



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

13

RE: 4085617 - VLADIMIR LUIS

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: YASMANIS REYES Project Name: Vladimir Luis Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD NW Kyle Court, N/A
City: Columbia Cty State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 21 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	T34218569	CJ01	6/20/24	15	T34218583	T08	6/20/24
2	T34218570	CJ03	6/20/24	16	T34218584	T09	6/20/24
3	T34218571	CJ05	6/20/24	17	T34218585	T10	6/20/24
4	T34218572	EJ01	6/20/24	18	T34218586	T11	6/20/24
5	T34218573	EJ02	6/20/24	19	T34218587	T12	6/20/24
6	T34218574	HJ08	6/20/24	20	T34218588	T13	6/20/24
7	T34218575	HJ10	6/20/24	21	T34218589	T14	6/20/24
8	T34218576	T01	6/20/24				
9	T34218577	T02	6/20/24				
10	T34218578	T03	6/20/24				
11	T34218579	T04	6/20/24				
12	T34218580	T05	6/20/24				
13	T34218581	T06	6/20/24				
14	T34218582	T07	6/20/24				

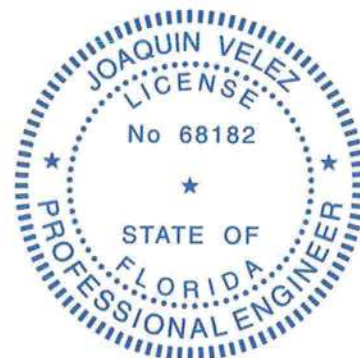


This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
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The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

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

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



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

June 20,2024

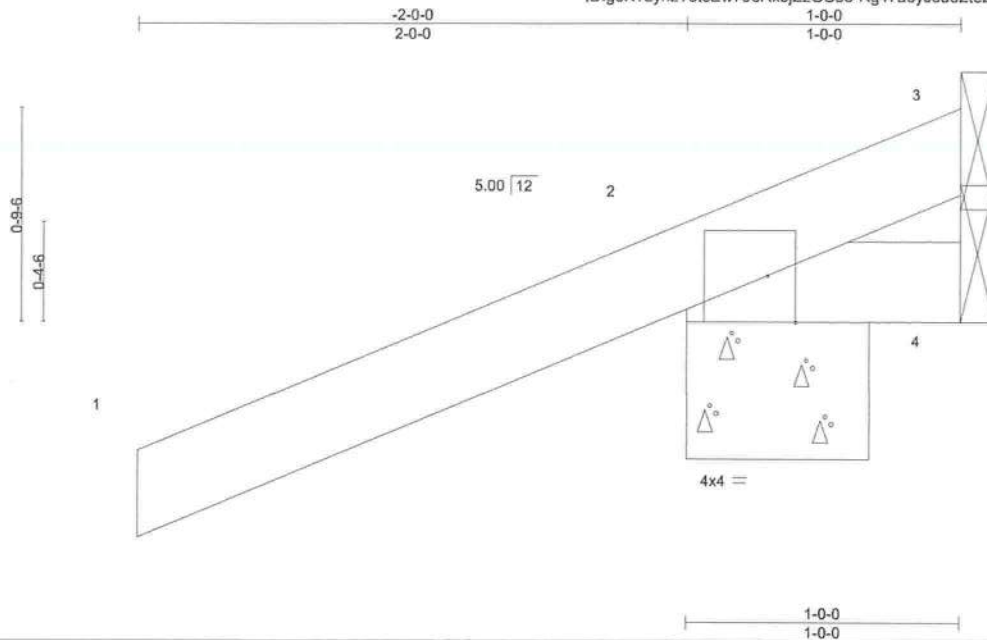
Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218569
4085617	CJ01	Jack-Open	12	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:39 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-Rg47a5yJou6ZteZLEoyloE58cocLZa3nBlK_wqz4lw6



Scale = 1:8.2

Plate Offsets (X,Y)-- [2:0-1-4,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.00	5	>999
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00	5	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP					
								PLATES	GRIP
								MT20	244/190
								Weight: 7 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=68(LC 8)
Max Uplift 3=-27(LC 1), 2=-238(LC 8), 4=-46(LC 1)
Max Grav 3=41(LC 8), 2=254(LC 1), 4=65(LC 8)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=238.

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

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Date:

June 20,2024



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

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

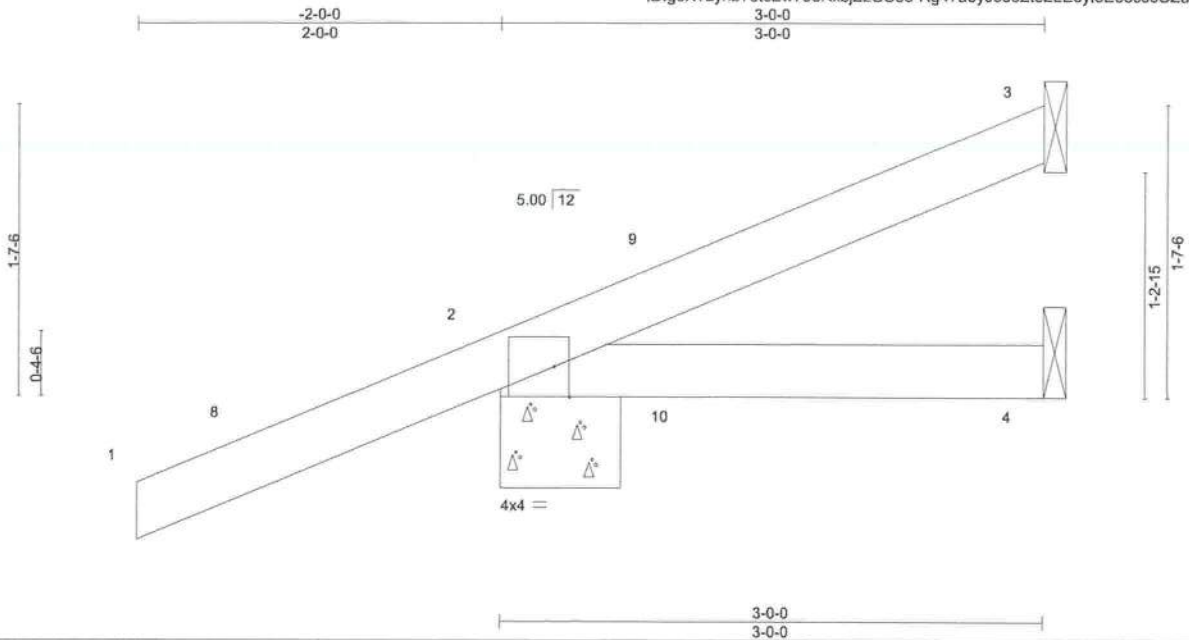
MiTek®

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218570
4085617	CJ03	Jack-Open	12	1		

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

8,730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:39 2024 Page 1
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Scale = 1:12.4

Plate Offsets (X,Y)-- [2:0-1-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.01 4-7 >999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.00 4-7 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00 3 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP					
Weight: 13 lb									FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=112(LC 12)
Max Uplift 3=-53(LC 12), 2=-215(LC 8), 4=-28(LC 9)
Max Grav 3=51(LC 1), 2=253(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=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=215.

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Joaquin Velez PE No.68182
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Date:

June 20,2024

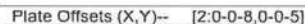
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=160(LC 12)
Max Uplift 3=-110(LC 12), 2=-183(LC 12), 4=-3(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp C; End., 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 right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=110, 2=183.

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Date:

June 20, 2024



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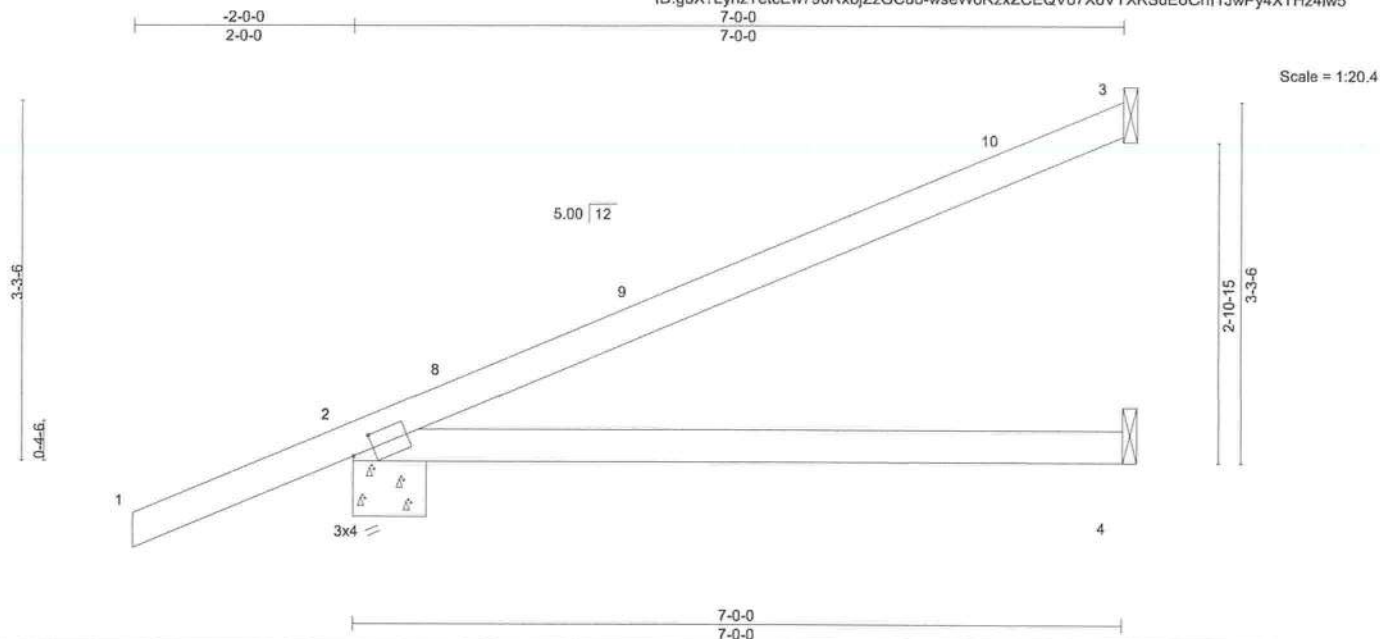


Plate Offsets (X,Y)--		[2:0-2-5,0-1-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	0.15 4-7	>561	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.21 4-7	>400	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01 3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS						Weight: 25 lb	FT = 20%

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

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 5-8-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=201(LC 12)
Max Uplift 3=-146(LC 12), 2=-212(LC 12), 4=-8(LC 12)
Max Grav 3=160(LC 1), 2=380(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=140mph (3-second gust) Vasd=108mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpI=0.18; MWFRS (envelope) gable end zone and C-C Zone3 2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=146, 2=212.

