

Lymber design values are in accordance with ANSI/TPI 1 section 6.3

RE: 4573903 - KURTIS-BETH

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Chesterfield, MO 63017

Customer Info: KG CONSTRUCTION Project Name: Kurtis-Beth Model: Custom Subdivision: N/A Lot/Block: N/A

314.434.1200

City: Columbia Cty

Address: TBD SW Otter Lane, N/A

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	<u>T</u> 10	4/29/25
5	T37160311	EJ02	4/29/25	19	T37160325	<u>T11</u>	4/29/25
<u>6</u>	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 T06	4/29/25	27	T37160333	V01 V02	4/29/25
14	T37160320	100	4/29/25	28	T37160334	VU2	4/29/25



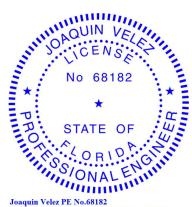
This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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.



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

April 29,2025



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

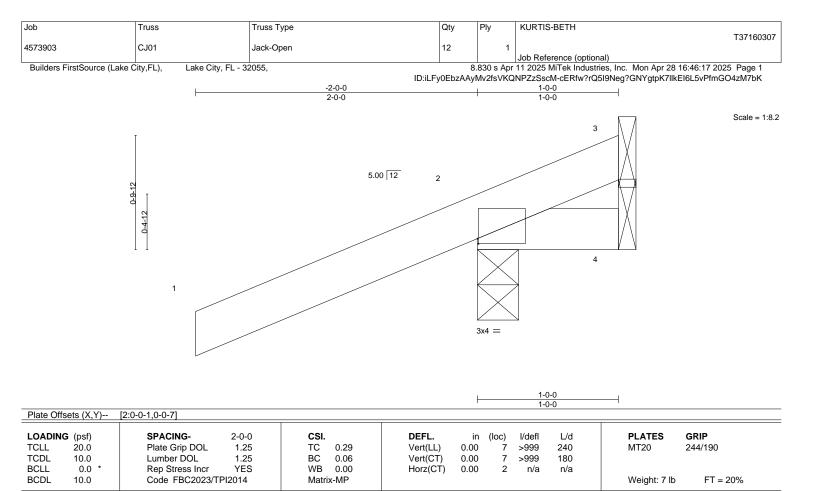
Site Information:

Customer Info: KG CONSTRUCTION Project Name: Kurtis-Beth Model: Custom

Lot/Block: N/A Address: TBD SW Otter Lane, N/A Subdivision: 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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

(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; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.

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Structural wood sheathing directly applied or 1-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

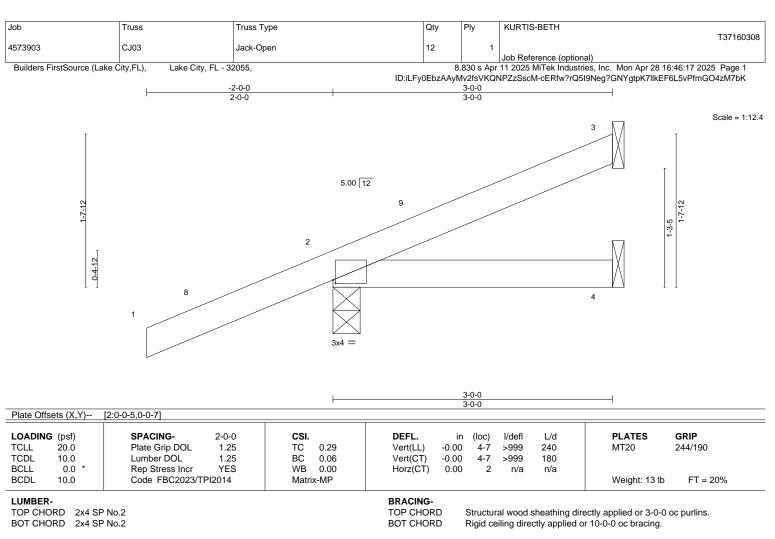
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

April 29,2025



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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.
- * 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.

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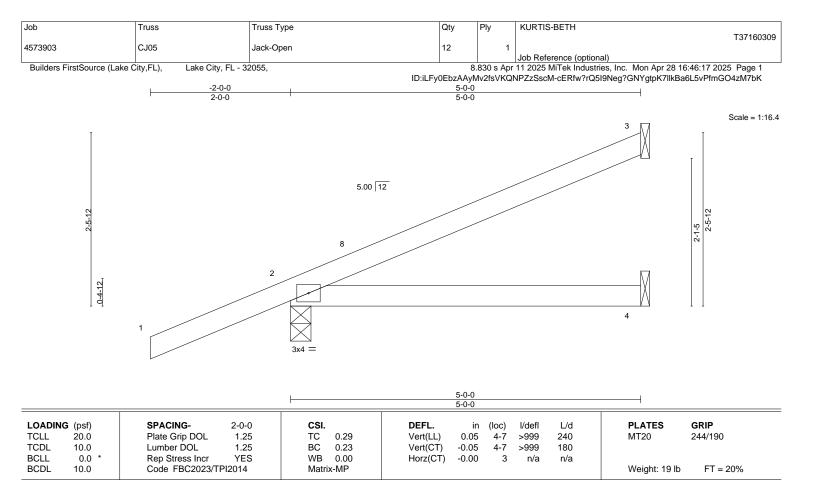
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LUMBER-

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

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=107(LC 12)

Max Uplift 3=-69(LC 12), 2=-145(LC 8), 4=-32(LC 9) Max Grav 3=119(LC 1), 2=342(LC 1), 4=88(LC 3)

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

NOTES-

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

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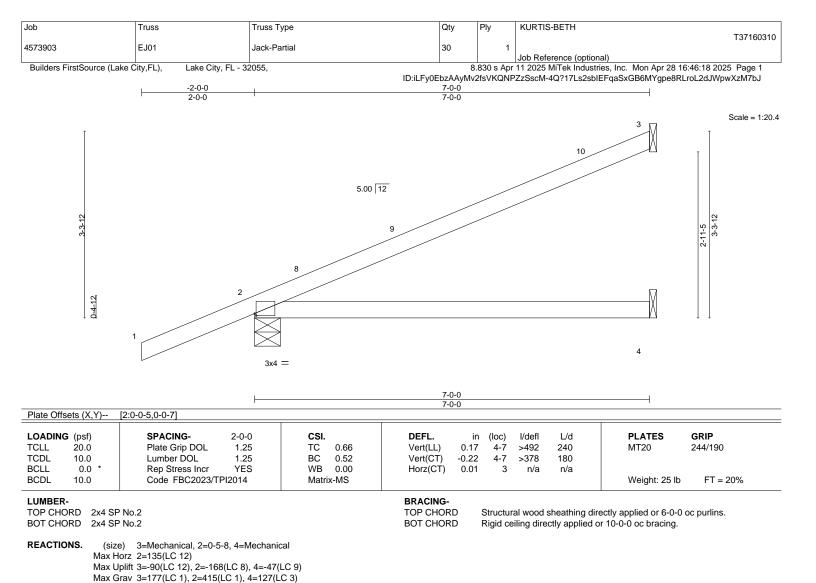
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April 29,2025



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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.
- * 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

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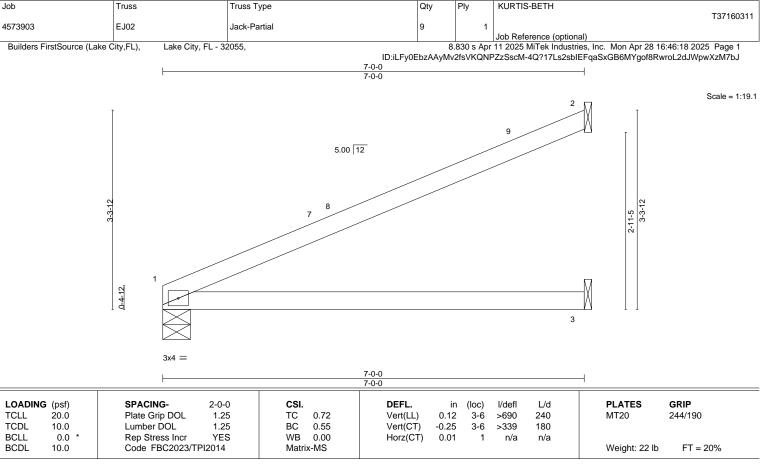
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LUMBER-

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

BRACING-

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

REACTIONS.

