



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

RE: 6250379 - 1820-B-Tray

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Model: 1820-B Tray

Site Information:

Customer Info: Adams Homes-Gainesville

Project Name: The Preserve at Laurel Lake, 084

Lot/Block: 087

Subdivision: The Preserve at Laurel Lake

Address: 329 SW Silver Palm Dr, .

City: Lake City

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 32 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.

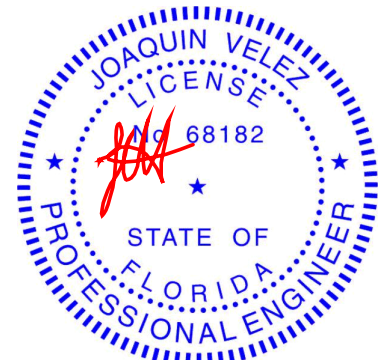
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T37079458	A01	4/22/25	23	T37079480	E03	4/22/25
2	T37079459	A02	4/22/25	24	T37079481	E7	4/22/25
3	T37079460	A03	4/22/25	25	T37079482	E7A	4/22/25
4	T37079461	A04	4/22/25	26	T37079483	E7T	4/22/25
5	T37079462	A04T	4/22/25	27	T37079484	E7V	4/22/25
6	T37079463	A05	4/22/25	28	T37079485	G01	4/22/25
7	T37079464	A05T	4/22/25	29	T37079486	G01X	4/22/25
8	T37079465	A06	4/22/25	30	T37079487	G02	4/22/25
9	T37079466	A07	4/22/25	31	T37079488	H7T	4/22/25
10	T37079467	A08	4/22/25	32	T37079489	H7V	4/22/25
11	T37079468	A09	4/22/25				
12	T37079469	A10	4/22/25				
13	T37079470	A11	4/22/25				
14	T37079471	C1	4/22/25				
15	T37079472	C1V	4/22/25				
16	T37079473	C3T	4/22/25				
17	T37079474	C3V	4/22/25				
18	T37079475	C5T	4/22/25				
19	T37079476	C5V	4/22/25				
20	T37079477	E01	4/22/25				
21	T37079478	E01X	4/22/25				
22	T37079479	E02	4/22/25				

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: Velez, Joaquin

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

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



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

April 22,2025

Velez, Joaquin

1 of 1

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079458
6250379	A01	Roof Special	8	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:08 2025 Page 1
ID:9677KBVwwjNKu0WI9IYrcUzY81Q-5zIT4BI7KypVtSvTmrVJSHoRt2Qun4mb2E1xjzOSFD

-2-0-0	4-7-7	8-4-0	12-4-12	19-4-0	26-3-4	30-4-0	34-0-9	38-8-0	40-8-0
2-0-0	4-7-7	3-8-9	4-0-12	6-11-4	6-11-4	4-0-12	3-8-9	4-7-7	2-0-0

Scale = 1:69.5

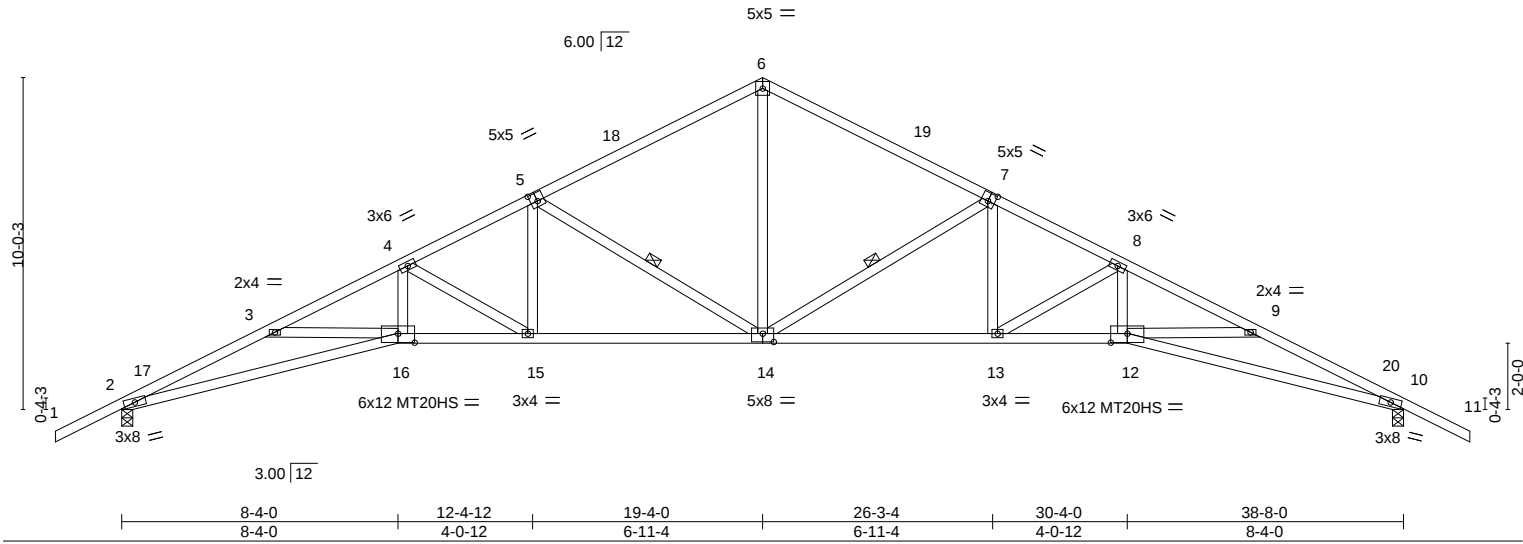


Plate Offsets (X,Y)--	[5:0-2-8,0-3-0], [7:0-2-8,0-3-0], [12:0-6-0,0-3-4], [14:0-4-0,0-3-0], [16:0-6-0,0-3-4]
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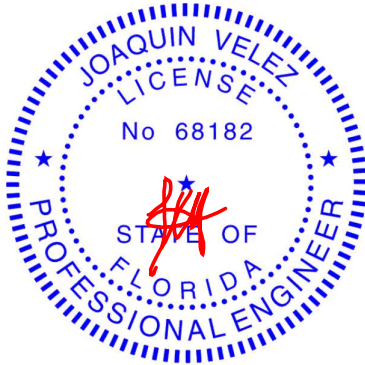
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.85	Vert(LL) -0.45	14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.97	Vert(CT) -0.93	14-15	>495	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.53	Horz(CT) 0.63	10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL) 0.25	14	>999	240		
								Weight: 206 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
2-16,10-12: 2x4 SP M 31 or 2x4 SP SS	WEBS 1 Row at midpt 7-14, 5-14
WEBS 2x4 SP No.2	

REACTIONS.	(size) 2=0-4-0, 10=0-4-0
Max Horz 2=-175(LC 10)	
Max Uplift 2=-128(LC 12), 10=-128(LC 12)	
Max Grav 2=1663(LC 1), 10=1663(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-5166/360, 3-4=-4976/262, 4-5=-3428/246, 5-6=-2243/226, 6-7=-2243/222, 7-8=-3428/253, 8-9=-4976/278, 9-10=-5166/375
BOT CHORD	2-16=-262/4637, 15-16=-112/4336, 14-15=-55/3018, 13-14=-78/3018, 12-13=-142/4336, 10-12=-291/4637
WEBS	6-14=-48/1524, 7-14=-1293/150, 7-13=0/867, 8-13=-1505/74, 8-12=-0/1235, 5-14=-1293/146, 5-15=0/867, 4-15=-1505/66, 4-16=0/1235

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 128 lb uplift at joint 10.



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

April 22,2025

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

MiTek®
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079459
6250379	A02	HIP	2	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

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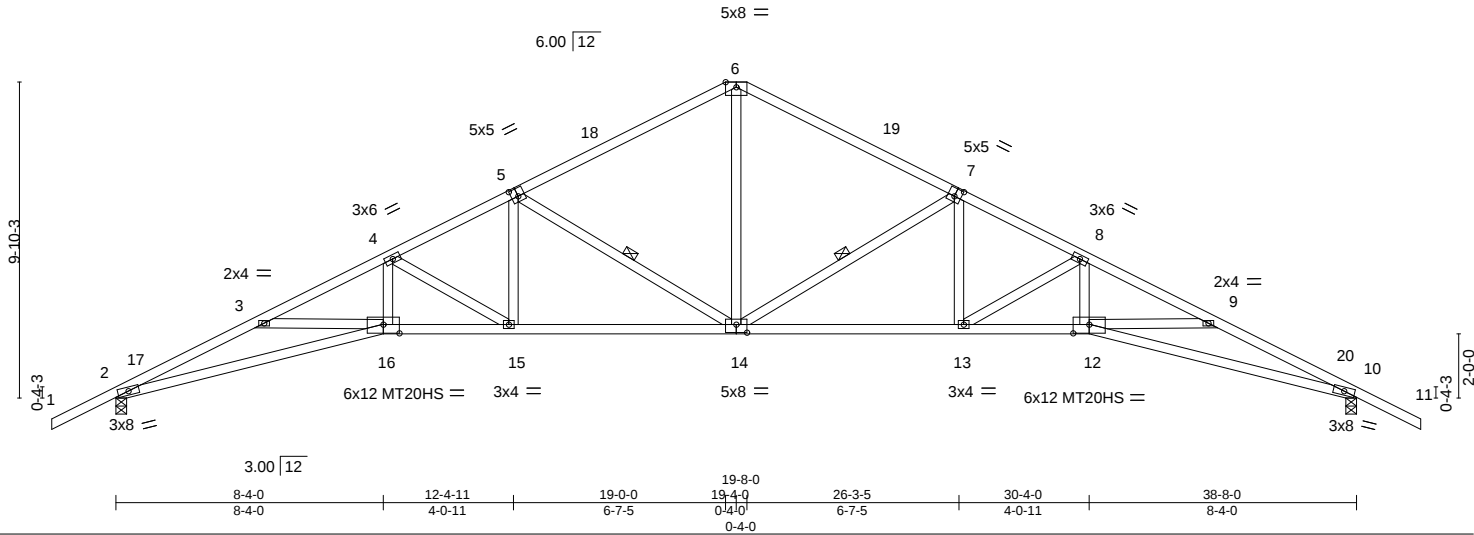
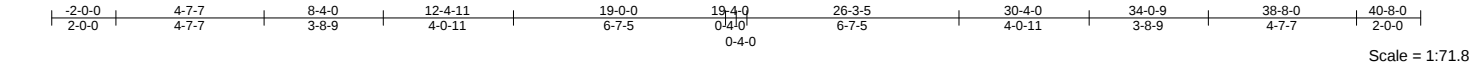