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

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

Date:

June 20, 2024



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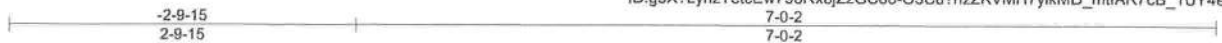
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:41 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-O3Cu?nzZKVMH7yikMD_mtfAT5cEy1UY4ecp4?jz4lw4



Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218574
4085617	HJ08	Diagonal Hip Girder	2	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:41 2024 Page 1
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Scale = 1:18.3

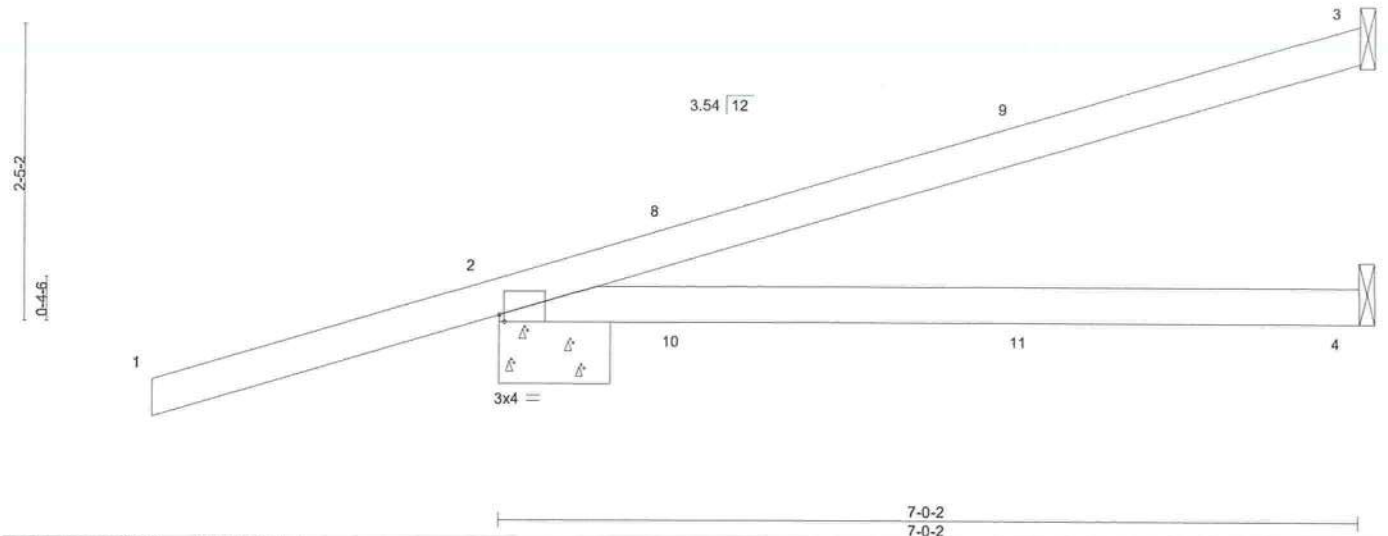


Plate Offsets (X,Y)--		[2:0-0-8,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0		Plate Grip DOL	1.25	TC 0.63		Vert(LL)	-0.18 4-7	>469	240	MT20	244/190		
TCDL 7.0		Lumber DOL	1.25	BC 0.47		Vert(CT)	-0.22 4-7	>384	180				
BCLL 0.0 *		Rep Stress Incr	NO	WB 0.00		Horz(CT)	0.01 2	n/a	n/a				
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS									
										Weight: 26 lb	FT = 20%		

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

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

REACTIONS. (size) 3=Mechanical, 2=0-10-15, 4=Mechanical
Max Horz 2=182(LC 4)
Max Uplift 3=-131(LC 8), 2=-287(LC 4), 4=-61(LC 5)
Max Grav 3=139(LC 1), 2=346(LC 1), 4=108(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=131, 2=287.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 103 lb up at 1-6-1, 117 lb down and 103 lb up at 1-6-1, and 29 lb down and 54 lb up at 4-4-0, and 29 lb down and 54 lb up at 4-4-0 on top chord, and 99 lb down and 74 lb up at 1-6-1, 99 lb down and 74 lb up at 1-6-1, and 59 lb down and 34 lb up at 4-4-0, and 59 lb down and 34 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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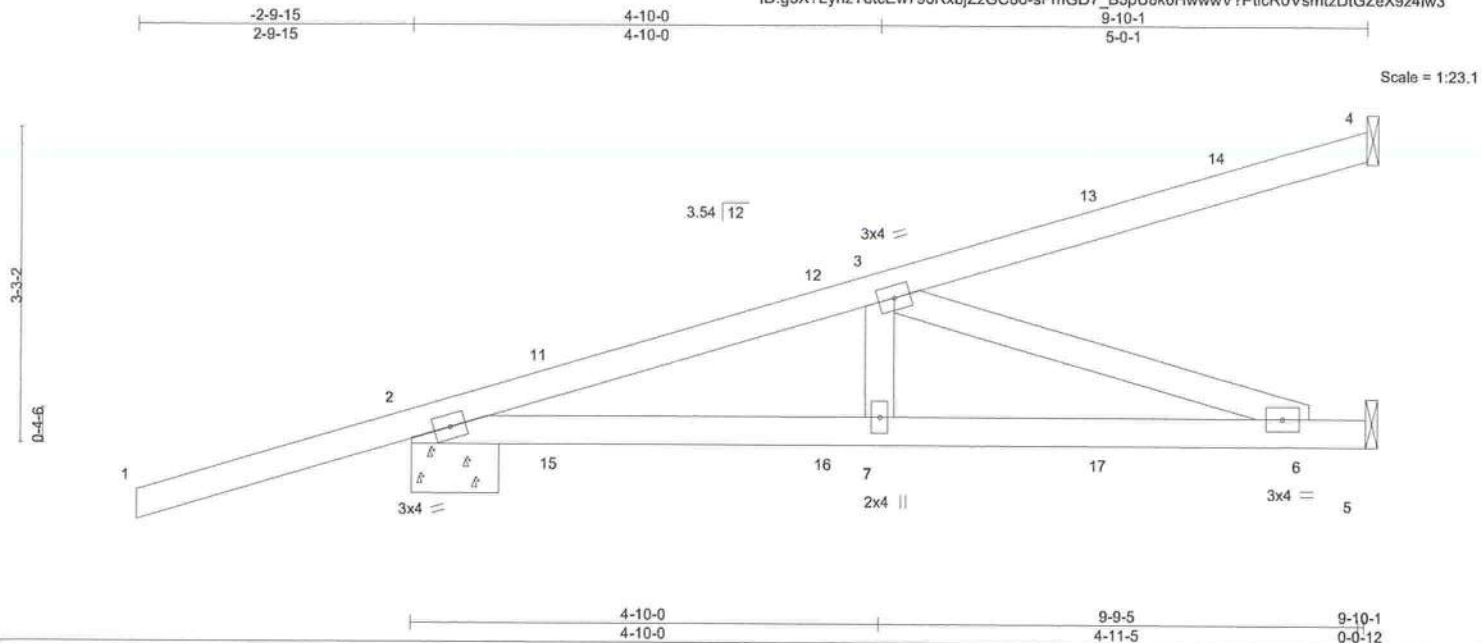
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MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218575
4085617	HJ10	Diagonal Hip Girder	4	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:42 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-sFmGD7_B5pU8k6HwwwV?PticR0VsmztDlGZeX9z4lw3



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 0.59	Vert(LL)	0.12	6-7	>988	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.13	6-7	>934	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.31	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 43 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-14 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=224(LC 4)
Max Uplift 4=-133(LC 4), 2=-376(LC 4), 5=-212(LC 5)
Max Grav 4=142(LC 1), 2=463(LC 1), 5=267(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-699/494
BOT CHORD 2-7=-547/648, 6-7=-547/648
WEBS 3-7=-95/258, 3-6=-684/577

NOTES-

- 1) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=133, 2=376, 5=212.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 103 lb up at 1-6-1, 117 lb down and 103 lb up at 1-6-1, 29 lb down and 54 lb up at 4-4-0, 29 lb down and 54 lb up at 4-4-0, and 54 lb down and 116 lb up at 7-1-15, and 54 lb down and 116 lb up at 7-1-15 on top chord, and 99 lb down and 74 lb up at 1-6-1, 99 lb down and 74 lb up at 1-6-1, 59 lb down and 34 lb up at 4-4-0, 59 lb down and 34 lb up at 4-4-0, and 40 lb down and 18 lb up at 7-1-15, and 40 lb down and 18 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 11=49(F=24, B=24) 13=-63(F=-31, B=-31) 15=70(F=35, B=35) 16=4(F=2, B=2) 17=-50(F=-25, B=-25)

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

June 20,2024

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Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218576
4085617	T01	Hip Girder	1	1		