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
- 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.
- 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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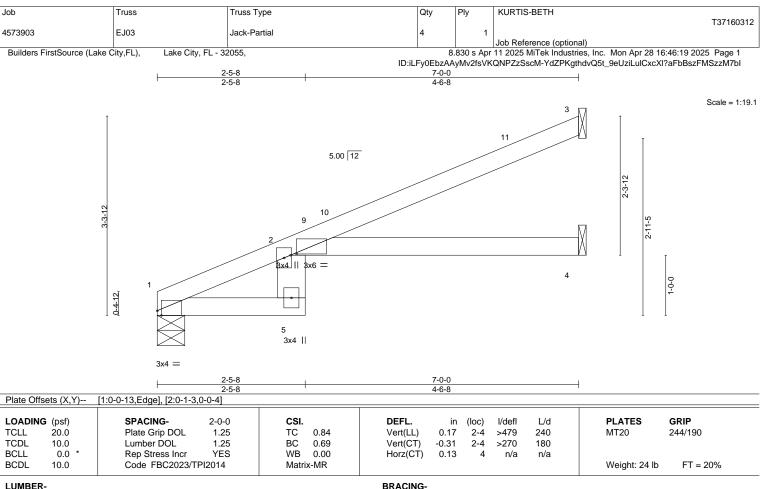
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BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2 *Except*

2-5: 2x6 SP No.2

(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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

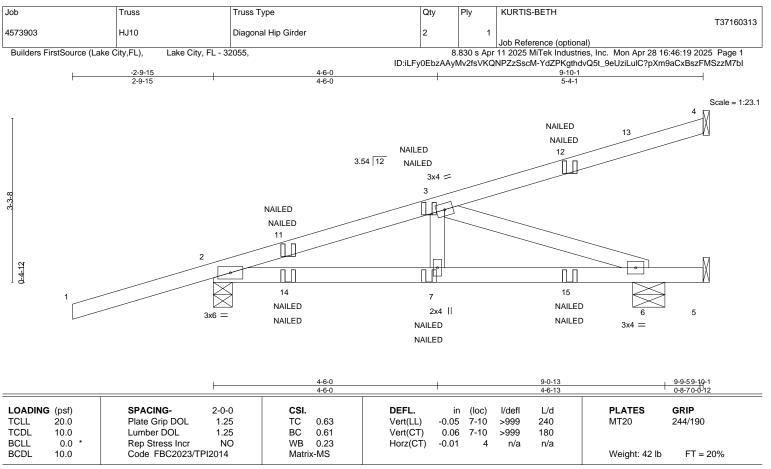
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April 29,2025



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BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3

REACTIONS. All bearings Mechanical except (jt=length) 2=0-4-9, 6=0-7-12.

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,
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

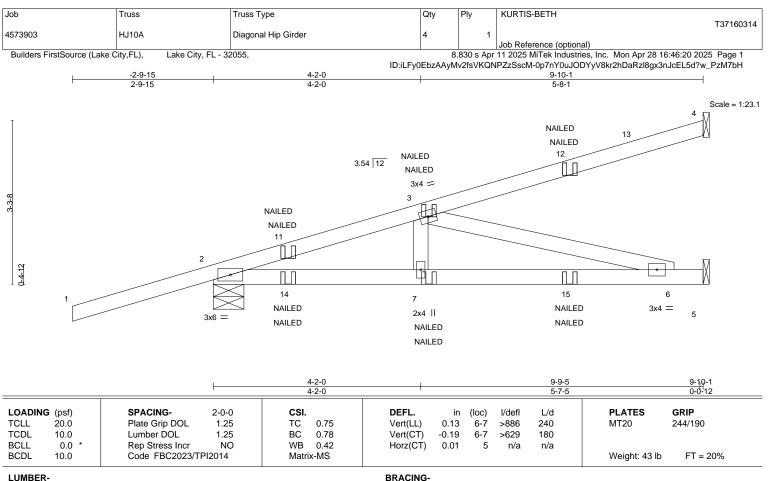
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April 29,2025



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BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.3

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
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- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 8-4-10 oc bracing.

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

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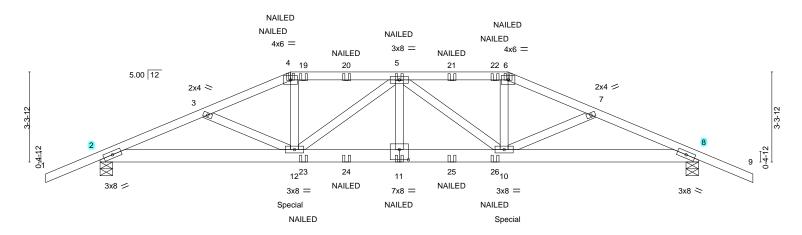


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Job Truss Truss Type Qty KURTIS-BETH T37160315 4573903 T01 Hip Girder Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:21 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-U?g9IMux9Wgp6HI1cOkpzAIMZLQi24oUKHkTXrzM7bG 15-0-0 18-0-8 22-0-0 2-0-0 3-11-8 3-0-8 4-0-0 4-0-0 3-0-8 3-11-8 2-0-0

Scale = 1:42.4



	L	7-0-0			11-0-0	15	-0-0				22-0-0	
	ı	7-0-0		ı	4-0-0	4-	-0-0	- 1			7-0-0	ı
Plate Offs	sets (X,Y)	[11:0-4-0,0-4-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	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/TF	PI2014	Matri	x-MS						Weight: 127 I	b FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

> (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

2-12=-1599/3403, 11-12=-1758/3781, 10-11=-1758/3781, 8-10=-1537/3403 BOT CHORD WEBS 4-12=-410/890, 5-12=-687/352, 5-11=-134/301, 5-10=-687/351, 6-10=-409/890

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=785, 8=785
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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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Structural wood sheathing directly applied or 2-9-12 oc purlins.

Rigid ceiling directly applied or 5-6-12 oc bracing.

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

April 29,2025

Continued on page 2





Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH
4573903	T01	Hip Girder	1	1	T37160315
4573903	101	nip Girder	'	'	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:21 2025 Page 2 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-U?g9IMux9Wgp6HI1cOkpzAIMZLQj24oUKHkTXrzM7bG

LOAD CASE(S) Standard

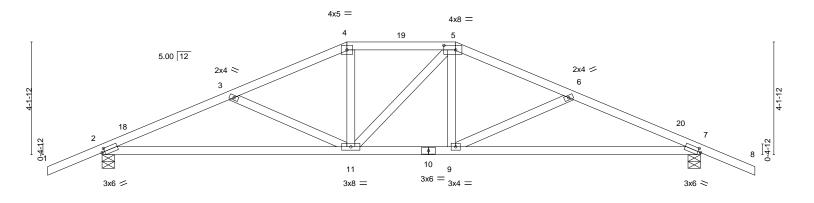
Concentrated Loads (lb)

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) 26=-63



Job Truss Truss Type Qty KURTIS-BETH T37160316 4573903 T02 Hip Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:21 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-U?g9lMux9Wgp6HI1cOkpzAIPdLQk27VUKHkTXrzM7bG 13-0-0 22-0-0 24-0-0 2-0-0 4-10-3 4-1-13 4-0-0 4-1-13 4-10-3 2-0-0

Scale = 1:42.4



		9-0-	-0		1	13-0-0	1			22-0-0		
	1	9-0-	-0		1	4-0-0	1			9-0-0		1
Plate Offs	sets (X,Y)	[2:0-1-3,0-1-8], [5:0-5-4,0-2	!-0], [7:0-1-3,0)-1-8]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.33	9-17	>809	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI:	2014	Matrix	-MS						Weight: 106 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

WEBS

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

2x4 SP No.3

(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.