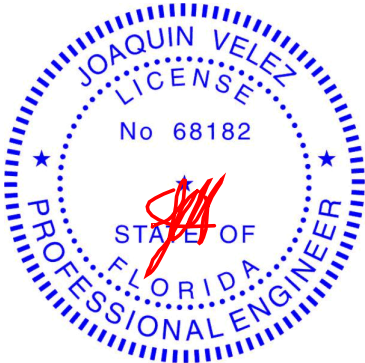
Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [7:0-2-8,0-3-0], [12:0-6-0,0-3-4], [14:0-4-0,0-3-0], [16:0-6-0,0-3-4]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.44	14	>999	360	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.93	14-15	>496	240	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.63	10	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.25	14	>999	240	Weight: 206 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
2-16,10-12: 2x4 SP M 31 or 2x4 SP SS	WEBS 1 Row at midpt 5-14, 7-14
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=175(LC 11)
Max Uplift 2=-128(LC 12), 10=-128(LC 12)
Max Grav 2=1663(LC 1), 10=1663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5159/328, 3-4=-4971/230, 4-5=-3427/218, 5-6=-2242/198, 6-7=-2242/194,
7-8=-3427/223, 8-9=-4971/243, 9-10=-5159/340
BOT CHORD 2-16=-236/4630, 15-16=-87/4332, 14-15=-33/3018, 13-14=-50/3018, 12-13=-111/4332,
10-12=-259/4630
WEBS 4-16=0/1233, 4-15=-1502/65, 5-15=0/866, 5-14=-1293/131, 7-14=-1293/134, 7-13=0/866,
8-13=-1502/71, 8-12=0/1233, 6-14=-40/1523

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 128 lb uplift at joint 10.



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

April 22,2025

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079461
6250379	A04	Hip	1	1		

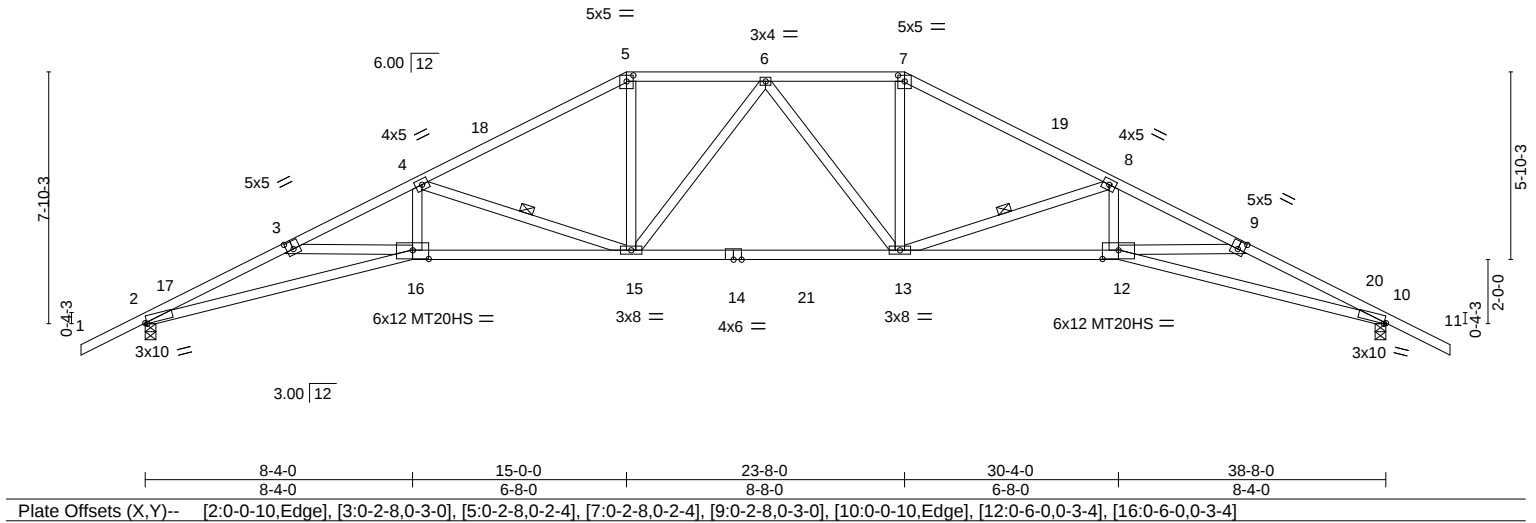
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:10 2025 Page 1

ID:9677KBVwwjNKu0Wl9YrcUzY81Q-1MtDutnNsZ3D7m3rtGxzPtNAXhooMhz32Mj8?bzOSFB

-2-0-0	4-7-7	8-4-0	15-0-0	19-4-0	23-8-0	30-4-0	34-0-9	38-8-0	40-8-0
2-0-0	4-7-7	3-8-9	6-8-0	4-4-0	4-4-0	6-8-0	3-8-9	4-7-7	2-0-0

Scale = 1:71.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.54 13-15 >853	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-1.00 13-15 >461	MT20HS	187/143		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.62 10 n/a				
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.22 12-13 >999	Weight: 202 lb		FT = 20%	

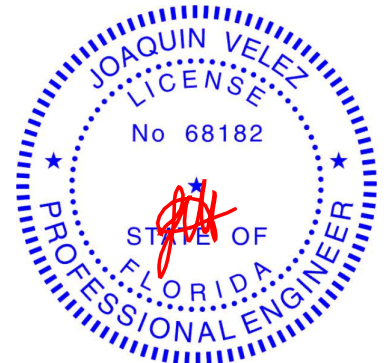
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 3-5,7-9: 2x4 SP M 31 or 2x4 SP SS	TOP CHORD	Structural wood sheathing directly applied or 2-0-12 oc purlins.
BOT CHORD	2x4 SP M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-15, 8-13

REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=-140(LC 10)
Max Uplift 2=-128(LC 12), 10=-128(LC 12)
Max Grav 2=1808(LC 17), 10=1808(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5704/356, 3-4=-5616/306, 4-5=-3182/221, 5-6=-2815/230, 6-7=-2777/234,
7-8=-3146/225, 8-9=-5510/319, 9-10=-5604/367
BOT CHORD 2-16=-259/5248, 15-16=-164/4999, 13-15=-40/2910, 12-13=-187/4801, 10-12=-283/5050
WEBS 4-16=0/1503, 4-15=-2278/173, 5-15=0/1094, 6-15=-309/56, 6-13=-309/56, 7-13=0/1107,
8-13=-2221/180, 8-12=0/1455

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-4-0, Zone1 19-4-0 to 23-8-0, Zone2 23-8-0 to 27-10-15, Zone1 27-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 128 lb uplift at joint 10.