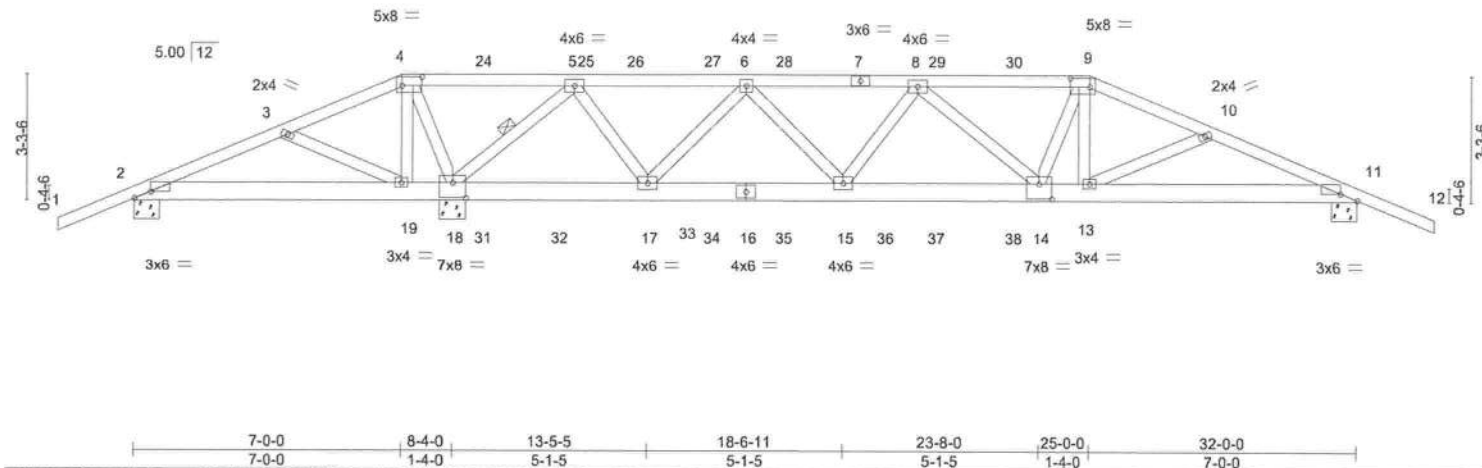
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:43 2024 Page 1

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Scale = 1:58.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.96	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.65	Vert(LL) 0.20 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.64	Vert(CT) -0.24 14-15 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 11 n/a n/a		
	Code FBC2023/TPI2014			Weight: 189 lb	FT = 20%

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

REACTIONS. (size) 2=0-8-0, 18=0-8-0, 11=0-8-0
Max Horz 2=94(LC 29)
Max Uplift 2=520(LC 22), 18=2375(LC 4), 11=988(LC 9)
Max Grav 2=355(LC 13), 18=3604(LC 1), 11=1479(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-965/1654, 3-4=-1041/1758, 4-5=-1360/2169, 5-6=-901/579, 6-8=-2574/1688,
8-9=-2791/1914, 9-10=-2899/1970, 10-11=-3084/2092
BOT CHORD 2-19=-1509/1030, 18-19=-1578/1130, 15-17=-1167/1942, 14-15=-1795/2870,
13-14=-1661/2676, 11-13=-1824/2825
WEBS 4-19=-294/378, 4-18=-1416/1080, 5-18=-2834/1889, 5-17=-964/1676, 6-17=-1587/1115,
6-15=-577/967, 8-15=-542/508, 9-14=-147/296, 9-13=-264/498

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=520, 18=2375, 11=988.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 144 lb up at 7-0-0, 106 lb down and 144 lb up at 9-0-12, 106 lb down and 144 lb up at 11-0-12, 106 lb down and 144 lb up at 13-0-12, 106 lb down and 143 lb up at 15-0-12, 106 lb down and 143 lb up at 16-11-4, 106 lb down and 144 lb up at 18-11-4, 106 lb down and 144 lb up at 20-11-4, and 106 lb down and 144 lb up at 22-11-4, and 219 lb down and 274 lb up at 25-0-0 on top chord, and 295 lb down and 282 lb up at 7-0-0, 84 lb down and 28 lb up at 9-0-12, 84 lb down and 28 lb up at 11-0-12, 84 lb down and 28 lb up at 13-0-12, 84 lb down and 28 lb up at 15-0-12, 84 lb down and 28 lb up at 16-11-4, 84 lb down and 28 lb up at 18-11-4, 84 lb down and 28 lb up at 20-11-4, and 84 lb down and 28 lb up at 22-11-4, and 295 lb down and 282 lb up at 24-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

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

June 20,2024

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

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS
4085617	T01	Hip Girder	1	1	T34218576
Job Reference (optional)					

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:43 2024 Page 2
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LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-9=-54, 9-12=-54, 2-11=-20
Concentrated Loads (lb)
Vert: 4=-106(F) 7=-106(F) 9=-172(F) 19=-292(F) 13=-292(F) 24=-106(F) 25=-106(F) 26=-106(F) 27=-106(F) 28=-106(F) 29=-106(F) 30=-106(F) 31=-61(F)
32=-61(F) 33=-61(F) 34=-61(F) 35=-61(F) 36=-61(F) 37=-61(F) 38=-61(F)

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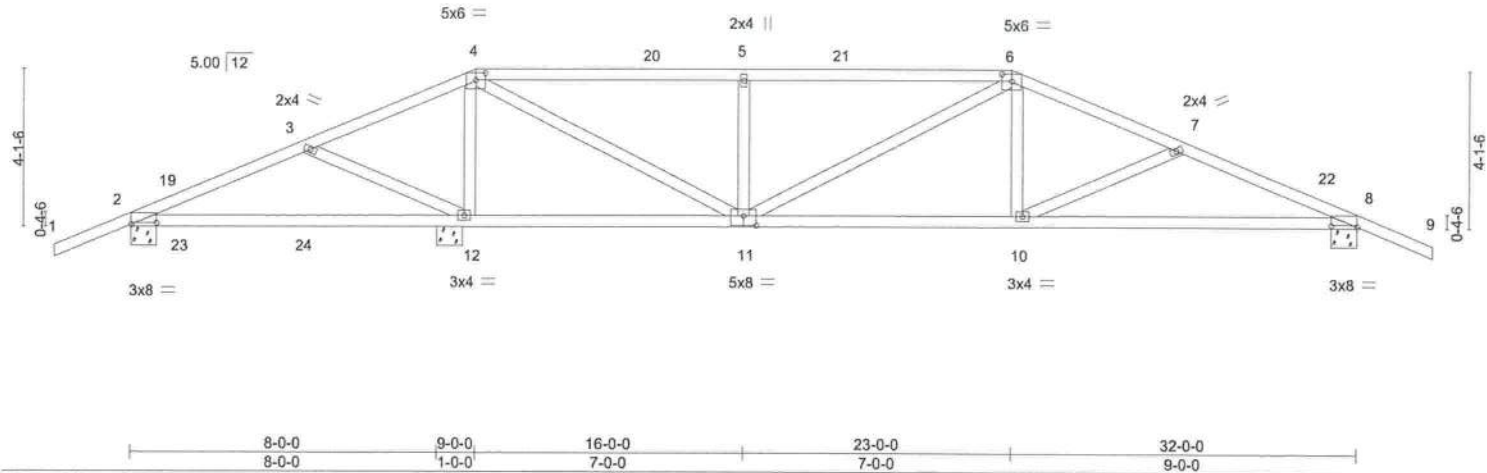
Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218577
4085617	T02	Hip	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:44 2024 Page 1
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-2-0-0	4-8-7	9-0-0	16-0-0	23-0-0	27-3-9	32-0-0	34-0-0
2-0-0	4-8-7	4-3-9	7-0-0	7-0-0	4-3-9	4-8-7	2-0-0

Scale = 1:58.6



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 0.54	Vert(LL)	0.20 12-15	>534	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.68	Vert(CT)	0.17 12-15	>631	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 156 lb	FT = 20%

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

REACTIONS. (size) 2=0-8-0, 12=0-8-0, 8=0-8-0
Max Horz 2=-115(LC 17)
Max Uplift 2=-230(LC 8), 12=-871(LC 8), 8=-514(LC 13)
Max Grav 2=230(LC 25), 12=1525(LC 1), 8=881(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-123/439, 3-4=-254/646, 4-5=-820/522, 5-6=-820/522, 6-7=-1203/664, 7-8=-1492/856
BOT CHORD 2-12=-383/276, 11-12=-509/410, 10-11=-401/1056, 8-10=-679/1354
WEBS 3-12=-353/405, 4-12=-1208/677, 4-11=-760/1459, 5-11=-437/398, 6-11=-294/199, 6-10=-74/395, 7-10=-315/302

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 9-0-0, Zone2 9-0-0 to 13-6-5, Zone1 13-6-5 to 23-0-0, Zone2 23-0-0 to 27-5-13, Zone1 27-5-13 to 34-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=230, 12=871, 8=514.