2-3=-1701/421, 3-4=-1365/304, 4-5=-1219/308, 5-6=-1364/304, 6-7=-1701/422 TOP CHORD

BOT CHORD 2-11=-387/1530, 9-11=-168/1219, 7-9=-311/1530 3-11=-358/193, 4-11=-40/325, 5-9=-42/325, 6-9=-358/193 WFBS

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.
- * 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.

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Structural wood sheathing directly applied or 4-5-1 oc purlins.

Rigid ceiling directly applied or 9-5-0 oc bracing.

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

April 29,2025

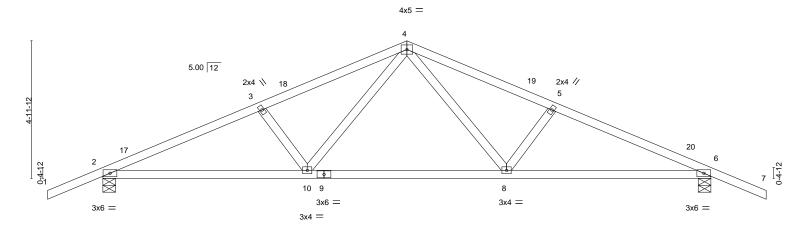


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty KURTIS-BETH T37160317 4573903 T03 Common 8 Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:22 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-zCEXzivZwqogkRtDA6G2WOqXrliGnYYeYxU13lzM7bF 22-0-0 16-2-15 2-0-0 5-2-15 2-0-0

Scale = 1:41.7



	7-4-12	14-7-4	22-0-0
	7-4-12	7-2-9	7-4-12
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. DEFL. in TC 0.52 Vert(LL) -0.21 BC 0.97 Vert(CT) -0.44 WB 0.31 Horz(CT) 0.06 Matrix-MS	(loc) I/defl L/d PLATES GRIP 8-10 >999 240 MT20 244/190 8-10 >597 180

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

WEBS

2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD**

6-9: 2x4 SP No.1 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

WFBS 4-8=-236/808, 5-8=-303/190, 4-10=-234/800, 3-10=-303/190

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 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-7=-60, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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Structural wood sheathing directly applied or 3-7-0 oc purlins.

Rigid ceiling directly applied or 8-0-4 oc bracing.

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

April 29,2025

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



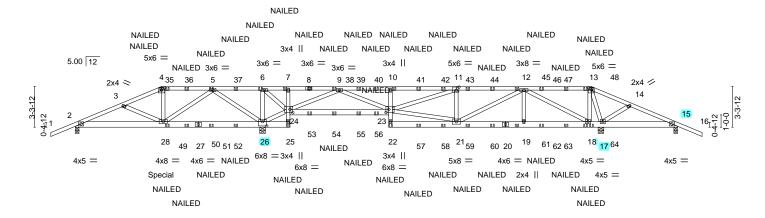
Job Truss Truss Type Qty Ply KURTIS-BETH T37160318 4573903 T₀₄ Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:26 2025 Page 1

> 31-0-0 36-6-0 42-0-0 45-0-8 49-0-0

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-rzU2o4y4_3I6D3B?PxK_gE?CGM99jGnDTZSEC3zM7bB 17-5-8 2-2-12 51-0-0 3-11-8 3-0-8 4-2-4 4-0-8 4-0-4 4-0-4 5-6-0 5-6-0 5-6-0 3-0-8 3-11-8

Scale = 1:93.8



⊢	7-0-0	15-2-12	17-5-8	25-6-0	31-0-0		36-6		42-0-0	42-9-4	49-0-0	-
	7-0-0	8-2-12	2-2-12	8-0-8	5-6-0		5-6		5-6-0	0-9-4	6-2-12	<u>'</u>
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], [2	3:0-2-12,0-3-0], [[24:0-2-12,0-3-4], [26:0	-4-0,0-4	-4]				
LOADING (psf)	SPACIN	I G- 2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PI	LATES	GRIP
TCLL 20.0	Plate Gr	ip DOL 1.25	TC	0.62	Vert(LL)	-0.11	23	>999	240	M	T20	244/190
TCDL 10.0	Lumber	DOL 1.25	ВС	0.59	Vert(CT)	-0.23	23-24	>999	180			
BCLL 0.0 *	Rep Stre	ess Incr NO	WB	0.61	Horz(CT)	0.03	17	n/a	n/a			
BCDL 10.0	Code F	BC2023/TPI2014	Mati	rix-MS	` '					l w	eight: 603 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP No.2 *Except* **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc bracing. 7-25,10-22: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8 except (jt=length) 26=0-5-8, 17=0-5-8.

Max Horz 2=-63(LC 9) (lb) -

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)

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 Max Grav 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.

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

April 29,2025

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	
4570000	T0.4	LI: 0: 1				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 16:46:27 2025 Page 2 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-J92Q0PzilMQzrCmByfrDDRYN0mVOSj1NiCBnkVzM7bA

- 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 guidlines.
- 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) 49=-112(F) 40=-112(F) 41=-126(F) 42=-126(F) 43=-126(F) 45=-126(F) 45=-126(F)

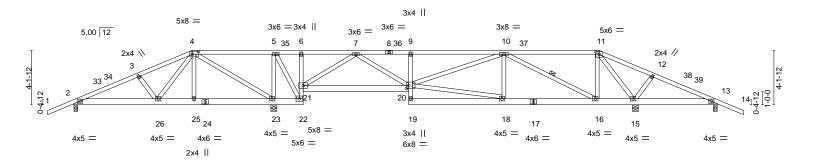


Job Truss Truss Type Qty KURTIS-BETH T37160319 4573903 T05 Hip Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:27 2025 Page 1

ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-J92Q0PzilMQzrCmByfrDDRYN5mSJSdDNiCBnkVzM7bA 44-0-8 32-9-0 40-0-0 49-0-0 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



6-2-		15-2-12	17-5-8	25-6-0			2-9-0			-0-0	42-9-4	49-0-0	
6-2-	12 2-9-4	6-2-12	2-2-12	8-0-8	'	7	'-3-0	'	7-	3-0	2-9-4	6-2-12	
Plate Offsets (X,Y)	[4:0-5-12,0-2-8], [11	:0-3-0,0-2-4], [20:	0-2-4,0-2-12]										
LOADING (psf)	SPACING-	2-0-0	CS	l.	- 1	DEFL.	in	(loc)	I/defl	L/d	PL	ATES	GRIP
TCLL 20.0	Plate Grip DC	L 1.25	TC	0.61	,	Vert(LL)	-0.08	20	>999	240	MT	20	244/190
TCDL 10.0	Lumber DOL	1.25	BC	0.79	,	Vert(CT)	-0.15 1	18-19	>999	180			
BCLL 0.0 *	Rep Stress In	cr YES	WE	0.98		Horz(CT)	0.02	15	n/a	n/a			
BCDL 10.0	Code FBC20	23/TPI2014	Ma	trix-MS		, ,					We	ight: 308 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 4-2-11 oc purlins. TOP CHORD **BOT CHORD** 2x6 SP No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 4-2-15 oc bracing.

6-22,9-19: 2x4 SP No.3 **WEBS** 10-16 1 Row at midpt

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8 except (jt=length) 23=0-5-8, 15=0-5-8.

Max Horz 2=-77(LC 13) (lb) -

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

WFBS 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

- 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 40-0-0, Zone2 40-0-0 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.
- * 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.