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Date:

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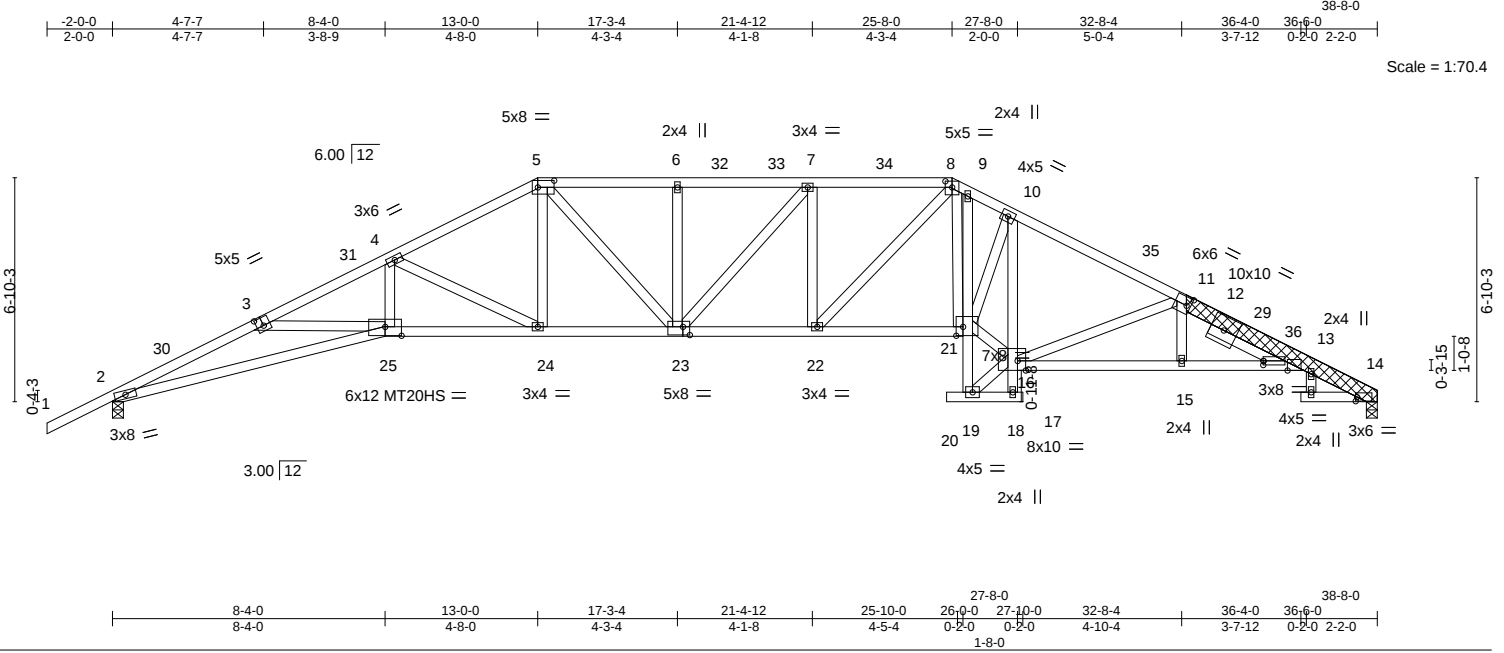
MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079464
6250379	A05T	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:12 2025 Page 1
ID:9677KBVwwjNku0WI9IYrcUzY81Q-zl?_vYodOBjWm3DE?h_RUISXRUQwqX9MWgCF4UzOSF9



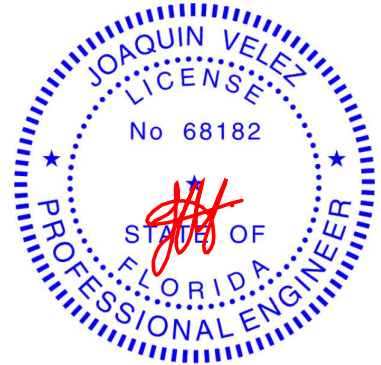
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.66	Vert(LL) -0.42	23	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 1.00	Vert(CT) -0.85	23	>540	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0.57	14	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.24	23	>999	240	Weight: 271 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 11-14: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SP No.2 *Except* 2-25,13-16: 2x4 SP M 31 or 2x4 SP SS	2-2-0 oc bracing: 24-25 6-0-0 oc bracing: 18-19. 6-0-0 oc bracing: 19-21, 16-18
WEBS 2x4 SP No.2	
OTHERS 2x6 SP DSS	
LBR SCAB 11-14 2x6 SP DSS both sides	
SLIDER Right 2x4 SP No.2 2-6-0	

REACTIONS. (size) 14=0-4-0, 2=0-4-0
Max Horz 2=131(LC 11)
Max Uplift 14=-55(LC 12), 2=-126(LC 12)
Max Grav 14=1547(LC 1), 2=1673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5211/431, 3-4=-5030/362, 4-5=-3275/275, 5-6=-3214/288, 6-7=-3214/288,
7-8=-3228/289, 8-9=-3219/268, 9-10=-3417/291, 10-11=-3035/251, 11-13=-4061/291,
13-14=-624/66
BOT CHORD 2-25=-365/4679, 24-25=-243/4391, 23-24=-99/2899, 22-23=-118/3228, 21-22=-87/2906,
9-21=-54/363, 10-16=-1392/73, 15-16=-226/3889, 13-15=-231/3881
WEBS 4-25=-12/1258, 4-24=-1690/161, 5-24=-21/843, 5-23=-47/586, 6-23=-259/87,
7-22=-328/90, 8-21=-31/752, 16-21=-120/3261, 10-21=0/947, 11-16=-1330/130,
8-22=-45/590

- NOTES-**
- 1) Attached 6-8-2 scab 11 to 14, both face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 0-0-5 from end at joint 11, nail 2 row(s) at 7" o.c. for 5-1-1.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-10-6, Zone1 1-10-6 to 13-0-0, Zone2 13-0-0 to 18-5-10, Zone1 18-5-10 to 25-8-0, Zone2 25-8-0 to 31-1-10, Zone1 31-1-10 to 38-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 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.



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

April 22,2025

Continued on page 2

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

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079464
6250379	A05T	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:12 2025 Page 2
ID:9677KBVwwjNku0Wl9lYrcUzY81Q-zl?_vYodOBJwM3DE?h_RUISXRUQwqX9MWgCF4UzOSF9

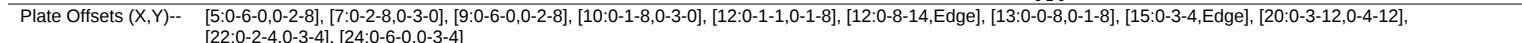
- NOTES-**
- 9) Bearing at joint(s) 14, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 14 and 126 lb uplift at joint 2.

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

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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:13 2025 Page 1
ID:9677KBVvwjgNku0Wl9lYrcUzY81Q-RxZM7upF9USn_DoQYOVg0W?iBuIGZ?EVkXjocwzOSf8
38-8-0
| -2-0-0 | 4-7-7 | 8-4-0 | 11-0-0 | 15-11-5 | 20-10-11 | 26-0-0 | 27-8-0 | 32-8-4 | 36-4-0 | 36-8-0 |
2-0-0 4-7-7 3-8-9 2-8-0 4-11-5 4-11-5 5-1-5 1-8-0 5-0-4 3-7-11 0-2-0 2-2-0
Scale = 1:69.2



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 10-13: 2x6 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD	2x4 SP No.2 *Except* 2-24,12-15: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing. Except: 6-0-0 oc bracing: 18-20, 15-17
WEBS	2x4 SP No.2		
OTHERS	2x6 SP DSS		
LBR SCAB	10-13 2x6 SP DSS one side		
SLIDER	Right 2x4 SP No.2 2-6-0		

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

TOP CHORD 2-3=-5201/442, 3-4=-5020/348, 4-5=-3763/299, 5-6=-4047/320, 6-7=-4161/326,
7-8=-3664/294, 8-9=-3622/290, 9-10=-3029/248, 10-12=-4083/297, 12-13=-624/66

BOT CHORD 2-24=-377/4669, 23-24=-227/4376, 22-23=-134/3373, 21-22=-173/4047, 20-21=-181/4160,
9-15=-1297/58, 14-15=-234/3909, 12-14=-239/3901

WEBS 4-24=-19/1232, 4-23=-1373/125, 5-23=-48/974, 5-22=-68/933, 6-22=-449/101,
7-20=-707/42, 15-20=-104/3169, 9-20=-130/2619, 10-15=-1366/155



1) Attached 6-8-2 scab 10 to 13, back face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-6 from end at joint 10, nail 2 row(s) at 4" o.c. for 5-1-1.

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

3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-10-6, Zone1 1-10-6 to 11-0-0, Zone2 11-0-0 to 16-5-10, Zone1 16-5-10 to 27-8-0, Zone2 27-8-0 to 33-1-10, Zone1 33-1-10 to 38-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

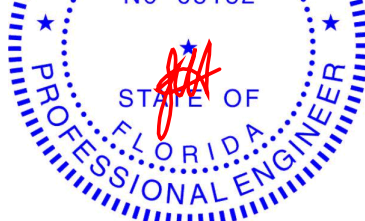
5) Provide adequate drainage to prevent water ponding.

6) All plates are MT20 plates unless otherwise indicated.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

9) Bearing at joint(s) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: April 22,2025



April 22, 2025

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079465
6250379	A06	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:13 2025 Page 2
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NOTES-
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2 and 55 lb uplift at joint 13.