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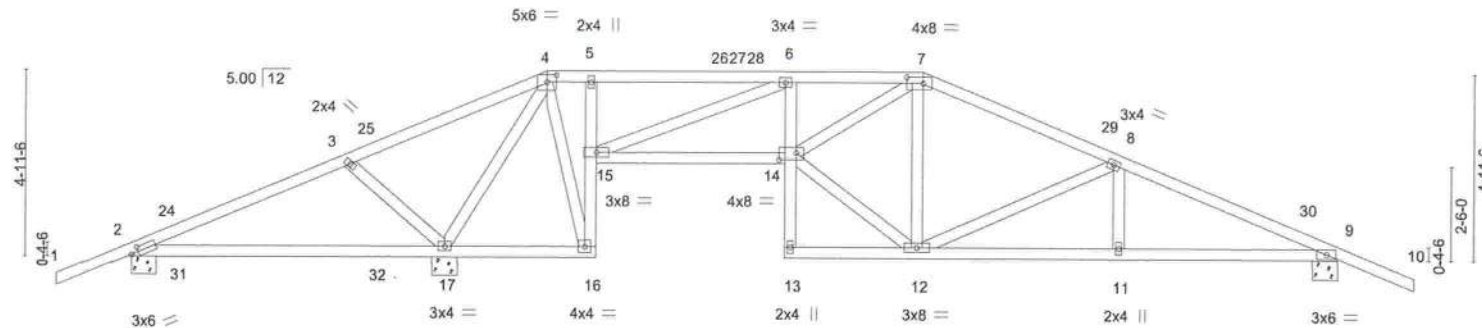
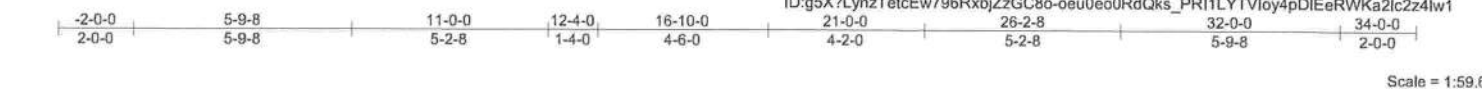
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8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:44 2024 Page 1
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	8-4-0	12-4-0	16-10-0	17-4-0	21-0-0	26-2-8	32-0-0
	8-4-0	4-0-0	4-6-0	0-6-0	3-8-0	5-2-8	5-9-8
Plate Offsets (X,Y)--	[2:0-2-6, 0-1-8]	[4:0-3-0, 0-2-4]	[7:0-5-4, 0-2-0]	[14:0-5-8, 0-2-4]			

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.58	Vert(LL) 0.17 17-20 >595 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.47	Vert(CT) -0.19 17-20 >518 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.07 9 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 174 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-10-3 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
	5-16,6-13: 2x4 SP No.3		
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 9=0-8-0, 17=0-8-0
 Max Horz 2=-135(LC 13)
 Max Uplift 2=-224(LC 26), 9=-541(LC 13), 17=-832(LC 8)
 Max Grav 2=74(LC 25), 9=843(LC 26), 17=1726(LC 1)

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

TOP CHORD 2-3=-184/903, 3-4=-284/1081, 4-5=-108/289, 5-6=-142/280, 6-7=-1334/890,
7-8=-887/641, 8-9=-1400/876

BOT CHORD 2-17=-808/215, 15-16=-805/416, 14-15=-591/1365, 6-14=-74/344, 11-12=-687/1247,
9-11=-687/1247

WEBS 3-17=-361/355, 4-17=-1511/620, 4-16=-380/833, 6-15=-1428/667, 12-14=-399/926,
7-14=-332/673, 8-12=-535/390

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 11-0-0, Zone2 11-0-0 to 15-6-5, Zone1 15-6-5 to 21-0-0, Zone2 21-0-0 to 25-6-5, Zone1 25-6-5 to 34-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
2=224, 9=541, 17=832.

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Joaquin Velez PE No.68182
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Date:

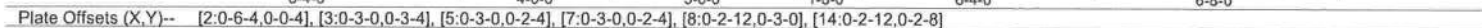
June 20, 2024

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:45 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-GqSPR804OksjcZ0Vb33i1VK7xDZdz9TfZEnl8Uz4lw0



Weight: 175 lb FT = 20%

TOP CHORD	Structural wood sheathing directly applied or 4-10-11 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-17

(size) 2=0-8-0, 9=0-8-0, 17=0-8-0
Max Horz 2=156(LC 12)
Max Uplift 2=-237(LC 8), 9=-548(LC 13), 17=-733(LC 8)
Max Grav 2=97(LC 25), 9=846(LC 26), 17=1723(LC 1)

TOP CHORD 2-17=738/174, 4-15=134/688, 11-12=681/1233, 9-11=681/1220
 BOT CHORD 3-17=357/354, 4-17=1544/555, 5-14=418/921, 12-14=419/1120, 7-14=246/667,
 WEBS 7-12=560/201, 8-12=660/482, 8-11=0/270, 5-15=653/303

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 13-0-0, Zone2 13-0-0 to 17-5-12, Zone1 17-5-12 to 19-0-0, Zone2 19-0-0 to 23-6-5, Zone1 23-6-5 to 34-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=237, 9=548, 17=733.

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

June 20, 2024



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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218580
4085617	T05	Hip	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:46 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-k0?n3U1i92_aDjbh9maxajtHXdrxihJpouXrgwz4lw?

Scale = 1:59.6

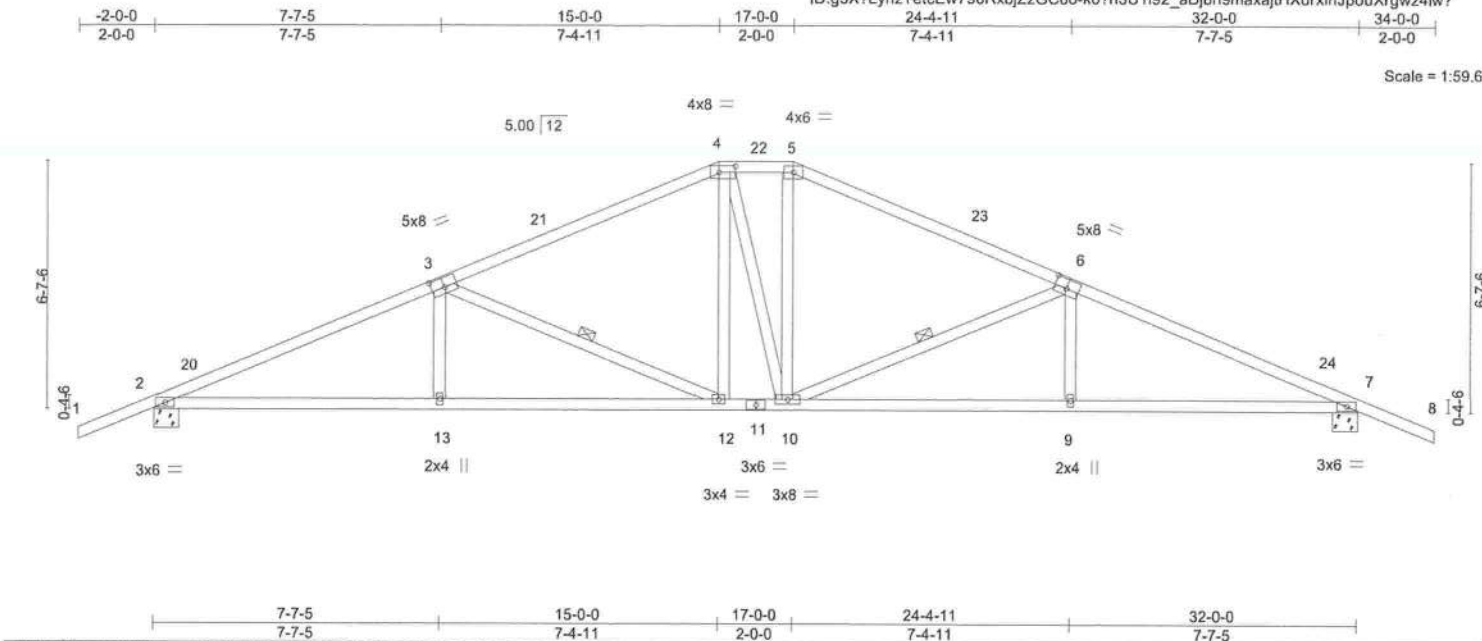


Plate Offsets (X,Y)--		[3:0-4-0,0-3-0], [4:0-5-4,0-2-0], [6:0-4-0,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.65		Vert(LL)	0.17 12-13	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.74		Vert(CT)	-0.32 12-13	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.29		Horz(CT)	0.11 7	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-MS						Weight: 165 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-6-4 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-12, 6-10

REACTIONS. (size) 2=0-8-0, 7=0-8-0
Max Horz 2=-177(LC 13)
Max Uplift 2=-662(LC 12), 7=-662(LC 13)
Max Grav 2=1292(LC 1), 7=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2453/1133, 3-4=-1703/836, 4-5=-1503/835, 5-6=-1705/836, 6-7=-2452/1133
BOT CHORD 2-13=-1080/2205, 12-13=-1081/2202, 10-12=-558/1501, 9-10=-904/2201, 7-9=-903/2204
WEBS 3-13=0/321, 3-12=-780/574, 4-12=-194/398, 5-10=-210/404, 6-10=-778/574, 6-9=0/319

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2 17-0-0 to 21-6-5, Zone1 21-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=662, 7=662.

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

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

June 20,2024



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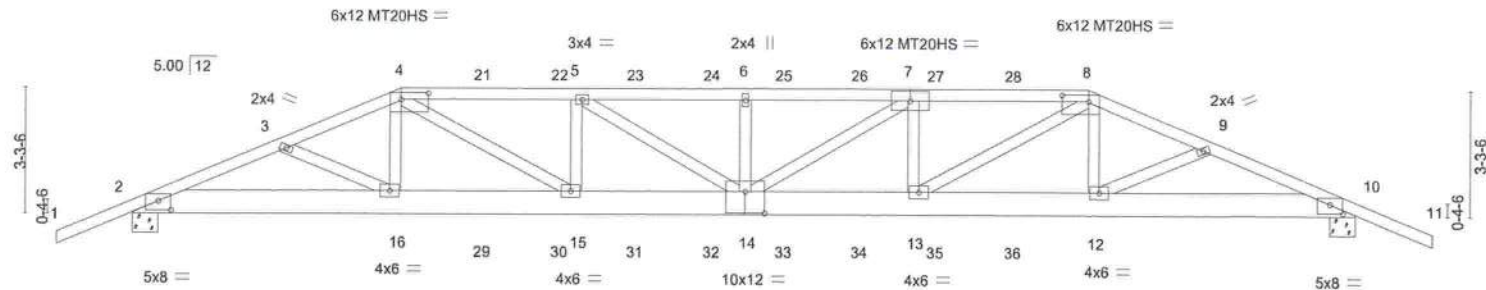
MiTek®

