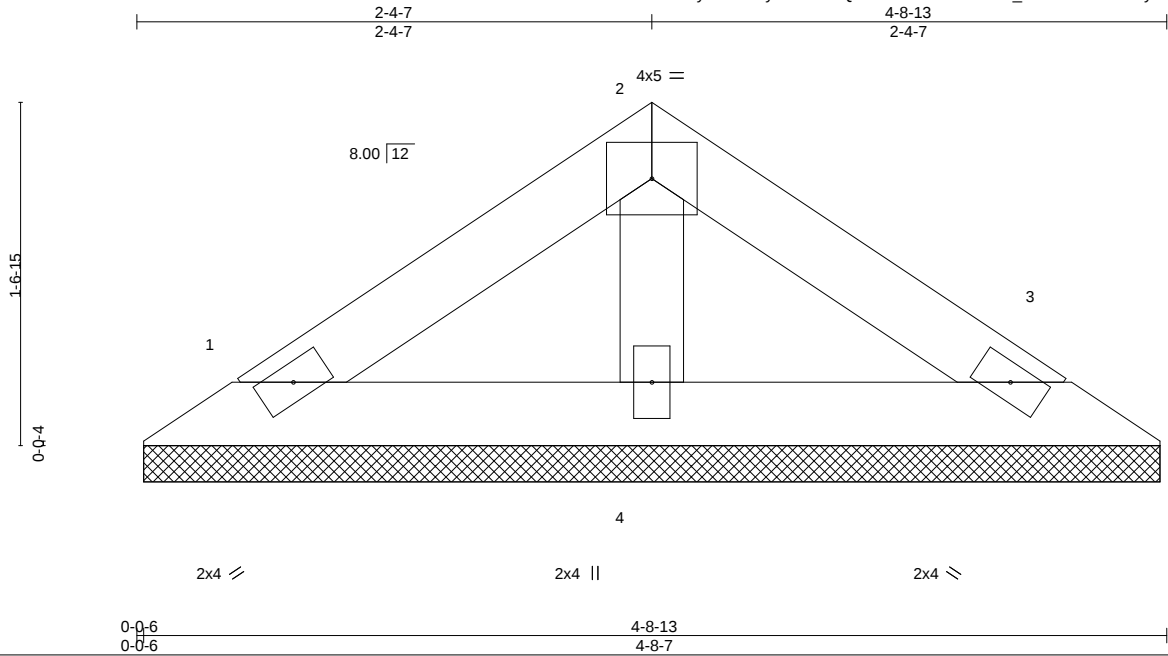
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	T37160339
4573903	V07	Valley	1	1	Job Reference (optional)	

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

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:45 2025 Page 1
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P						
								Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-8-1, 3=4-8-1, 4=4-8-1
Max Horz 1=-31(LC 8)
Max Uplift 1=-26(LC 12), 3=-30(LC 13), 4=-16(LC 12)
Max Grav 1=81(LC 1), 3=81(LC 1), 4=139(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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16023 Swingley Ridge Rd.
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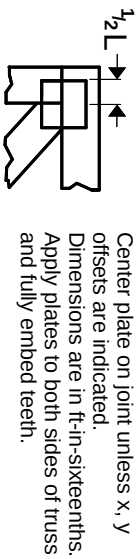
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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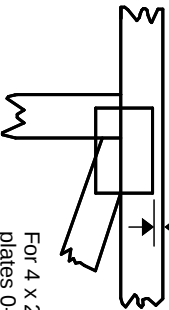
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

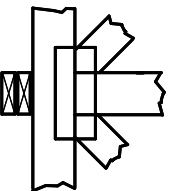
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

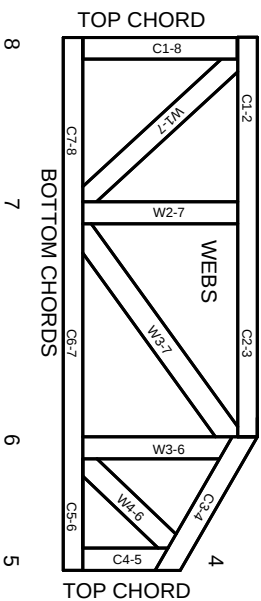
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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