 **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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ID:9677KBVwvjNku0W9IYrcUzY81Q-w77kKEquwoaebNND660vZjXokl8QlPHfzhM8MzOSF7
38-8-0
| -2-0-0 | 4-7-7 | 9-0-0 | 12-8-8 | 17-1-0 | 21-5-8 | 26-0-0 | 27-8-0 | 29-8-0 | 32-8-4 | 36-4-0 | 36-6-0 |
| 2-0-0 | 4-7-7 | 4-4-9 | 3-8-8 | 4-4-8 | 4-4-8 | 4-6-8 | 1-8-0 | 2-0-0 | 3-0-4 | 3-7-12 | 0-2-0 | 2-2-0 |
Scale = 1:69.2

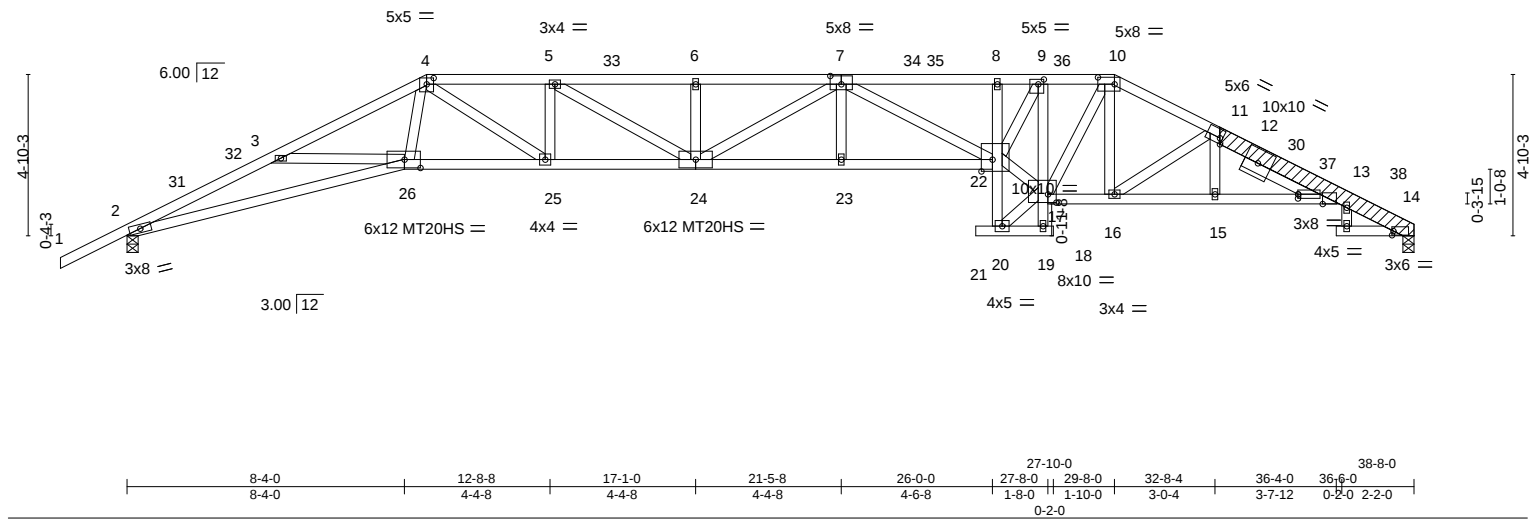


Plate Offsets (X,Y)-- [4:0-2-8,0-2-4], [7:0-4-0,0-3-0], [9:0-2-0,0-1-12], [10:0-6-0,0-2-8], [11:Edge,0-2-0], [13:0-0-1,0-1-8], [13:0-8-13,Edge], [14:0-0-8,0-1-8], [17:0-3-0,0-3-0], [22:0-4-0,0-4-4], [26:0-5-12,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL 1.25		TC	0.99	Vert(LL)	-0.70	23-24	>658	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.80	Vert(CT)	-1.41	23-24	>326	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr YES		WB	0.93	Horz(CT)	0.74	14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.41	23-24	>999	240	Weight: 235 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 11-14: 2x6 SP DSS
BOT CHORD	2x4 SP No.2 *Except* 2-26,24-26,13-17,22-24: 2x4 SP M 31 or 2x4 SP SS
WEBS	2x4 SP No.2
OTHERS	2x6 SP DSS
LBR SCAB	11-14 2x6 SP DSS one side
SLIDER	Right 2x4 SP No.2 2-6-0

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

REACTIONS. (size) 2=0-4-0, 14=0-4-0
 Max Horz 2=95(LC 11)
 Max Uplift 2=-126(LC 12), 14=-55(LC 12)
 Max Grav 2=1673(LC 1), 14=1547(LC 1)

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

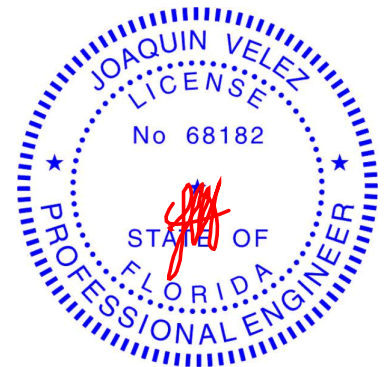
TOP CHORD 2-3=-5216/455, 3-4=-4976/316, 4-5=-5081/359, 5-6=-5694/393, 6-7=-5694/393,
7-8=-5075/363, 8-9=-4997/359, 9-10=-3367/276, 10-11=-3330/263, 11-13=-4038/284,
13-14=-624/66

BOT CHORD 2-26=-391/4685, 25-26=-182/4075, 24-25=-238/5081, 23-24=-276/5745, 22-23=-276/5745,
9-17=-3061/173, 16-17=-125/2940, 15-16=-210/3857, 13-15=-214/3849

WEBS 4-26=-20/1301, 4-25=-95/1302, 5-25=-649/99, 5-24=-39/783, 6-24=-256/71,
7-22=-844/48, 17-22=-182/4115, 9-22=-173/3399, 10-17=-58/883, 10-16=-28/596,
11-16=-1092/117

NOTES-

- 1) Attached 6-8-2 scab 11 to 14, back face(s) 2x6 SP DSS with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 0-0-5 from end at joint 11, nail 2 row(s) at 4" o.c. for 5-1-1.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-10-6, Zone1 1-10-6 to 9-0-0, Zone2 9-0-0 to 14-5-10, Zone1 14-5-10 to 29-8-0, Zone2 29-8-0 to 35-1-10, Zone1 35-1-10 to 38-6-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide connects between the bottom chord and any other members.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

April 22, 2025

Con will fit between the bottom chord and any other members.



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Chesterfield, MO 63017
314.434.1200 / MiTek-LLS.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079466
6250379	A07	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:14 2025 Page 2
ID:9677KBVwwjNku0WI9lYrcUzY81Q-w77kKEquwoaebNNd660vZjXokl8QIPHfzzhM8MzOSF7

- NOTES-**
- 10) Bearing at joint(s) 2, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 2 and 55 lb uplift at joint 14.

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

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079467
6250379	A08	Hip Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:15 2025 Page 2
ID:9677KBVwwjNKu0Wl9lYrcUzY8lQ-OKg6YarWh6iVDXypgpX86x41Miba10UoCdQvhpzOSF6

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 393 lb down and 229 lb up at 7-0-0, 122 lb down and 83 lb up at 9-0-12, 122 lb down and 83 lb up at 11-0-12, 127 lb down and 85 lb up at 13-0-12, 127 lb down and 85 lb up at 15-0-12, 127 lb down and 85 lb up at 17-0-12, 127 lb down and 85 lb up at 19-0-12, 127 lb down and 85 lb up at 19-7-4, 127 lb down and 85 lb up at 21-7-4, 127 lb down and 85 lb up at 23-7-4, 122 lb down and 83 lb up at 25-7-4, 122 lb down and 83 lb up at 27-7-4, and 105 lb down and 62 lb up at 29-7-4, and 296 lb down and 164 lb up at 31-8-0 on top chord, and 226 lb down at 7-3-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 95 lb down at 27-10-0, and 81 lb down at 29-7-4, and 344 lb down at 31-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-10=-60, 10-11=-60, 11-13=-60, 2-26=-20, 25-26=-20, 22-25=-20, 19-21=-20, 18-19=-20, 11-17=-20, 14-15=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 4=-346(B) 10=-249(B) 26=-215(B) 18=-48(B) 9=-122(B) 8=-122(B) 16=-344(B) 27=-122(B) 29=-122(B) 30=-127(B) 31=-127(B) 32=-127(B) 33=-127(B) 34=-127(B) 35=-127(B) 36=-127(B) 38=-100(B) 39=-48(B) 40=-48(B) 42=-72(B)

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

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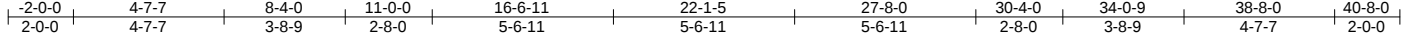
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079468
6250379	A09	Hip	1	1	Job Reference (optional)	