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

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218581
4085617	T06	Hip Girder	1	1		

Builders FirstSource (Lake City,FL),		Lake City, FL - 32055,		8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:47 2024 Page 1					
ID:g5X?LynzTetcEw796RxbjZzGC8o-DDZ9Gq2KwL6RrtAiT5A6wQRr1HxR0Uy0YGPCNz4lw_									
-2-0-0	3-11-15	7-0-0	11-6-14	16-0-0	20-5-2	25-0-0	28-0-1	32-0-0	34-0-0
2-0-0	3-11-15	3-0-1	4-6-14	4-5-2	4-5-2	4-6-14	3-0-1	3-11-15	2-0-0
Scale = 1:58.6									

Scale = 1:58.6



		7-0-0		11-6-14		16-0-0		20-5-2		25-0-0		32-0-0	
		7-0-0		4-6-14		4-5-2		4-5-2		4-6-14		7-0-0	
Plate Offsets (X,Y)--		[2:0-4-0,0-2-14], [4:0-8-8,0-2-0], [8:0-8-8,0-2-0], [10:0-4-0,0-2-14], [14:0-6-0,0-6-12]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl		L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.74		Vert(LL) 0.62 14		>616		240		MT20 244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.37		Vert(CT) -0.74 14		>516		180		MT20HS 187/143	
BCLL	0.0 *	Rep Stress Incr NO		WB 0.80		Horz(CT) 0.11 10		n/a		n/a			
BCDL	10.0	Code FBC2023/TP12014		Matrix-MS								Weight: 211 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 4-7,7-8: 2x4 SP 2850F 2.0E or 2x4 SP M 31	TOP CHORD	Structural wood sheathing directly applied or 2-1-14 oc purlins.
BOT CHORD	2x8 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 5-9-2 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	(size) 2=0-8-0, 10=0-8-0
	Max Horz 2=-94(LC 13)
	Max Uplift 2=-1529(LC 8), 10=-1557(LC 9)
	Max Grav 2=2373(LC 1), 10=2410(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5476/3541, 3-4=-5341/3447, 4-5=-6640/4318, 5-6=-7108/4610, 6-7=-7108/4610, 7-8=-6675/4359, 8-9=-5437/3541, 9-10=-5571/3608
BOT CHORD	2-16=-3248/5018, 15-16=-3088/4883, 14-15=-4181/6640, 13-14=-4243/6700, 12-13=-3145/4973, 10-12=-3218/5105
WEBS	4-16=-330/652, 4-15=-1343/2110, 5-15=-841/661, 5-14=-409/601, 6-14=-447/407, 7-14=-332/520, 7-13=-801/623, 8-13=-1272/2035, 8-12=-326/651

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1529, 10=1557.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 144 lb up at 7-0-0, 106 lb down and 144 lb up at 9-0-12, 106 lb down and 144 lb up at 11-0-12, 106 lb down and 144 lb up at 13-0-12, 106 lb down and 143 lb up at 15-0-12, 106 lb down and 143 lb up at 16-11-4, 106 lb down and 144 lb up at 18-11-4, 106 lb down and 144 lb up at 20-11-4, and 106 lb down and 144 lb up at 22-11-4, and 219 lb down and 274 lb up at 25-0-0 on top chord, and 295 lb down and 282 lb up at 7-0-0, 84 lb down and 28 lb up at 9-0-12, 84 lb down and 28 lb up at 11-0-12, 84 lb down and 28 lb up at 13-0-12, 84 lb down and 28 lb up at 15-0-12, 84 lb down and 28 lb up at 16-11-4, 84 lb down and 28 lb up at 18-11-4, 84 lb down and 28 lb up at 20-11-4, and 84 lb down and 28 lb up at 22-11-4, and 295 lb down and 282 lb up at 24-11-4 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).

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 16634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

June 20,2024

Continued on page 2	
LOAD CASE(S) Standard	
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Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS
4085617	T06	Hip Girder	1	1	T34218581
Job Reference (optional)					

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:47 2024 Page 2
ID:g5X?LynzTetcEw796RxbjZzGC8o-DDZ9Gq2KwL6RrtAtiT5A6wQRr1HxR0Uy0YGPCNz4lw_

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-54, 4-8=-54, 8-11=-54, 2-10=-20
- Concentrated Loads (lb)
- Vert: 16=-292(B) 4=-106(B) 8=-172(B) 12=-292(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-106(B) 26=-106(B) 27=-106(B) 28=-106(B) 29=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 34=-61(B) 35=-61(B) 36=-61(B)



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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218582
4085617	T07	Hip	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:47 2024 Page 1
ID:g5X?LynzTetcEw796RxbjZzGC8o-DDZ9Gq2KwL6RrtAtiT5A6wQUY19cR0uy0YGPCNz4lw_

-2-0-0	4-10-1	9-0-0	16-0-0	23-0-0	27-1-15	32-0-0	34-0-0
2-0-0	4-10-1	4-1-15	7-0-0	7-0-0	4-1-15	4-10-1	2-0-0

Scale = 1:58.6

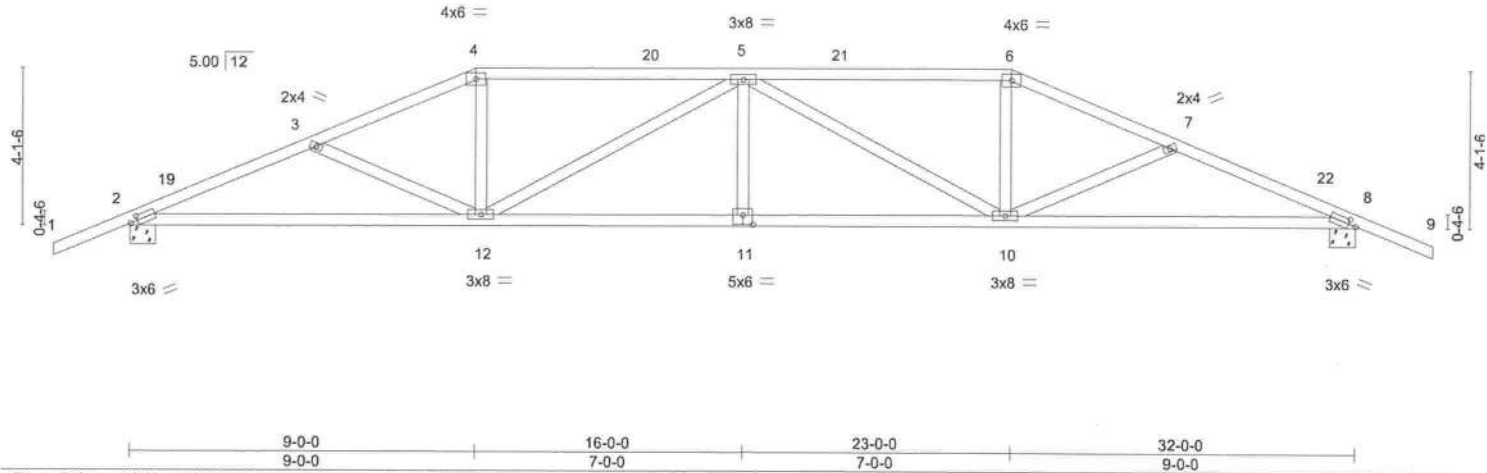


Plate Offsets (X,Y)-- [2:0-2-6,0-1-8], [8:0-2-6,0-1-8], [11:0-3-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.57	Vert(LL)	0.25	11	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.84	Vert(CT)	-0.36	10-11	>999	180	
BCLL	0.0 *	Rep Stress Incr YES		WB	0.78	Horz(CT)	0.12	8	n/a	n/a	
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 156 lb FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-4 oc bracing.

REACTIONS. (size) 2=0-8-0, 8=0-8-0
Max Horz 2=-115(LC 13)
Max Uplift 2=-672(LC 12), 8=-672(LC 13)
Max Grav 2=1292(LC 1), 8=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2516/1244, 3-4=-2231/1099, 4-5=-2039/1057, 5-6=-2039/1057, 6-7=-2231/1099,
7-8=-2516/1244
BOT CHORD 2-12=-1147/2285, 11-12=-1208/2533, 10-11=-1208/2533, 8-10=-1033/2285
WEBS 3-12=-296/291, 4-12=-201/566, 5-12=-669/397, 5-10=-669/397, 6-10=-201/566,
7-10=-296/292

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 9-0-0, Zone2 9-0-0 to 13-6-5, Zone1 13-6-5 to 23-0-0, Zone2 23-0-0 to 27-4-3, Zone1 27-4-3 to 34-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=672, 8=672.