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

April 29,2025



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



Job Truss Truss Type Qty KURTIS-BETH T37160320 4573903 T06 Hip Job Reference (optional) Builders FirstSource (Lake City,FL) Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:28 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-nLbpDI_KWgYqSMLNWMMSmf4YwAr1B8sWxsxLGyzM7b9

31-9-0

6-3-0

38-0-0

6-3-0

42-9-4

4-9-4

Structural wood sheathing directly applied or 4-11-9 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

49-0-0

6-2-12

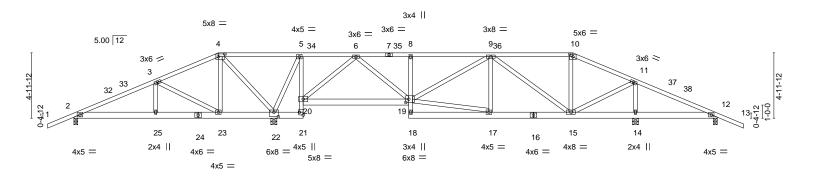
25-6-0

4-0-4

4-0-4

Scale = 1:87.7

2-0-0



	6-2-1			17-5-8	25-6-0	31-9	-	38-0-0		42-9-4	49-0-0	
	6-2-1	2 4-9-4	4-2-12	2-2-12 '	8-0-8	6-3	-0	6-3-0	1	4-9-4	6-2-12	ı .
Plate Offse	ets (X,Y)	[4:0-5-12,0-2-8], [10:0-3-0	0,0-2-4], [19:0	2-12,0-3-0]	[21:Edge,0-3-8]], [22:0-4-0,0-4-0)]					
LOADING	(psf)	SPACING-	2-0-0	CSI		DEFL.	in (loc	:) I/defl	L/d	F	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.06 19-2	>999	240	l N	/IT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.13 19-2	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.01 1	4 n/a	n/a			
BCDL	10.0	Code FBC2023/TI	PI2014	Mat	rix-MS					V	Veight: 311 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD TOP CHORD

2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

6-2-12

4-9-4

6-5-8

5-21,8-18: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS. All bearings 0-3-8 except (jt=length) 22=0-5-8, 14=0-5-8.

Max Horz 2=91(LC 16) (lb) -

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

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

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 WFBS 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-

BOT CHORD

- 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.
- * 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.

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

April 29,2025



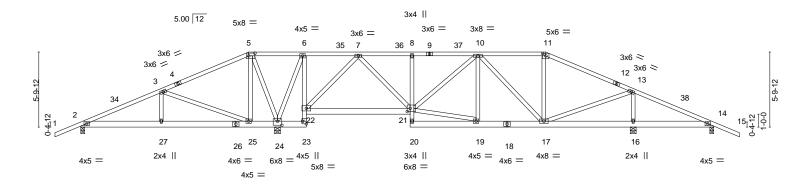
M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty KURTIS-BETH T37160321 4573903 T07 Hip Job Reference (optional) Builders FirstSource (Lake City,FL) Lake City, FL - 32055 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:29 2025 Page 1

ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-GY9BR5?yG_gg4WwZ44uhlsdkSZCCwaMg9WgupOzM7b8 49-0-0 2-0-0 25-6-0 30-9-0 51-0-0 6-2-12 6-9-4 4-5-8 4-0-4 4-0-4 5-3-0 5-3-0 6-9-4 6-2-12 2-0-0

Scale = 1:89.2



	1 6-2	2-12 ₁ 13-0-0	₁ 15-2-12	17-5-8	25-6-0	1 30-9	-0 ,	36-0-0	42-9-4	1 ,	49-0-0	1
	6-2	2-12 6-9-4	2-2-12	2-2-12	8-0-8	5-3-	·0	5-3-0	6-9-4		6-2-12	ı
Plate Offsets	(X,Y) [[5:0-5-12,0-2-8], [11:0-3-0),0-2-4], [21:0-2	2-12,0-3-0], [[23:Edge,0-3-8], [2	4:0-4-0,0-3-1	2]					
		· · · · · · · · · · · · · · · · · · ·										
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLA	TES	GRIP
TCLL 20	o.ó	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.05 21	-22 >999	240	MT2	0	244/190
TCDL 10	0.0	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	0.0	Code FBC2023/TF	PI2014	Matri	x-MS					Weig	ht: 323 lb	FT = 20%
											<u></u>	

LUMBER-**BRACING-**

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-6-4 oc purlins. 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 (jt=length) 24=0-5-8, 16=0-5-8.

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

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

FORCES. (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

2-27=-339/362, 25-27=-339/362, 24-25=-434/154, 23-24=-298/125, 6-22=-157/773, **BOT CHORD**

21-22=-106/513, 8-21=-275/137, 17-19=-219/1017

WFBS 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.
- * 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

April 29,2025



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



Job Truss Truss Type Qty Ply KURTIS-BETH T37160322 4573903 T08 Hip Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:30 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-kkjZeR?a1HoXigUmenPwr4Atyzabf4kpOAQSLqzM7b7

6-4-0

34-0-0

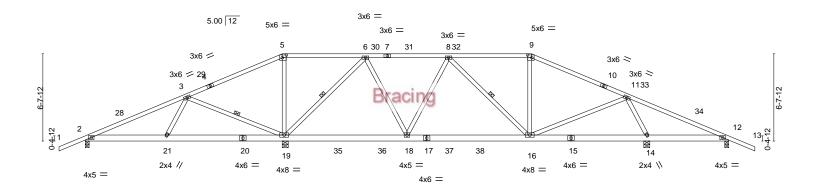
6-4-0

7-2-15

Scale = 1:87.7

2-0-0

7-9-1



	6-2-12	15	-0-0 15	5-2 ₋ 12	24-6-0	1	34-0-0	1	42-9-4	49-0)-0
	6-2-12	8-	9-4 0)-2-12	9-3-4	1	9-6-0	- 1	8-9-4	6-2-	12
Plate Offsets (X,Y) [5:0-3-12	2,0-2-8], [9:0-3-12	,0-2-8]								
LOADING (ps	sf) SI	PACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	.0 PI	ate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.08 16-18	>999	240	MT20	244/190
CDL 10	.0 Lu	ımber DOL	1.25	ВС	0.43	Vert(CT)	-0.14 16-18	>999	180		
BCLL 0	.0 * Re	ep Stress Incr	YES	WB	0.61	Horz(CT)	0.02 14	n/a	n/a		
BCDL 10	.0 Co	ode FBC2023/TF	PI2014	Matri	x-MS	, ,				Weight: 293 lb	FT = 20%

LUMBER-BRACING-

7-2-15

6-4-0

2x4 SP No.2 Structural wood sheathing directly applied or 5-0-14 oc purlins. TOP CHORD TOP CHORD **BOT CHORD** 2x6 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3 **WEBS** 3-19, 6-19, 8-16 1 Row at midpt

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

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 3-21=-193/379, 3-19=-816/437, 5-19=-622/235, 6-19=-1479/420, 6-18=-136/812, **WEBS**

8-18=-429/197, 11-16=-61/685, 11-14=-1327/451

2-0-0

7-9-1

- 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 40-11-3, 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
- 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.
- * 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 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.

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

April 29,2025



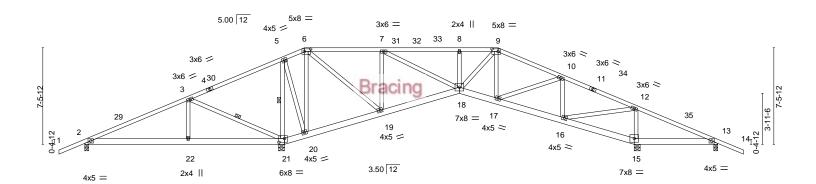
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty Ply KURTIS-BETH T37160323 4573903 T09 HIP 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 16:46:31 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-CwHxsn0CobwOJq3yBVw9NHi1tNxEOSYydq9?tGzM7b6

Scale = 1:89.2

6-5-8



		0-0-0	13-2-12	ιστώρ-ο Ι	23-0-0	29-0-0	32-0-0	J	37-0-0		42-0-0	42T\$P-4	49-0-0	1
		8-0-0	7-2-12	0-2-12	6-0-0	6-0-0	3-0-0) '	5-0-0		5-6-8	0-2 ⁻¹ 12	6-2-12	1
				1-6-8										
Plate Offse	ets (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.		DEFL.	in	(loc)	I/defl	L/d		PLATE	s	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.07	18	>999	240		MT20		244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.14	18	>999	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.07	15	n/a	n/a				
BCDL	10.0	Code FBC2023	/TPI2014	Mati	ix-MS							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** 3-21, 5-21 1 Row at midpt

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

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)

17-0-0

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; 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 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.
- * 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.