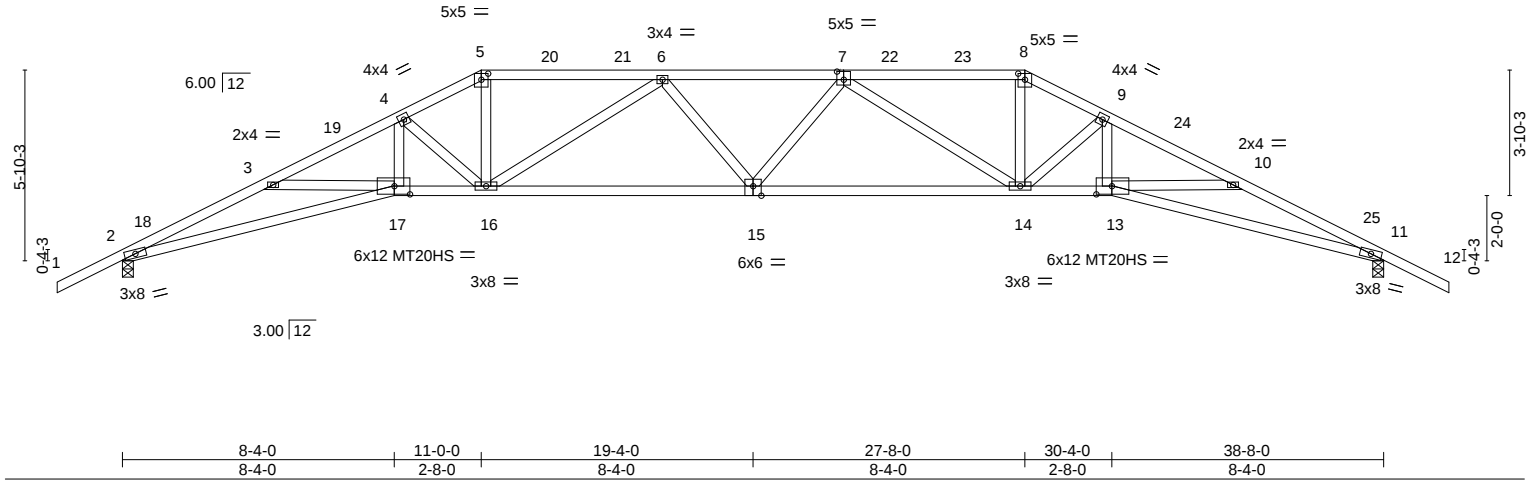
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:16 2025 Page 1

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Scale = 1:70.6



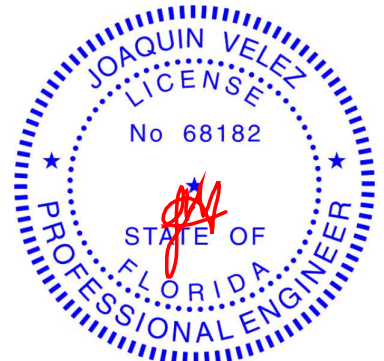
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.51 15 >895 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-1.05 15-16 >437 240	MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.63 11 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.28 15 >999 240				
								Weight: 195 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 M 31 or 2x4 SP SS	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-4-0, 11=0-4-0
Max Horz 2=107(LC 11)
Max Uplift 2=-128(LC 12), 11=-128(LC 12)
Max Grav 2=1663(LC 1), 11=1663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5163/376, 3-4=-4978/284, 4-5=-3747/248, 5-6=-3380/236, 6-7=-4100/266,
7-8=-3380/243, 8-9=-3747/256, 9-10=-4978/296, 10-11=-5163/388
BOT CHORD 2-17=-279/4634, 16-17=-134/4340, 15-16=-140/4033, 14-15=-139/4033, 13-14=-158/4340,
11-13=-303/4634
WEBS 4-17=-7/1206, 4-16=-1341/107, 5-16=-46/1432, 6-16=-892/94, 7-14=-892/94,
8-14=-50/1432, 9-14=-1341/112, 9-13=-13/1206

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) 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 27-8-0, Zone2 27-8-0 to 31-10-15, Zone1 31-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.



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

April 22,2025

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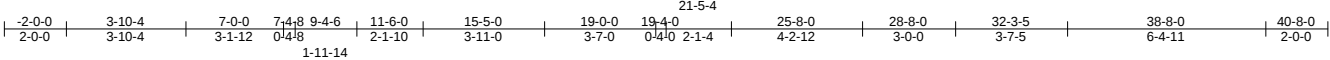


Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079470
6250379	A11	Roof Special Girder	1	3	Job Reference (optional)	

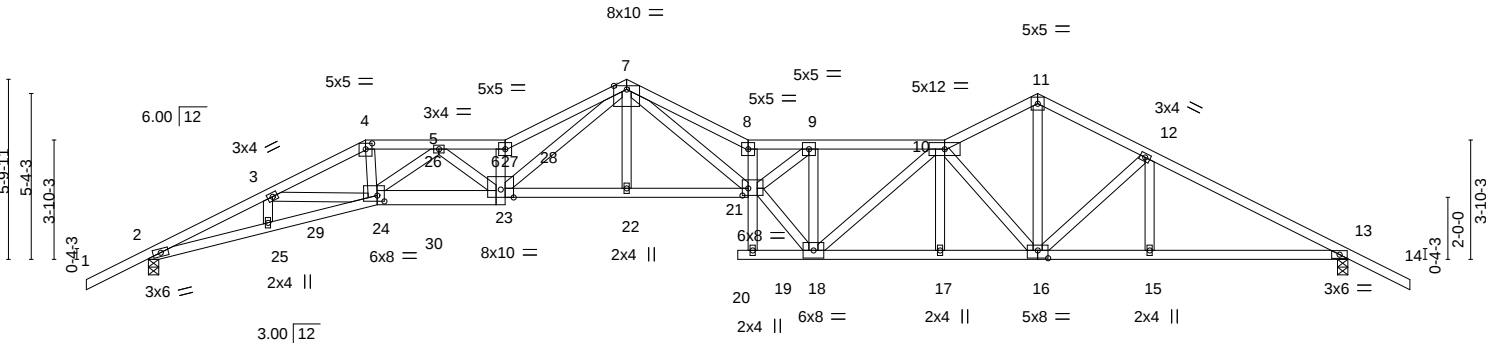
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:17 2025 Page 1

ID:9677KBVvwjNKu0Wl9lYrcUzY81Q-KiotyGsmDjyDSr5BnEZcBM9PiVCLVrm5fxv0lhOSF4



Scale = 1:74.3



0-4-0	3-10-4	7-0-0	7-4-8	11-6-0	13-0-0	15-5-0	19-0-0	19-4-0	25-8-0	28-8-0	32-3-5	38-8-0	
0-4-0	3-6-4	3-1-12	0-4-8	4-1-8	0-6-0	3-5-0	3-7-0	0-4-0	4-2-12	3-0-0	3-7-5	6-4-11	

Plate Offsets (X,Y)-- [4:0-2-8,0-2-4], [16:0-4-0,0-3-0], [21:0-2-4,0-2-12], [24:0-2-12,0-2-4]

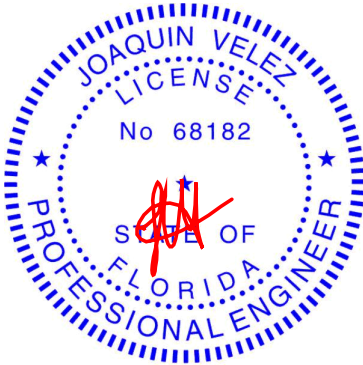
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.53	20	>864	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-1.08	20	>426	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.38	13	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.31	20	>999	240	Weight: 666 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-7-6 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-4-0, 13=0-4-0
Max Horz 2=-106(LC 6)
Max Uplift 2=-142(LC 8), 13=-133(LC 8)
Max Grav 2=2303(LC 1), 13=1838(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7439/141, 3-4=-7655/204, 4-5=-7490/188, 5-6=-9781/309, 6-7=-11442/402, 7-8=-12767/438, 8-9=-11223/359, 9-10=-4913/222, 10-11=-2883/155, 11-12=-2909/156, 12-13=-3260/121
BOT CHORD 2-25=-56/6654, 24-25=-63/6739, 23-24=-179/8763, 17-18=-75/4287, 16-17=-77/4285, 15-16=-20/2816, 13-15=-20/2816, 22-23=-33/5231, 21-22=-32/5224
WEBS 5-24=-1714/148, 8-21=-5663/228, 7-22=0/393, 4-24=0/3036, 3-24=-81/472, 7-23=-241/6714, 6-23=-5261/255, 7-21=-285/8318, 9-18=-4964/158, 10-18=-35/816, 18-21=-136/6554, 9-21=-171/7846, 12-16=-370/44, 11-16=-92/2361, 10-16=-2689/126, 5-23=-15/1336

- NOTES-**
- 3-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: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



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

April 22,2025

Continued on page 32

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079470
6250379	A11	Roof Special Girder	1	3	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:17 2025 Page 2
ID:9677KBVwwjNku0WI9lYrcUzY81Q-KiotyGsmDjyDSr5BnEZcBM9PiVCLVrm5fxv0lhOSF4

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 301 lb down and 171 lb up at 7-0-0, and 162 lb down and 83 lb up at 9-0-12, and 162 lb down and 85 lb up at 11-0-12 on top chord, and 312 lb down at 7-0-0, and 95 lb down at 9-0-12, and 95 lb down at 11-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 8-10=-60, 10-11=-60, 11-14=-60, 2-24=-20, 21-24=-20, 13-20=-20

Concentrated Loads (lb)

Vert: 4=-204(F) 23=-48(F) 26=-122(F) 28=-122(F) 29=-263(F) 30=-48(F)