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

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

June 20,2024

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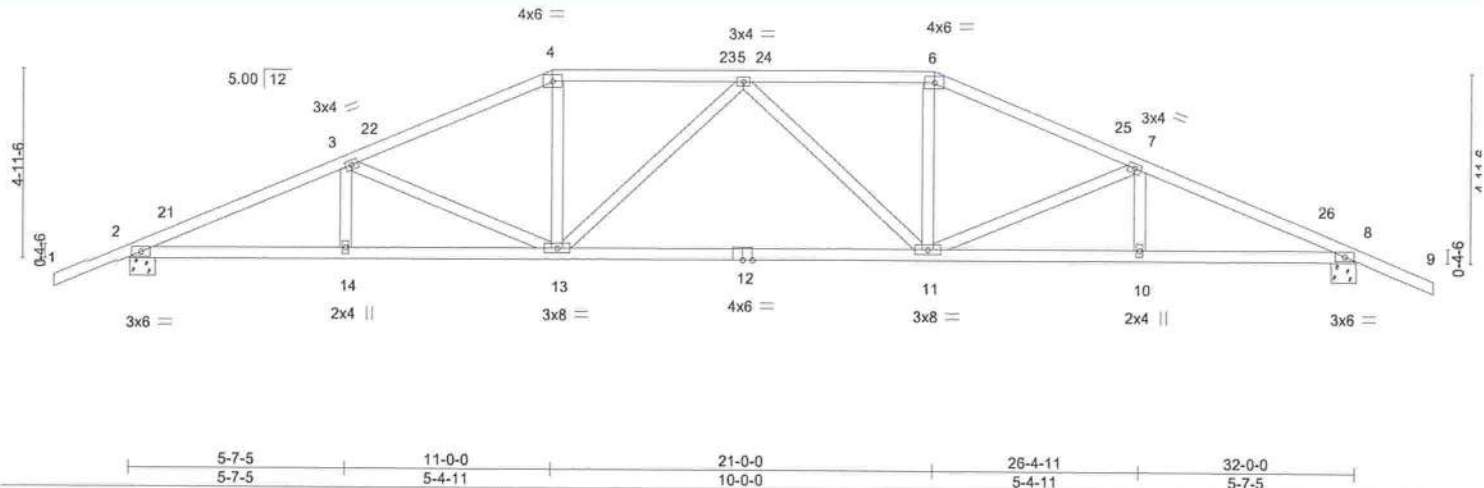
Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218583
4085617	T08	Hip	1	1	Job Reference (optional)	

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:48 2024 Page 1
ID:g5X7LynzTetcEw796RxbjZzGC8o-hP7XTA3ygfEIT114GBcPf8yhmRTsAa26FC0ykpz4lvz

-2-0-0	5-7-5	11-0-0	16-0-0	21-0-0	26-4-11	32-0-0	34-0-0
2-0-0	5-7-5	5-4-11	5-0-0	5-0-0	5-4-11	5-7-5	2-0-0

Scale = 1:58.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.41	Vert(LL)	-0.26 11-13	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.90	Vert(CT)	-0.56 11-13	>680	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.34	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2023/TPI2014						Weight: 160 lb	FT = 20%

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

REACTIONS. (size) 2=0-8-0, 8=0-8-0
Max Horz 2=135(LC 12)
Max Uplift 2=-669(LC 12), 8=-669(LC 13)
Max Grav 2=1292(LC 1), 8=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2525/1205, 3-4=-2062/980, 4-5=-1863/958, 5-6=-1863/958, 6-7=-2062/980, 7-8=-2525/1206
BOT CHORD 2-14=-1128/2285, 13-14=-1128/2285, 11-13=-866/2015, 10-11=-994/2285, 8-10=-994/2285
WEBS 3-13=-483/391, 4-13=-199/512, 5-13=-327/257, 5-11=-327/257, 6-11=-199/512, 7-11=-483/392

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 11-0-0, Zone2 11-0-0 to 15-6-5, Zone1 15-6-5 to 21-0-0, Zone2 21-0-0 to 25-6-5, Zone1 25-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=669, 8=669.

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

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

June 20,2024

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MiTek®
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218584
4085617	T09	Hip	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:49 2024 Page 1

ID:g5X?LynzTetcEw796RxbjZzGC8o-9bhvhW4aRzM84AKGqu7eCLVqnquavzhFUrWGFz4lvy

-2-0-0	6-6-1	13-0-0	19-0-0	25-5-15	32-0-0	34-0-0
2-0-0	6-6-1	6-5-15	6-0-0	6-5-15	6-6-1	2-0-0

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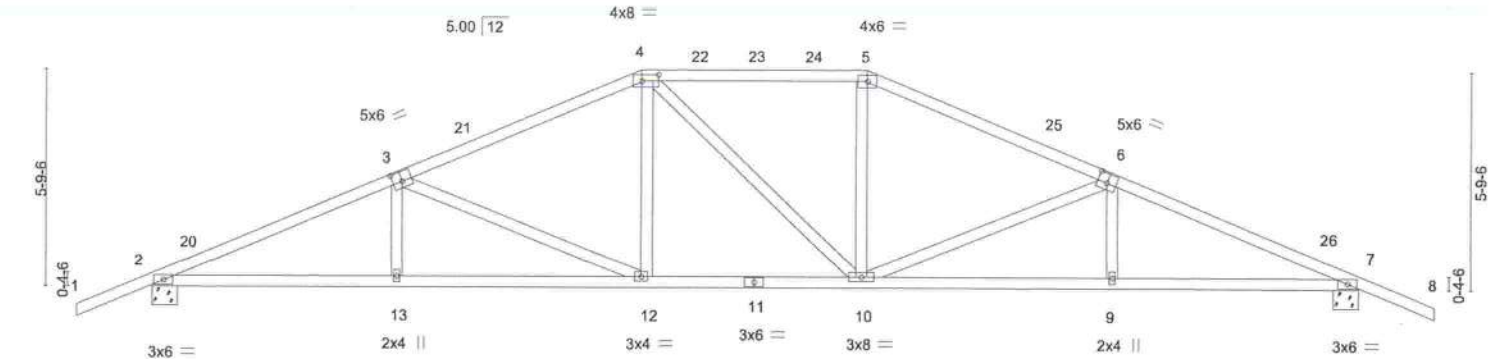


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [4:0-5-4,0-2-0], [6:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.52	Vert(LL)	0.17 12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.30 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.11 7	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 160 lb	FT = 20%

LUMBER-				BRACING-		
TOP CHORD	2x4 SP No.2			TOP CHORD		Structural wood sheathing directly applied or 3-5-7 oc purlins.
BOT CHORD	2x4 SP No.2			BOT CHORD		Rigid ceiling directly applied or 5-6-13 oc bracing.
WEBS	2x4 SP No.3					

REACTIONS. (size) 2=0-8-0, 7=0-8-0
Max Horz 2=-156(LC 13)
Max Uplift 2=-666(LC 12), 7=-666(LC 13)
Max Grav 2=1292(LC 1), 7=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2501/1172, 3-4=-1879/929, 4-5=-1678/917, 5-6=-1880/929, 6-7=-2501/1173
BOT CHORD 2-13=-1108/2256, 12-13=-1109/2252, 10-12=-671/1677, 9-10=-959/2252, 7-9=-957/2256
WEBS 3-13=0/267, 3-12=-640/481, 4-12=-153/430, 5-10=-144/431, 6-10=-640/482, 6-9=0/267

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 13-0-0, Zone2 13-0-0 to 17-6-5, Zone1 17-6-5 to 19-0-0, Zone2 19-0-0 to 23-6-5, Zone1 23-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=666, 7=666.

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

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

June 20,2024

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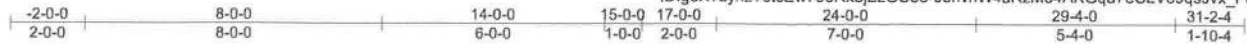
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16023 Swingley Ridge Rd,
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218585
4085617	T10	Hip	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:49 2024 Page 1

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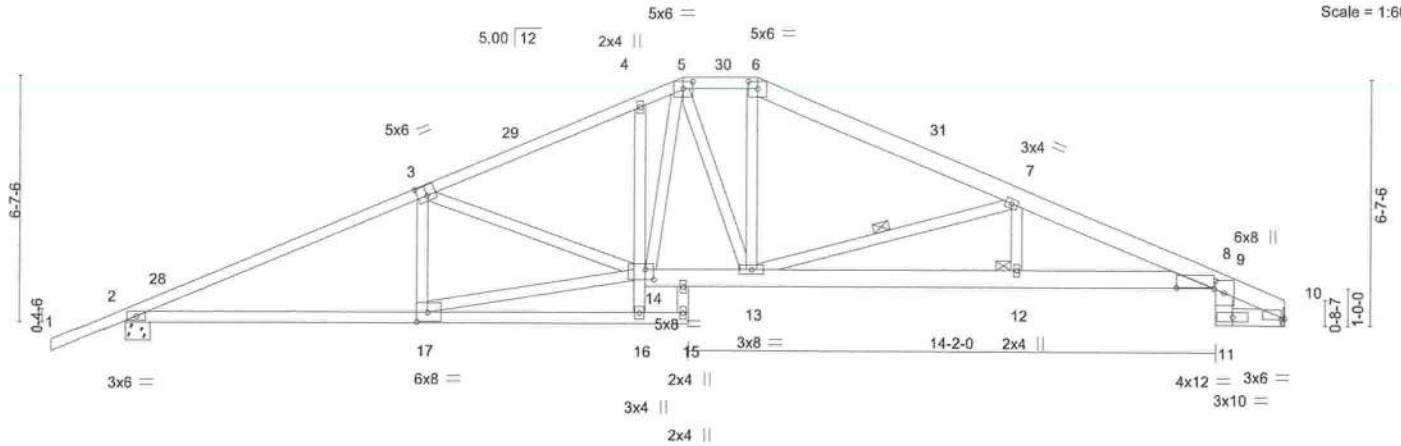


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [5:0-3-0,0-2-4], [6:0-3-0,0-2-4], [8:1-0-0,0-0-4], [9:0-4-0,0-2-12], [10:0-1-0,0-0-4], [14:0-2-12,0-3-4], [17:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	0.27	12-27	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.76	Vert(CT)	-0.41	12-27	>911	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.20	10	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
									Weight: 197 lb FT = 20%

LUMBER-									
TOP CHORD	2x4 SP No.2 *Except*								
	6-10: 2x6 SP M 26								
BOT CHORD	2x6 SP No.2 *Except*								
	2-15: 2x4 SP No.2, 4-16: 2x4 SP No.3, 8-14: 2x6 SP M 26								
WEBS	2x4 SP No.3								
REACTIONS.	(size) 10=Mechanical, 2=0-8-0								
	Max Horz 2=206(LC 12)								
	Max Uplift 10=-554(LC 13), 2=-649(LC 12)								
	Max Grav 10=1157(LC 1), 2=1279(LC 1)								

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.								
TOP CHORD	2-3=-2377/1072, 3-4=-2107/990, 4-5=-2063/1074, 5-6=-1755/900, 6-7=-1983/922,								
	7-8=-3303/1493, 8-9=-400/223, 9-10=-1318/642								
BOT CHORD	2-17=-1042/2128, 13-14=-648/1725, 12-13=-1304/3097, 8-12=-1304/3097, 9-11=-139/309,								
	10-11=-380/811								
WEBS	14-17=-978/1942, 3-14=-347/312, 5-14=-475/702, 6-13=-215/517, 7-13=-1421/876,								
	7-12=-79/443								

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-1-7, Zone1 1-1-7 to 15-0-0, Zone3 15-0-0 to 17-0-0, Zone2 17-0-0 to 21-4-15, Zone1 21-4-15 to 31-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=554, 2=649.