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

April 29,2025



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



Job Truss Truss Type Qty KURTIS-BETH T37160324 4573903 T10 HIP 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 16:46:31 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-CwHxsn0CobwOJq3yBVw9NHi1uNx8OYhydq9?tGzM7b6

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30-0-0

5-6-0

36-0-0

6-0-0

42-6-8

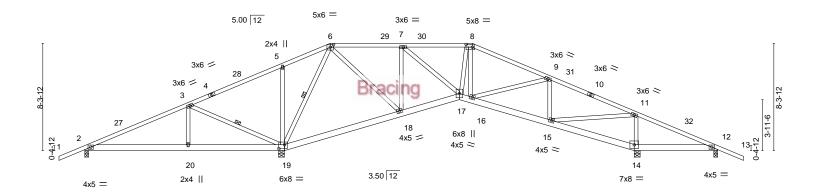
6-6-8

Scale = 1:89.2

2-0-0

49-0-0

6-5-8



		8-0-0	15-2-12	15 _⊺ 5-8	24-6-0	1	29-0-0	30-0-0	36-0-0)	42-6-	8 42 ₁ 9-4	49-0-0	
	1	8-0-0	7-2-12	0-2-12	9-0-8	1	4-6-0	1-0-0	6-0-0)	6-6-	3 0-2-12	6-2-12	ı
Plate Offsets	(X,Y) [6:0-3-0,0-2-4], [8:0-	-5-12,0-2-8], [19:	0-5-4,0-3-8]										
LOADING (p:	sf)	SPACING-	2-0-0	CSI			DEFL.	in	(loc)	l/defl	L/d	PLATE	S	GRIP
TCLL 20	0.0	Plate Grip D0	OL 1.25	TC	0.75		Vert(LL)	-0.06	17	>999	240	MT20		244/190
TCDL 10	0.0	Lumber DOL	1.25	ВС	0.28		Vert(CT)	-0.12	18-19	>999	180			
BCLL 0	0.0 *	Rep Stress Ir	ncr YES	WB	0.57		Horz(CT)	0.06	14	n/a	n/a			
BCDL 10	0.0	Code FBC20	023/TPI2014	Mat	rix-MS		` '					Weight	: 304 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.2 Structural wood sheathing directly applied or 5-2-0 oc purlins. TOP CHORD TOP CHORD BOT CHORD 2x6 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3 **WEBS** 3-19, 6-19 1 Row at midpt

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

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)

19-0-0

3-6-8

7-5-8

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=-107/709

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

2-0-0

8-0-0

- 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.
- * 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.

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

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



Job Truss Truss Type Qty KURTIS-BETH T37160325 HIP 4573903 T11 2 Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:32 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-g7rJ371qZv2Fx_e8lCROwVFCsnHB7xu6rUvYPjzM7b5 49-0-0 2-0-0 35-0-0 42-6-8

7-0-0

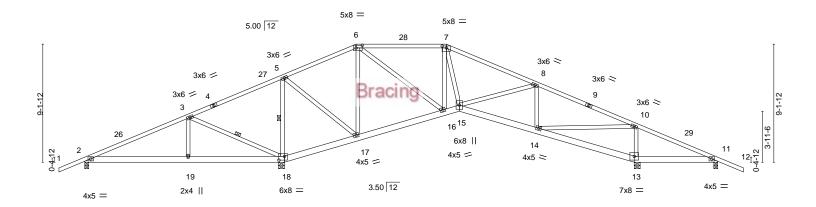
7-0-0

7-6-8

Scale = 1:89.2

2-0-0

6-5-8



		8-0-0	15-2-12	15 ₁ 5-8	21-0-0	1	28-0-0	29-0 ₁ 0	35-0-0	1	42-6-8	42 ₁ 9-4	49-0-0	
	1	8-0-0	7-2-12	0-2-12	5-6-8	ı	7-0-0	1-0-0	6-0-0	1	7-6-8	0-2-12	6-2-12	
Plate Offsets	s (X,Y)	[6:0-5-12,0-2-8], [7:0-4-0,0-1-13], [1	8:0-5-4,0-3	-8]									
LOADING (psf)	SPACING-	2-0-0		CSI.		DEFL.	i	n (loc)	I/defI	L/d	PLATE	s	GRIP
TCLL 2	0.0	Plate Grip	DOL 1.25		TC 0.74	1	Vert(LL)	-0.0	3 1 4 -15	>999	240	MT20		244/190
TCDL 1	0.0	Lumber DO	OL 1.25		BC 0.29	9	Vert(CT) -0.13	3 14-15	>999	180			
BCLL	0.0 *	Rep Stress	Incr YES		WB 0.83	3	Horz(C	0.0	7 13	n/a	n/a			
BCDL 1	0.0	Code FBC	2023/TPI2014		Matrix-MS		,	•				Weight:	302 lb	FT = 20%

LUMBER-BRACING-

7-5-8

5-6-8

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

2x4 SP No.3

WEBS

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-5-2 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 15-16,14-15. 1 Row at midpt

REACTIONS. All bearings 0-3-8 except (jt=length) 18=0-5-8, 13=0-5-8.

(lb) -Max Horz 2=160(LC 16)

8-0-0

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 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 $2\text{-}3\text{=-}216/377,\ 3\text{-}5\text{=-}174/1010,\ 6\text{-}7\text{=-}720/239,\ 7\text{-}8\text{=-}998/230,\ 8\text{-}10\text{=-}1109/312,}$

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-

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 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
- 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.
- * 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 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.

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

April 29,2025



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



Job Truss Truss Type Qty KURTIS-BETH T37160326 HIP 4573903 T12 2 Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:33 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-8JPiGT2TKCA6Z7DLJvydTioMBBd7sP0F48e6y9zM7b4

26-0-0

3-0-0

7-6-8

29-0-0

3-0-0

35-9-4

6-9-4

42-6-8

6-9-4

Structural wood sheathing directly applied or 5-5-2 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 16-17,15-16.

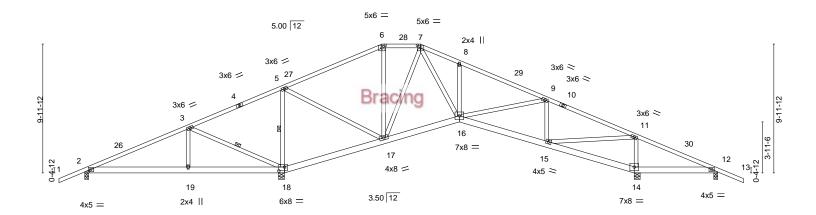
1 Row at midpt

Scale = 1:89.2

2-0-0

49-0-0

6-5-8



		6-0-0	13-2-12	10-γ-0 Ζι	3-0-0	29-0-0	33-9-4	<u> </u>	42-0-0	4279-4	49-0-0	
	ı	8-0-0	7-2-12	0-2-12 7	-6-8	6-0-0	6-9-4		6-9-4	0-2-12	6-2-12	
Plate Offsets	(X,Y)	[2:0-2-4,0-2-0], [6:0-3-0	,0-2-4], [7:0-3	3-0,0-2-4], [18:0	-5-4,0-3-8]							
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATE	S	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.06 15-16	>999	240	MT20		244/190
TCDL 10	0.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.13 15-16	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06 14	n/a	n/a			
BCDL 10	0.0	Code FBC2023/	TPI2014	Matri	ix-MS					Weight	: 305 lb	FT = 20%

TOP CHORD

LUMBER-BRACING-

7-5-8

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

2-0-0

8-0-0

WEBS 2x4 SP No.3

BOT CHORD

WEBS

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

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=-110/686

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.
- * 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