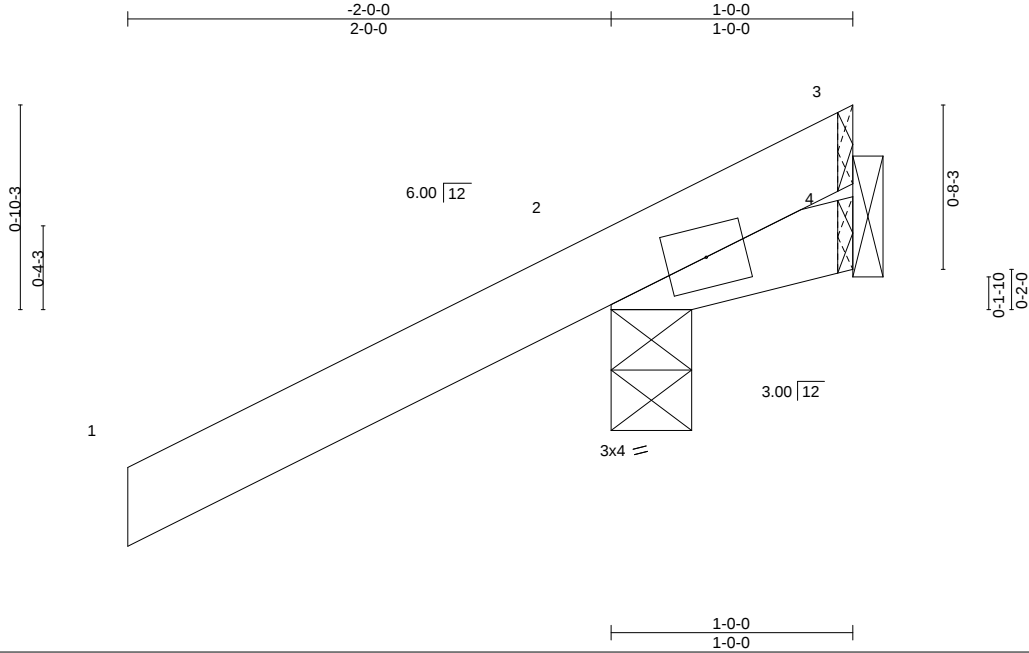
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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079472
6250379	C1V	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:18 2025 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-ouMFActOz1444_gOLx5rjZifuvfrDRmEubfZH8zOSF3



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 0.28	Vert(LL)	0.00 2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.20	Vert(CT)	0.00 2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-P					Weight: 7 lb	FT = 20%

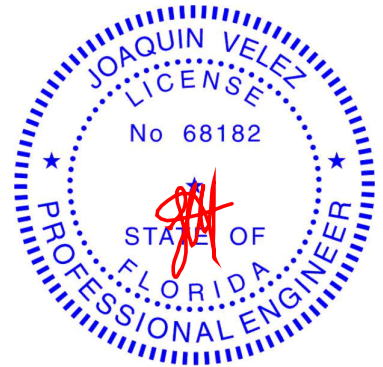
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=0-4-0, 4=Mechanical
Max Horz 2=81(LC 12)
Max Uplift 2=-218(LC 12), 4=-91(LC 1)
Max Grav 2=290(LC 1), 4=94(LC 12)

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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=218.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
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Date:

April 22,2025

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079473
6250379	C3T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:19 2025 Page 1
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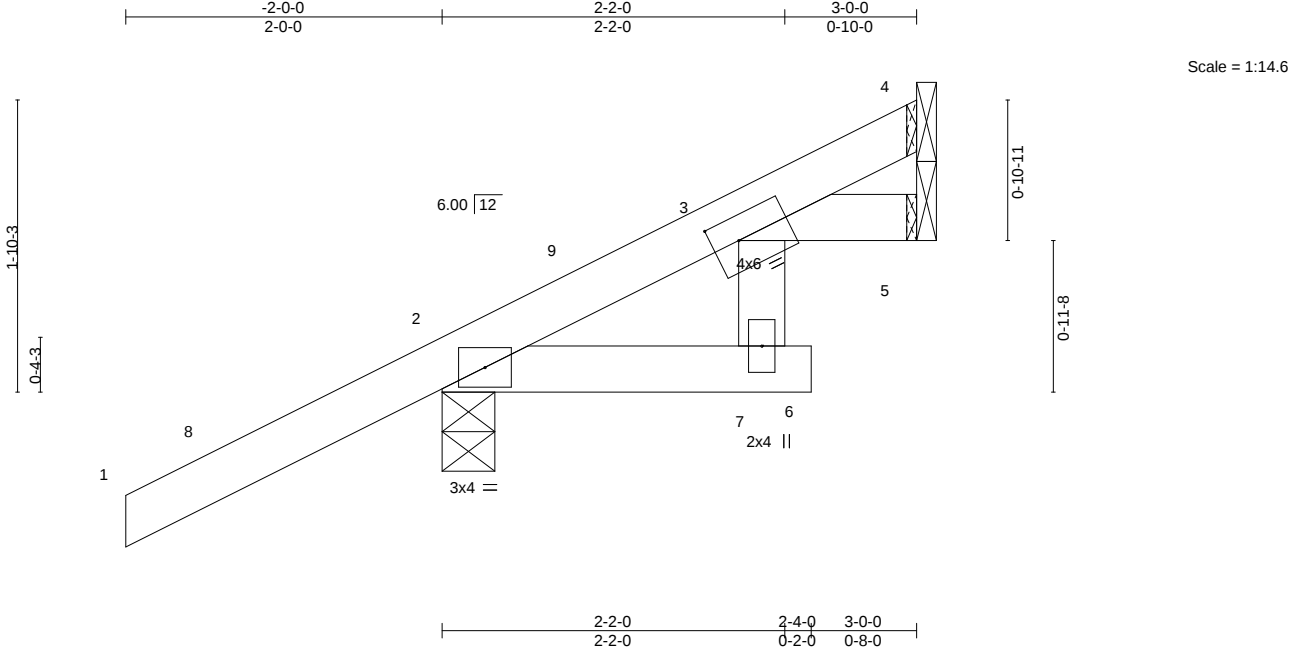


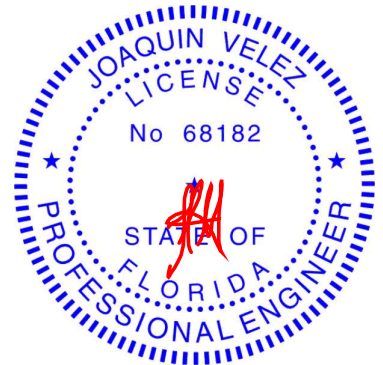
Plate Offsets (X,Y)--		[3:0-2-0,0-1-13]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-R		Wind(LL)	-0.01	7	>999	240	Weight: 15 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 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 4=-2(LC 9), 2=-84(LC 12)
Max Grav 4=41(LC 17), 2=295(LC 1), 5=46(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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever 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) 4, 2.



Joaquin Velez PE No.68182
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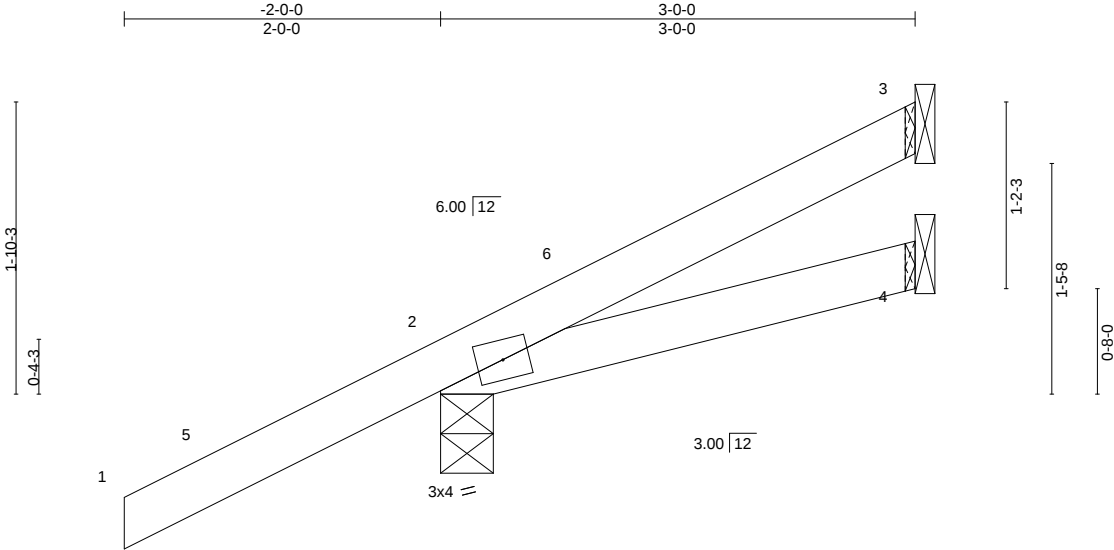
Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079474
6250379	C3V	Corner Jack	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),

Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:19 2025 Page 1

ID:9677KBVwwjNku0Wl9lYrcUzY81Q-G5wdNyu0kKxi8Favfc4GnFppJ1oyt0O7FO6qazOSF2



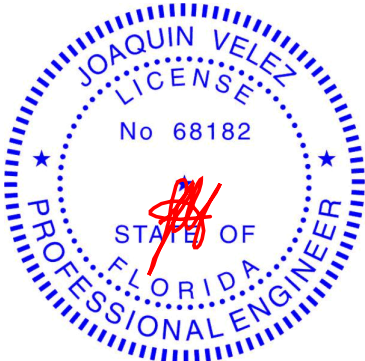
LOADING (psf)	SPACING-		CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.33		Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09		Vert(CT)	-0.01	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	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=0-4-0, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=35(LC 17), 2=292(LC 1), 4=55(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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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April 22,2025