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

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

June 20,2024

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

Job	Truss	Truss Type	Qty	Ply	Vladimir Luis	T34218586
4085617	T11	Common	4	1		

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

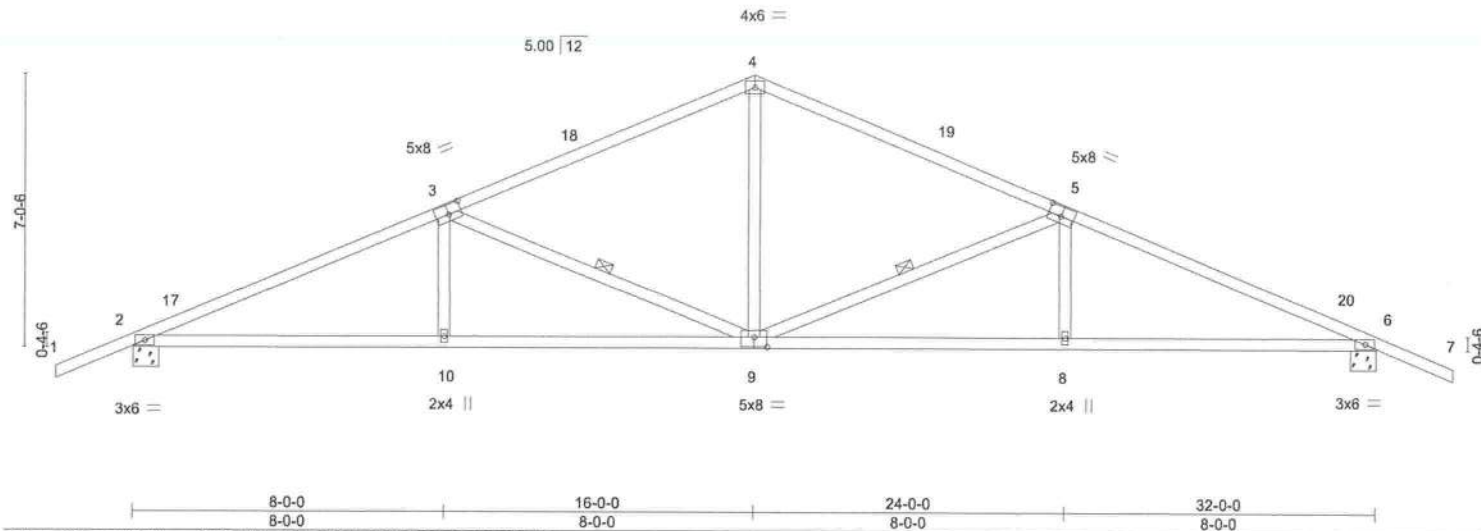
8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:50 2024 Page 1

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Job Reference (optional)

-2-0-0 8-0-0 16-0-0 24-0-0 32-0-0 34-0-0
2-0-0 8-0-0 8-0-0 8-0-0 8-0-0 2-0-0

Scale = 1:57.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.77	Vert(LL) 0.18 10-13 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.34	Vert(CT) -0.31 8-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 6 n/a n/a		
	Code FBC2023/TPI2014			Weight: 150 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-5-15 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-9, 3-9

REACTIONS.	(size) 2=0-8-0, 6=0-8-0
	Max Horz 2=187(LC 12)
	Max Uplift 2=-660(LC 12), 6=-660(LC 13)
	Max Grav 2=1292(LC 1), 6=1292(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2432/1119, 3-4=-1640/845, 4-5=-1640/845, 5-6=-2432/1120
BOT CHORD	2-10=-1074/2183, 9-10=-1074/2180, 8-9=-916/2180, 6-8=-915/2183
WEBS	4-9=-303/804, 5-9=-837/622, 5-8=0/329, 3-9=-837/621, 3-10=0/329

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-2-6, Zone1 1-2-6 to 16-0-0, Zone2 16-0-0 to 20-6-5, Zone1 20-6-5 to 34-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=660, 6=660.

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

June 20,2024

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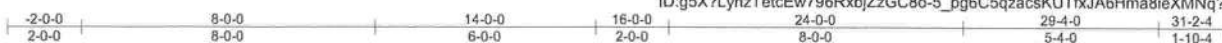
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218587
4085617	T12	Roof Special	6	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:51 2024 Page 1

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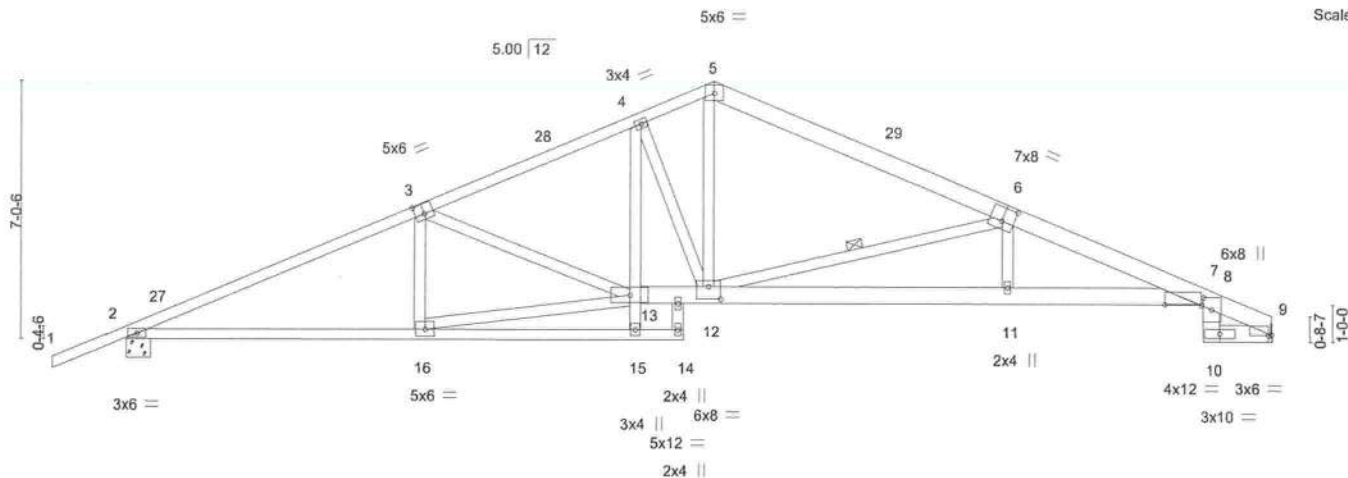


Plate Offsets (X,Y)--	[3:0-3-0,0-3-4], [6:0-4-0,0-4-8], [7:1-0-0,0-0-4], [8:0-4-0,0-2-12], [9:0-1-0,0-0-4], [12:0-4-0,0-4-0]
-----------------------	--------------------------------------------------------------------------------------------------------

LOADING (psf)	SPACING-	2-0-0	CSI,	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	0.27 11-23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.42 11-23	>889	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.20 9	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 193 lb	FT = 20%

LUMBER-				BRACING-		
TOP CHORD	2x4 SP No.2 *Except*			TOP CHORD	Structural wood sheathing directly applied or 2-8-1 oc purlins.	
	5-6: 2x6 SP No.2, 6-9: 2x6 SP M 26			BOT CHORD	Rigid ceiling directly applied or 5-5-11 oc bracing. Except:	
BOT CHORD	2x6 SP No.2 *Except*				10-0-0 oc bracing: 13-15	
	2-14: 2x4 SP No.2, 4-15: 2x4 SP No.3, 7-13: 2x6 SP M 26			WEBS	1 Row at midpt	6-12
WEBS	2x4 SP No.3					

REACTIONS. (size) 2=0-8-0, 9=Mechanical
Max Horz 2=216(LC 12)
Max Uplift 2=647(LC 12), 9=552(LC 13)
Max Grav 2=1279(LC 1), 9=1157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2377/1074, 3-4=-2042/1002, 4-5=-1819/961, 5-6=-1878/918, 6-7=-3309/1549,
7-8=-400/240, 8-9=-1318/685
BOT CHORD 2-16=-1048/2128, 15-16=-118/301, 4-13=-163/270, 12-13=-737/1829, 11-12=-1344/3089,
7-11=-1347/3104, 8-10=-149/309, 9-10=-404/811
WEBS 13-16=-945/1854, 3-13=-411/341, 4-12=-427/344, 5-12=-540/1132, 6-12=-1508/950,
6-11=-75/469

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-1-7, Zone1 1-1-7 to 16-0-0, Zone2 16-0-0 to 20-4-15, Zone1 20-4-15 to 31-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=647, 9=552.