April 29,2025



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



Job Truss Truss Type Qty KURTIS-BETH T37160327 4573903 T13 **ROOF SPECIAL** Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:33 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-8JPiGT2TKCA6Z7DLJvydTioNdBd8sNZF48e6y9zM7b4 29-0-0 $\frac{-2-0-0}{2-0-0}$ 24-6-0 36-0-0 42-6-8

4-6-0

7-0-0

6-6-8

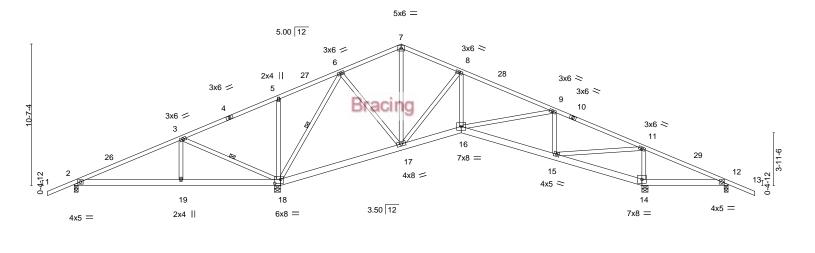
4-6-4

Scale = 1:86.3

2-0-0

6-5-8

49-0-0



F	8-0-0		7-2-12	0-2-12	9-0-8	4-6-0	7-0-0	6-6-	-8 0-2-12 6-2	2-12
Plate Offsets	s (X,Y) [18:0-5-	-4,0-3-8]								
TCDL 1 BCLL	20.0 F 0.0 L 0.0 * F	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/	2-0-0 1.25 1.25 YES /TPI2014		CSI. TC 0.74 BC 0.31 WB 0.86 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.06 15-16 >999 -0.13 15-16 >999 0.07 14 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 307 lb	GRIP 244/190 o FT = 20%

LUMBER-

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

WEBS

29-0-0

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-2-9 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

42-6-8

10-0-0 oc bracing: 16-17,15-16. 1 Row at midpt

REACTIONS. All bearings 0-3-8 except (jt=length) 18=0-5-8, 14=0-5-8.

Max Horz 2=184(LC 16) (lb) -

8-0-0

8-0-0

Max Uplift All uplift 100 lb or less at joint(s) except 2=-233(LC 8), 18=-532(LC 12), 14=-389(LC 13),

15₇5-8 0-2-12

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,

7-5-8

4-6-4

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-

- 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 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 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

April 29,2025



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



Job Truss Truss Type Qty Ply KURTIS-BETH T37160328 4573903 T14 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL) Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:39 2025 Page 1

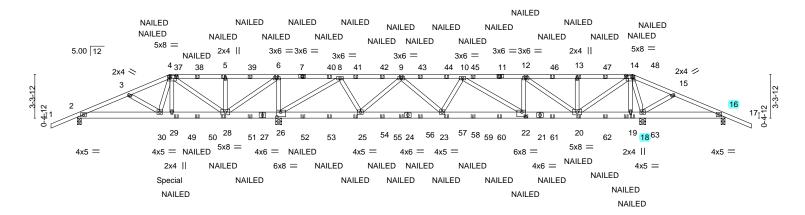
4-7-10

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

Scale = 1:87.2



L	6-2-	12 7 _Γ 0-ρ 11-2-4	15-2-12	21-4-15	27-7-1	33-9-4	37-9-12	42-0-0	42-9 _T 4	49-0-0
	6-2-	12 0-9-4 4-2-4	4-0-8	6-2-3	6-2-3	6-2-3	4-0-8	4-2-4	0-9-4	6-2-12
Plate Offsets	s (X,Y)	[4:0-5-12,0-2-8], [14:0-5-1	2,0-2-8], [22:0	-3-8,0-4-4], [26:0-3-8	3,0-4-4]					
LOADING (p	psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d		PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	0.10 22-23	>999 240		MT20	244/190
TCDL 1	0.0	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 1	0.0	Code FBC2023/TF	PI2014	Matrix-MS					Weight: 59	96 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

(lb) -

REACTIONS.

3-11-8

3-0-8

4-2-4

4-0-8

4-7-10

All bearings 0-3-8 except (jt=length) 26=0-5-8, 18=0-5-8.

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

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.
- * 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 Continute 66 of 7636 b 2 plift at joint 18 and 793 lb uplift at joint 16.

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 Chesterfield, MO 63017

April 29,2025

MARNING - 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



Job	Truss	Truss Type	Qty	Ply	KURTIS-BETH	
4570000	T	LI: 0: 1				T37160328
4573903	T14	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 16:46:39 2025 Page 2 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-zTmzXW6Dw2xGH2hUfA31iz1Qdbf5G9B8S45Q9pzM7b_

10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

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, 4-14=-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) 49=-117(B) 40=-117(B) 41=-117(B) 42=-117(B) 43=-117(B) 44=-117(B) 45=-117(B) 45=-117(B) 45=-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) 55=-63(B) 57=-63(B) 58=-63(B) 59=-63(B) 60=-63(B) 61=-63(B) 62=-63(B) 63=-63(B) 61=-63(B) 62=-63(B) 61=-63(B) 61=-63



Job Truss Truss Type Qty Ply KURTIS-BETH T37160329 4573903 T15 Hip 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 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-RfKLks7shM37uCFhDuaGFBaa5??k_caHhkr_hFzM7az $\frac{-2-0-0}{2-0-0}$ 33-9-4 40-0-0 44-0-8 49-0-0

6-2-3

6-2-3

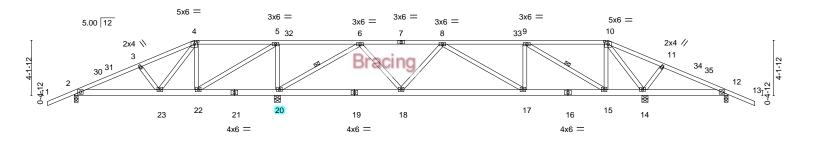
6-2-12

4-0-8

4-11-8

Scale = 1:86.3

2-0-0



	6-2-	·12	15-2-12		24-6-0	;	33-9-4	1	40-0-0	42-9-4	49-0-0			
	6-2-	12 2-9-4	6-2-12		9-3-4		9-3-4	1	6-2-12	2-9-4	6-2-12			
Plate Offs	late Offsets (X,Y) [4:0-3-0,0-2-4], [10:0-3-0,0-2-4]													
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.06 17-18	>999	240	MT20	244/190			
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.15 17-18	>999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.02 14	n/a	n/a					
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS					Weight:	290 lb FT = 20%	%		

TOP CHORD

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 5-1-1 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 6-20, 9-15 1 Row at midpt

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 14=0-5-8.

Max Horz 2=-77(LC 17) (lb) -

4-11-8

4-0-8

6-2-12

6-2-3

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.

2-3=-408/368, 3-4=-255/349, 5-6=-260/969, 6-8=-964/285, 8-9=-1172/398, TOP CHORD

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

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-

WEBS

- 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 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x5 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=239, 20=733, 14=453.

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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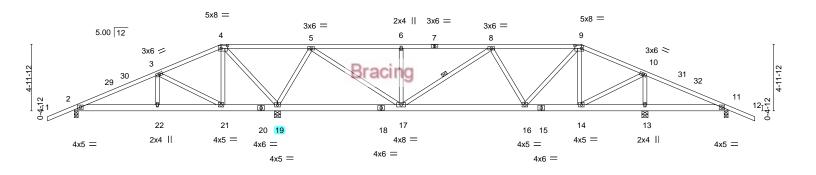
April 29,2025

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



Job Truss Truss Type Qty KURTIS-BETH T37160330 4573903 T16 Hip Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:40 2025 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-RfKLks7shM37uCFhDuaGFBaZ7??m_aKHhkr_hFzM7az 42-9-4 49-0-0 31-3-0 38-0-0 6-2-12 4-9-4 6-9-0 6-9-0 6-9-0 6-9-0 4-9-4 6-2-12 2-0-0

Scale = 1:86.3



6-2-		15-2-12	24-6-0	33-9-4	38-0-0	42-9-4 49-0	-
6-2-	12 4-9-4	4-2-12	9-3-4	9-3-4	4-2-12	4-9-4 6-2-	12
Plate Offsets (X,Y)	[4:0-5-12,0-2-8], [9:0-5-12	2,0-2-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL) -0.05 16-17	>999 240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.38	Vert(CT) -0.13 16-17	>999 180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT) 0.01 13	n/a n/a		
BCDL 10.0	Code FBC2023/T	PI2014	Matrix-MS			Weight: 293 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

(lb) -

2x4 SP No.3 REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-5-8, 13=0-5-8.