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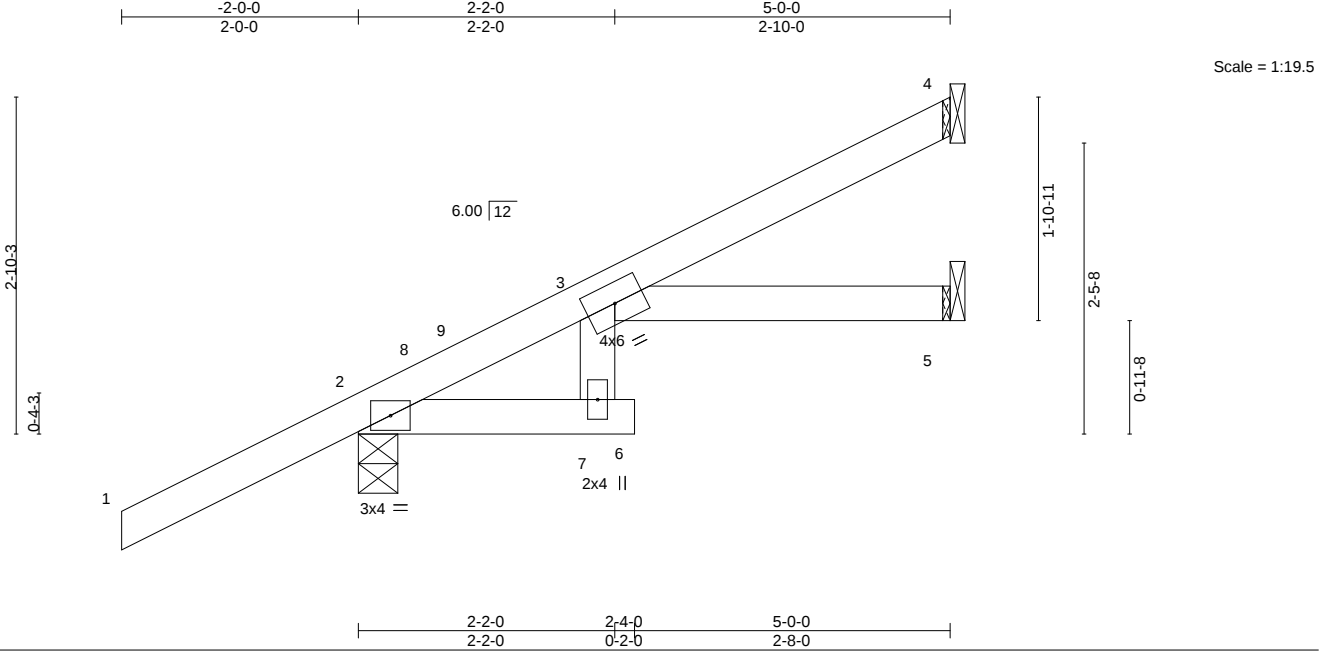
16023 Swingley Ridge Rd.

Chesterfield, MO 63017

314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079475
6250379	C5T	Corner Jack	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:19 2025 Page 1
ID:9677KBVwwjNKu0WI9IYrcUzY81Q-G5wdNyu0kKCxi8Favrc4GnFqzJ?kyt0O7FO6qazOSF2



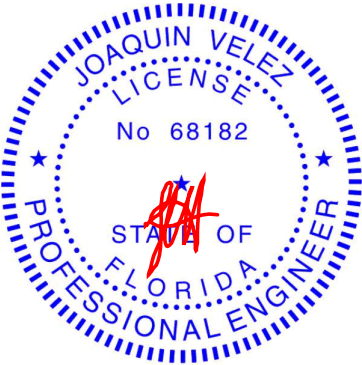
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) -0.02	6	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.22	Vert(CT) -0.06	6	>945	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.03	5	n/a	n/a			
BCDL 10.0	Code FBC2023/TPI2014	Matrix-R	Wind(LL) 0.04	6	>999	240		Weight: 21 lb	FT = 20%

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

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 4=-21(LC 12), 2=-69(LC 12)
Max Grav 4=102(LC 1), 2=354(LC 1), 5=82(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; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; cantilever 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) 4, 2.



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

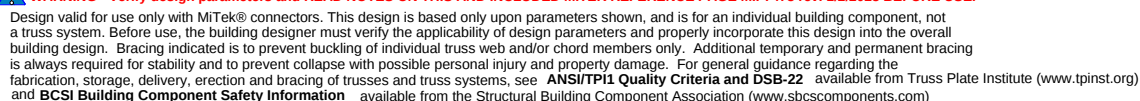
April 22,2025

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Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:20 2025 Page 1
 ID:9677KBVwwjNKu0W9lYrcUzY81Q-kHU?blveVeKoKlqmTM7Jp_n?ojj_hKGXlv8gM0zOSF1
 2-0-0 5-0-0
 2-0-0 5-0-0



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ID:9677KBVwwjNkUOWI9YrcUzY81Q-kHU?blveVeKoKlqmTM7Jp_nz5JE8hkZXLv8gM0zOSF1

The diagram illustrates a roof truss system with the following components:

- Members:**
 - 1: Left roof slope.
 - 2: Horizontal tie beam.
 - 3: Vertical central post.
 - 4: Right roof slope.
 - 5: Right roof slope extension.
 - 6: Horizontal base beam.
 - 7: Left roof slope extension.
 - 8: Right roof slope extension.
- Joints:**
 - 1: Top-left joint.
 - 2: Joint between members 1 and 2.
 - 3: Top-right joint.
 - 4: Joint between members 3 and 4.
 - 5: Bottom-right joint.
 - 6: Joint between members 2 and 6.
 - 7: Joint between members 6 and 8.
 - 8: Joint between members 4 and 8.
- Supports and Connections:**
 - Support 1: 2x4 =, 3x6 || (at joint 2).
 - Support 2: 2x4 || (at joint 6).
 - Support 3: 3x6 || (at joint 7).
 - Support 4: 2x4 = (at joint 8).
- Dimensions:**
 - Vertical height: 2.5-11.
 - Horizontal distance: 6.00 | 12.
- Labels:**
 - 4x4 = (at top joint 3).
 - 2x4 = (at joint 2).
 - 3x6 || (at joint 7).
 - 2x4 || (at joint 6).
 - 3x6 || (at joint 7).
 - 2x4 = (at joint 8).

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-371/199, 3-4=-371/199
 BOT CHORD 2-6=-40/264, 4-6=-40/264

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. C, Gcpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed ; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=145. 4=145.



April 22, 2025

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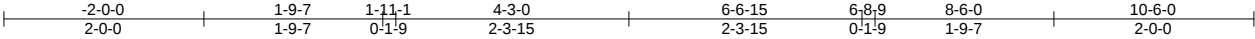
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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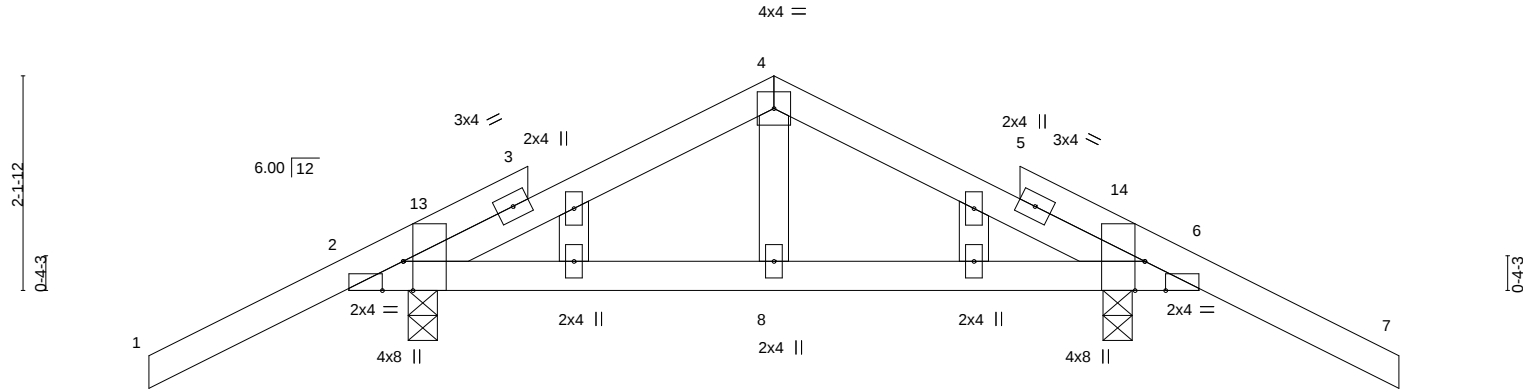
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-USA.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079478
6250379	E01X	GABLE	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:21 2025 Page 1
ID:9677KBVwwjNku0W9lYrcUzY81Q-CT2OodvHGySfxSPz04eYLBK8_6aBQnphaZtDuSzosFO



Scale = 1:23.0



0-7-2	1-9-7	1-11-1	4-3-0	6-6-15	6-8-9	7-10-0	8-6-0
0-7-2	1-2-6	0-1-9	2-3-15	2-3-15	0-1-9	1-1-7	0-8-0

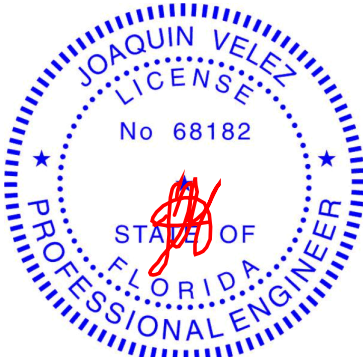
Plate Offsets (X,Y)--		[2:0-3-8,Edge], [2:0-2-8,Edge], [6:0-3-8,Edge], [6:0-2-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	in	(loc)	I/defl	L/d	MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(LL)	-0.01	2-8	>999		244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Vert(CT)	-0.02	2-8	>999		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Horz(CT)	0.00	6	n/a		
						Wind(LL)	0.01	2-8	>999	Weight: 42 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=46(LC 11)
Max Uplift 2=-145(LC 12), 6=-145(LC 12)
Max Grav 2=457(LC 1), 6=457(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-393/212, 4-6=-393/212
BOT CHORD 2-8=-73/308, 6-8=-73/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=145, 6=145.