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

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Date:

June 20,2024



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

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

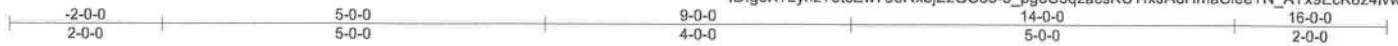
MiTek®

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

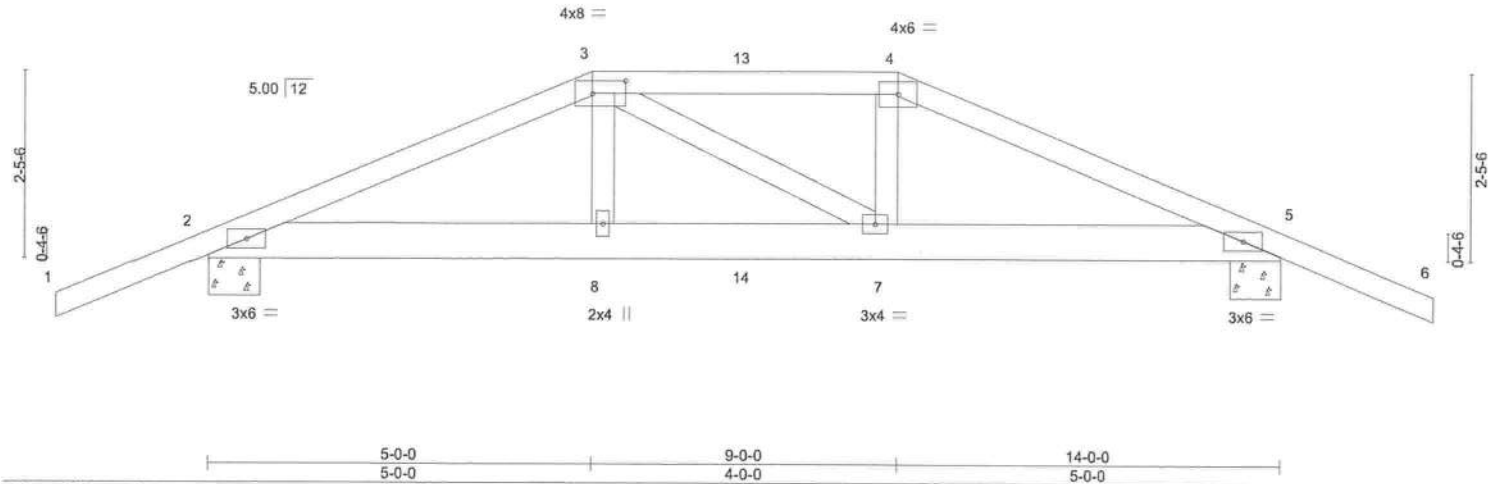
Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218588
4085617	T13	Hip Girder	1	1		

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

8.730 s Apr 25 2024 MiTek Industries, Inc. Wed Jun 19 09:36:51 2024 Page 1
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Scale = 1:29.3



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.07	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.07				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Horz(CT)	0.02				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							
								Weight: 72 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-2 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-3-5 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 5=0-8-0
Max Horz 2=-73(LC 9)
Max Uplift 2=-673(LC 4), 5=-694(LC 5)
Max Grav 2=809(LC 1), 5=827(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1366/1113, 3-4=-1271/1110, 4-5=-1406/1164
BOT CHORD 2-8=-941/1223, 7-8=-950/1236, 5-7=-997/1260
WEBS 3-8=-146/314, 4-7=-105/299

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=673, 5=694.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 73 lb down and 108 lb up at 5-0-0, and 54 lb down and 99 lb up at 7-0-0, and 202 lb down and 236 lb up at 9-0-0 on top chord, and 161 lb down and 92 lb up at 5-0-0, and 46 lb down and 18 lb up at 7-0-0, and 160 lb down and 92 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-6=-54, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-54(F) 4=-117(F) 8=-63(F) 7=-63(F) 13=-54(F) 14=-33(F)

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

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

June 20,2024



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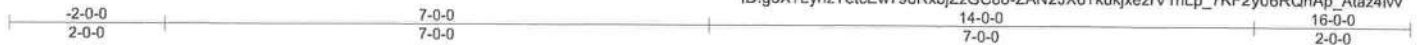
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Job	Truss	Truss Type	Qty	Ply	VLADIMIR LUIS	T34218589
4085617	T14	Common	1	1		

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

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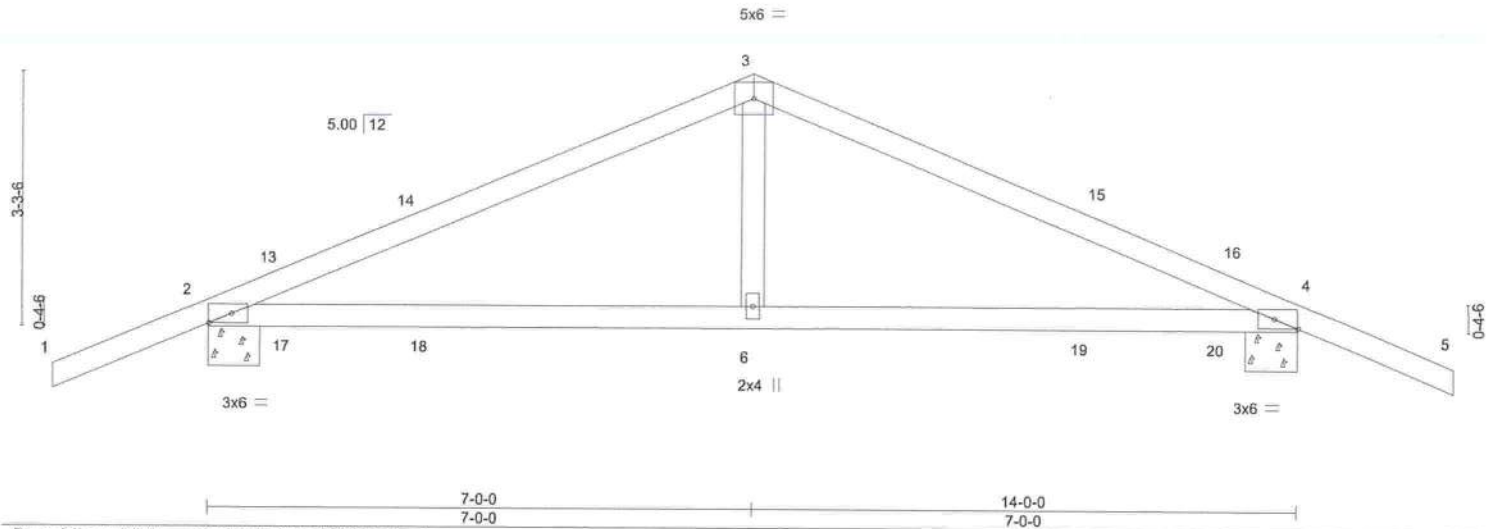


Plate Offsets (X,Y)--		[2:Edge,0-1-8], [4:0-3-8,Edge]		7-0-0		14-0-0		7-0-0	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.14 6-12	>999	240
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.12 6-9	>999	180
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01 4	n/a	n/a
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS					
						PLATES	GRIP		
						MT20	244/190		
						Weight: 54 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-5-15 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-8-0, 4=0-8-0
Max Horz 2=94(LC 12)
Max Uplift 2=-486(LC 8), 4=-486(LC 9)
Max Grav 2=626(LC 1), 4=626(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-786/909, 3-4=-786/909
BOT CHORD 2-6=-668/666, 4-6=-668/666
WEBS 3-6=-305/315

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=486, 4=486.

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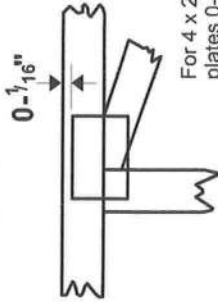
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Symbols

PLATE LOCATION AND ORIENTATION

$\frac{1}{2}L$ → 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

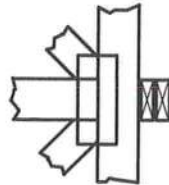
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

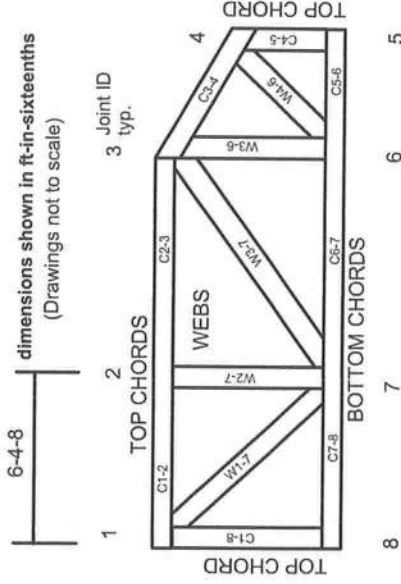


Indicates location where bearings (supports) occur. Icons vary but number section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek Engineering Reference Sheet: MIL-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 1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 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.
- 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.

THE ARROW HEAD AT THE END OF THE THRU-S ON THE THRU- PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL THRU-DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE THRU-S ON THE STRUCTURE.



- For ANSI/PTI 1993 all "Tens to Wall" connections are required to be designed and constructed by the responsible Civil Engineering Designer, and the Tens Manufacturer.
- The Manufacturer's specifications for all hanger connections unless noted otherwise.
- All "Tens" are to be 25 c/c U.N.O.
- All hangers are to be 100mm or equivalent U.N.O.
- The 100 x 1 1/2" Nuts in hanger connections to single ply timber trusses.
- "Tens" are not designed to support brack U.N.O.
- Dimensions are Feet/Inches/Strutted.

Nothing.

No back charges will be accepted by Builders FirstSource unless approved in writing first.
B06-0078-05-01

ACQ lumber is corrosive to brass plates. Any ACQ lumber that comes in contact with brass plates (i.e., installed initially) must have an approved barrier applied first.

proper orientation of the true placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders PrintSource.

placement of trusses are adjusted for plumbness, drops, camber, height, etc., so the trusses do not interfere with those type of beams.

This truss placement gain was not created by an engineer, but rather by the Builders Products staff and its sales force. The staff is so good at its job that it is able to sell a product that is not yet designed. The staff is so good at its job that it is able to sell a product that is not yet designed. The staff is so good at its job that it is able to sell a product that is not yet designed.

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Builders
FIRSTSOURCE

Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville

FAX: 904-772-1973

Tallahassee

100

ASMANIS REYE

Vladimir Ivis

Year	Number of Deaths	Number of Cases
1990	1,000	10,000
1991	1,000	10,000
1992	1,000	10,000
1993	1,000	10,000
1994	1,000	10,000
1995	1,000	10,000
1996	1,000	10,000
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24	ALH	40
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