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

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-

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 17-9-0, 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
- 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.
- * 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 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.

Structural wood sheathing directly applied or 5-1-10 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 16-17,14-16.

1 Row at midpt

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

April 29,2025



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



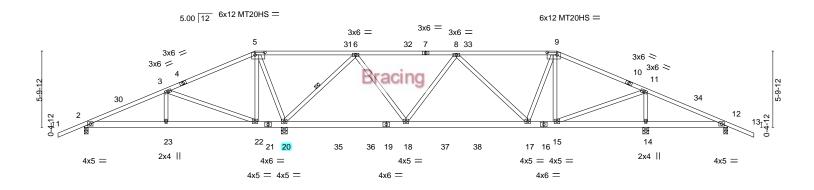
Job Truss Truss Type Qty KURTIS-BETH T37160331 4573903 T17 Hip Job Reference (optional) Builders FirstSource (Lake City,FL) Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:41 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-vrujyC8USqB_WMqtnb5VnO7jYPKCj?bRwOaXDhzM7ay 49-0-0 36-0-0 42-9-4

7-8-0

Scale = 1:87.7

2-0-0

6-2-12



		6-2-12	13-0-0	₁ 15-2-12		24-6-0	1	33-9-4	₁ 36-0-	0 42-9	9-4	49-0-0
	1	6-2-12	6-9-4	2-2-12		9-3-4		9-3-4	2-2-1	2 6-9)-4	6-2-12
Plate Offset	ts (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 DO	OL [*]	.25	BC	0.43	Vert(CT)	-0.15 17-18	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress	s Incr	'ES	WB	0.86	Horz(CT)	0.01 14	n/a	n/a		
BCDL	10.0	Code FBC	2023/TPI20	14	Matri	k-MS					Weight: 297	Ib FT = 20%

LUMBER-BRACING-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-10-3 oc purlins.

6-9-4

Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 6-20 1 Row at midpt

7-8-0

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 14=0-5-8.

(lb) -Max Horz 2=-104(LC 13)

6-2-12

6-9-4

7-8-0

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

2-23=-200/346, 22-23=-200/346, 20-22=-521/253, 18-20=0/370, 17-18=-185/1068, **BOT CHORD**

WFBS 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; 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) 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.
- * 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.

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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April 29,2025



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



Job Truss Truss Type Qty Ply KURTIS-BETH T37160332 4573903 T18 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:42 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-N2S59Y96DzJq8WP3LldkKcft3pirSS?a92K4l8zM7ax 2-0-0 29-9-15 34-0-0 36-0-0 42-9-4 49-0-0

6-9-15

4-2-1

2-0-0

6-9-4

Structural wood sheathing directly applied or 2-2-0 oc purlins.

3-20, 5-20

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-22,20-22,11-13.

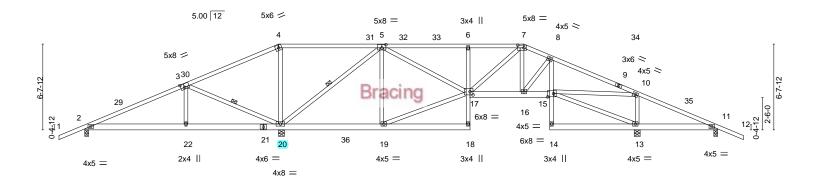
1 Row at midpt

8-0-0

Scale = 1:89.2

2-0-0

6-2-12



	-	7-10-0 7-10-0	15-0-0 7-2-0		3-0-0 '-9-4	29-9-15 6-9-15	-	34-0-0 4-2-1	36-0-0 2-0-0	42- 6-9		49-0-0 6-2-12	
Plate Off	sets (X,Y)	[3:0-3-8,0-3-4], [5:0-3-12						721	200		, ,	02 12	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATE	S	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.08	` 17	>999	240	MT20		244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.15	18-19	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.07	13	n/a	n/a			
BCDL	10.0	Code FBC2023/T	PI2014	Matr	ix-MS						Weigh	: 323 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

7-2-0

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

6-18,8-14: 2x4 SP No.3 2x4 SP No.3

7-10-0

WEBS

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 13=0-5-8.

Max Horz 2=-118(LC 13) (lb) -

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

WFBS 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.
- * 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.

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April 29,2025



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Job Truss Truss Type Qty KURTIS-BETH T37160333 4573903 V01 **GABLE** 2 Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

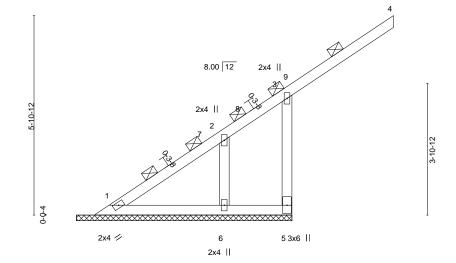
8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 28 16:46:42 2025 Page 1 ID:iLFy0EbzAAyMv2fsVKQNPZzSscM-N2S59Y96DzJq8WP3LldkKcfuTplkSfta92K4l8zM7ax

2-0-0 oc purlins (6-0-0 max.), except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

6-4-7 3-0-0

Scale = 1:34.1



LOADIN	\	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.80 0.09	Vert(LL) Vert(CT)	-0.18 -0.12	3-4 4	n/r n/r	120 120	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code FBC2023/TI	YES PI2014	WB Matri	0.03 x-P	Horz(CT)	0.00		n/a	n/a	Weight: 31 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-4-7, 5=6-4-7, 6=6-4-7

Max Horz 1=182(LC 12)

Max Uplift 5=-268(LC 9), 6=-68(LC 12)

Max Grav 1=133(LC 21), 5=404(LC 1), 6=143(LC 3)

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

TOP CHORD 1-2=-313/134, 2-3=-323/137, 3-5=-397/542

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 1-0-1 to 4-0-1, Zone1 4-0-1 to 9-4-7 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.
- * 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 268 lb uplift at joint 5 and 68 lb uplift at
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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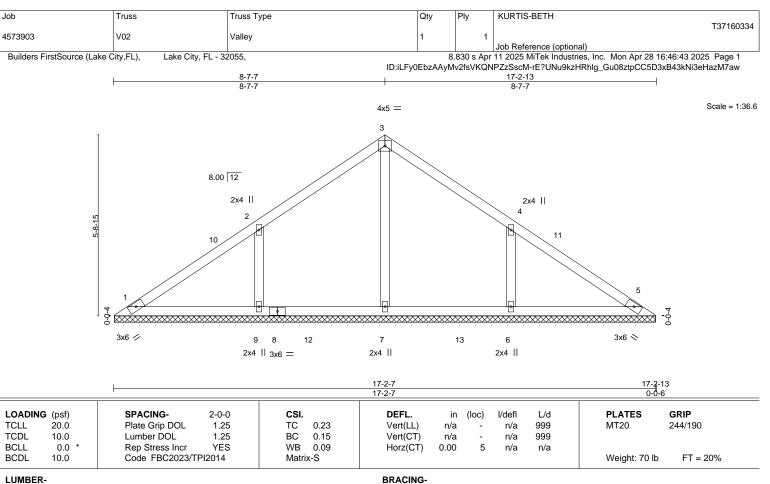
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BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

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

REACTIONS. All bearings 17-2-1.

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.

2-9=-314/224, 4-6=-314/224 WEBS

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.
- * 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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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

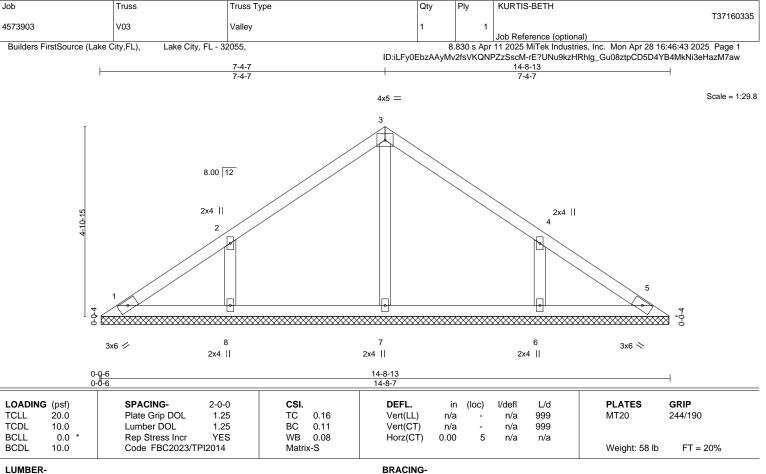
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BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 14-8-1.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-174(LC 12), 6=-174(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=259(LC 1), 8=346(LC 19), 6=345(LC 20)

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

2-8=-267/193, 4-6=-267/193 WEBS

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 3-4-7, Zone1 3-4-7 to 7-4-7, Zone2 7-4-7 to 11-4-7, Zone1 11-4-7 to 14-3-1 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.
- * 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, 5 except (jt=lb) 8=174, 6=174.

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Rigid ceiling directly applied or 10-0-0 oc bracing.

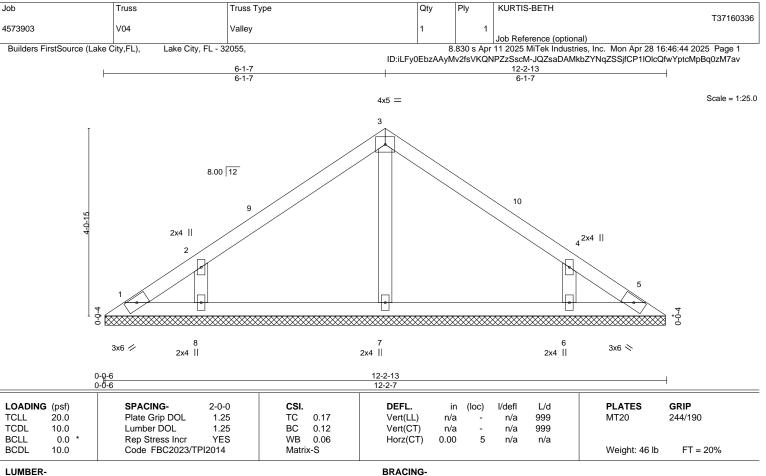
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BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 12-2-1.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-159(LC 12), 6=-159(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 1), 8=311(LC 19), 6=311(LC 20)

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

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-5-12 to 3-5-12, Zone1 3-5-12 to 6-1-7, Zone2 6-1-7 to 10-1-7, Zone1 10-1-7 to 11-9-1 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.
- * 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, 5, 7 except (it=lb) 8=159, 6=159,

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

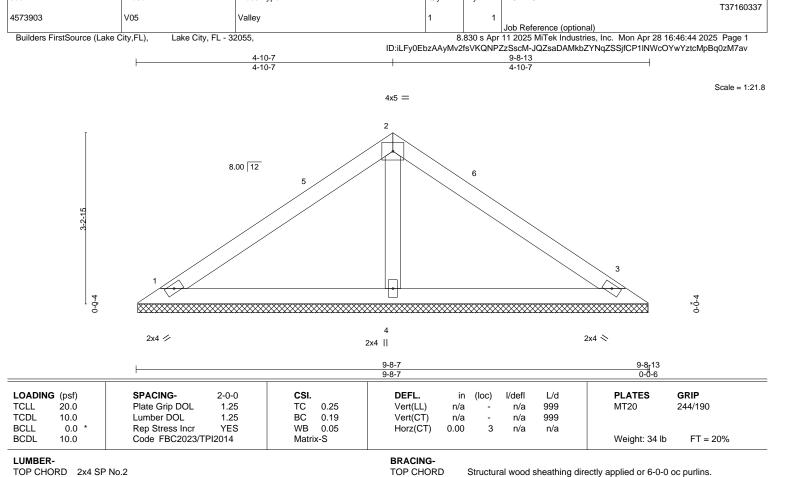
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BOT CHORD

Qty

KURTIS-BETH

Rigid ceiling directly applied or 10-0-0 oc bracing.

BOT CHORD

Job

2x4 SP No.2 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS.

1=9-8-1, 3=9-8-1, 4=9-8-1 (size)

Max Horz 1=72(LC 9)

Truss

Truss Type

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-

- 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 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
- 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.
- * 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.

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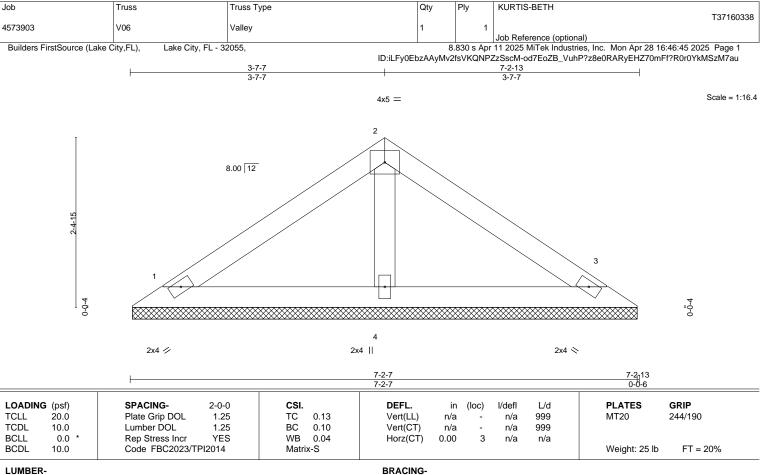
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BOT CHORD

LUMBER-

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

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

1=7-2-1, 3=7-2-1, 4=7-2-1 REACTIONS. (size)

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.
- * 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.

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

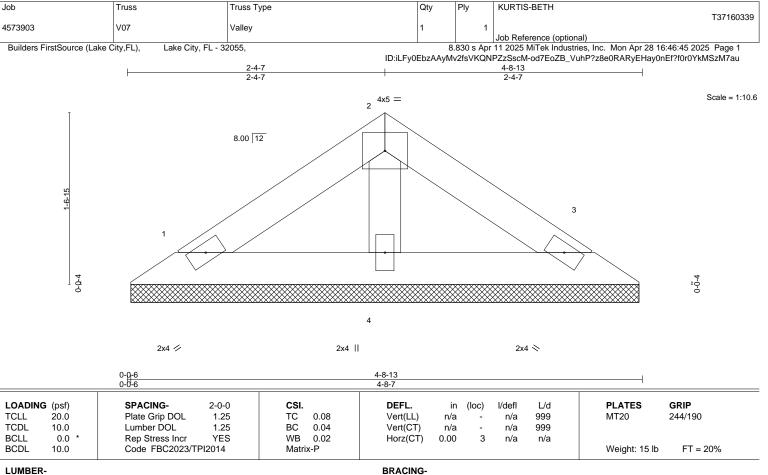
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BOT CHORD

TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

1=4-8-1, 3=4-8-1, 4=4-8-1 REACTIONS. (size)

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
- 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.
- * 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.

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Structural wood sheathing directly applied or 4-8-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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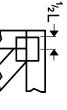


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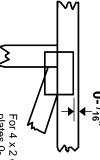


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ 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 × 4

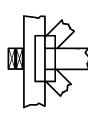
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

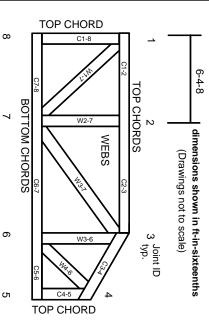
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.