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

April 22,2025

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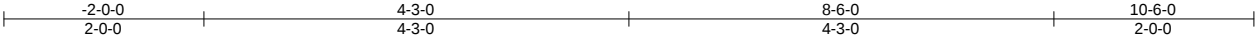
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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079479
6250379	E02	Common	3	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:21 2025 Page 1
ID:9677KBVwwjNku0Wl9lYrcUzY81Q-CT2OodvHGySfxSPz04eYLBK6K6ZUQnphaZtDuSzosFO



Scale = 1:23.0

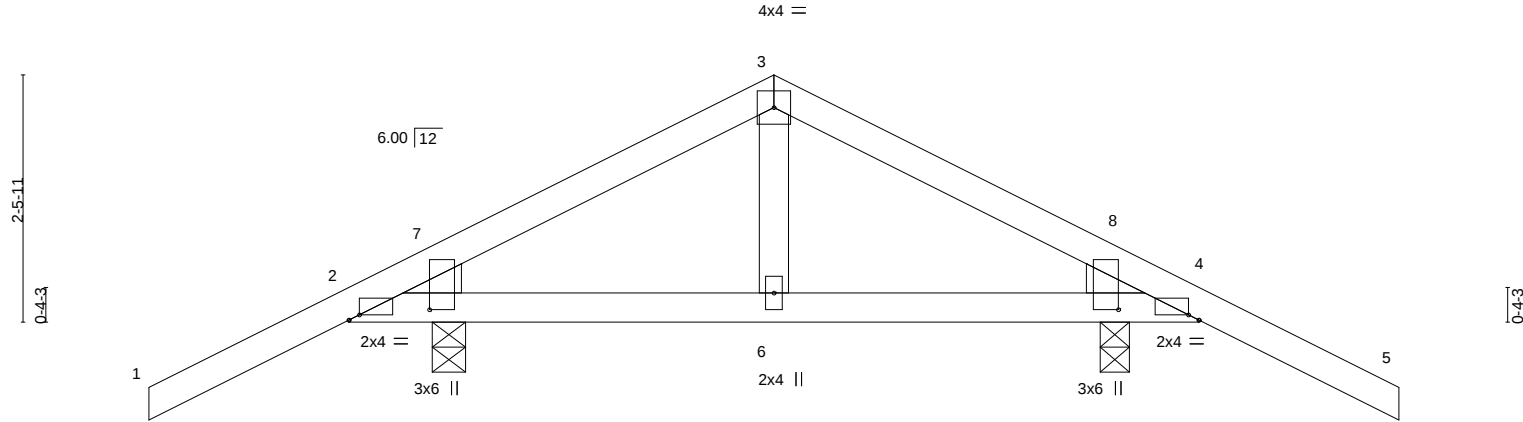


Plate Offsets (X,Y)--	[2:0-1-4,Edge], [2:0-1-4,0-9-11], [4:0-1-4,Edge], [4:0-1-4,0-9-11]
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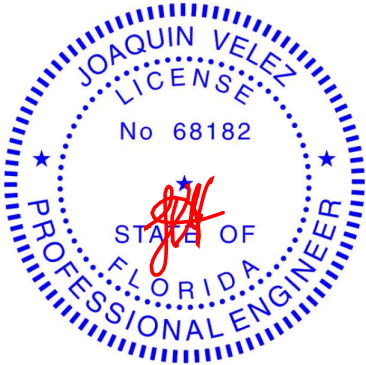
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.01	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.02	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.01	4-6	>999	240	Weight: 38 lb	FT = 20%

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

REACTIONS. (size) 2=0-4-0, 4=0-3-8
Max Horz 2=51(LC 11)
Max Uplift 2=-146(LC 12), 4=-145(LC 12)
Max Grav 2=458(LC 1), 4=456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-370/198, 3-4=-369/198
BOT CHORD 2-6=-38/262, 4-6=-38/262

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-3-0, Zone2 4-3-0 to 8-4-4, Zone1 8-4-4 to 10-6-0 zone; cantilever left and right exposed ; 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=146, 4=145.



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

April 22,2025

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079480
6250379	E03	Common	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:21 2025 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-CT2OodvHGySfxSPz04eYLBK806ceQnphaZtDuSzsOSFO

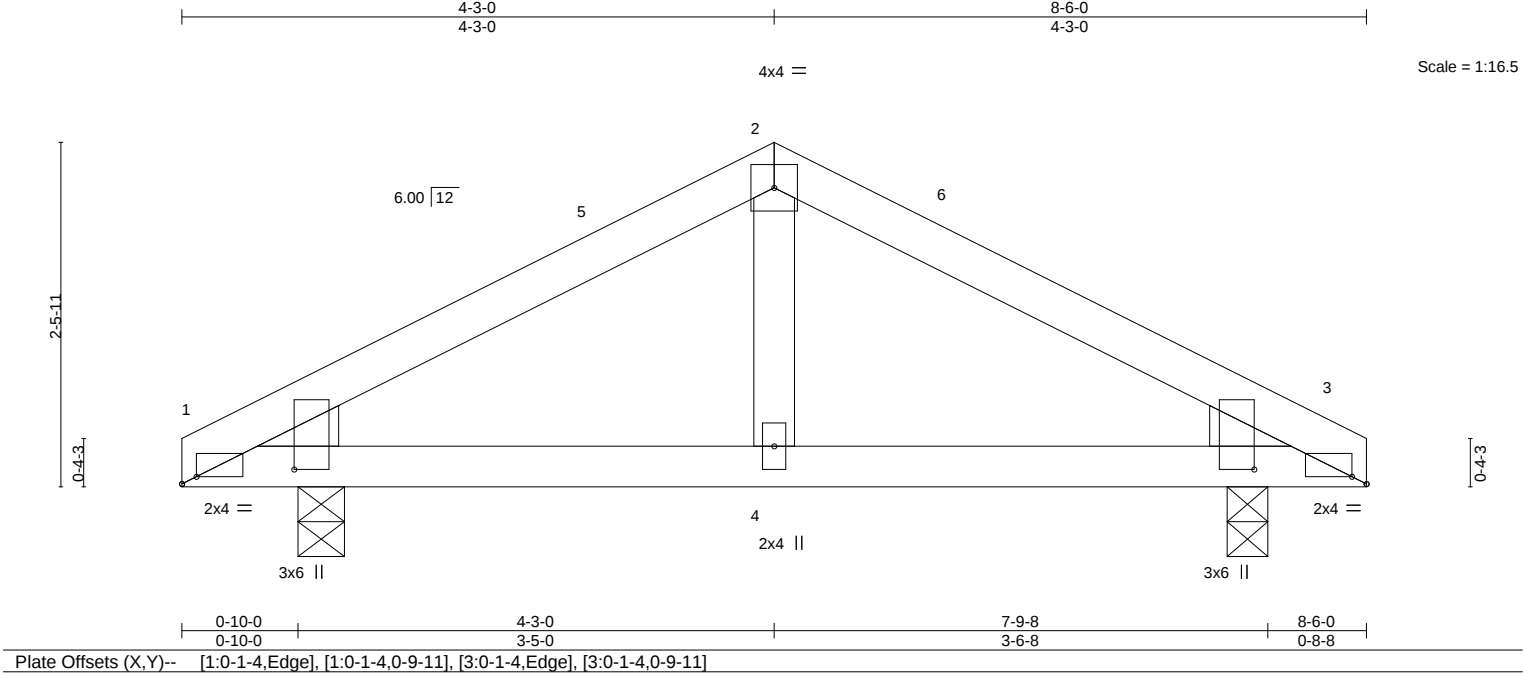


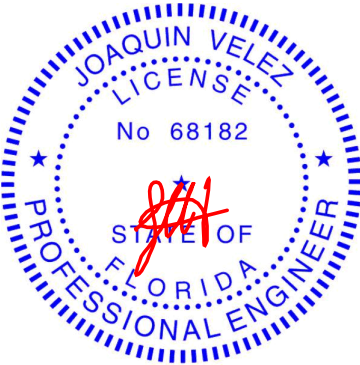
Plate Offsets (X,Y)--		[1:0-1-4,Edge], [1:0-1-4,0-9-11], [3:0-1-4,Edge], [3:0-1-4,0-9-11]							
0-10-0		4-3-0		7-9-8		8-6-0			
0-10-0		3-5-0		3-6-8		0-8-8			
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL 20.0		2-0-0		TC 0.35		in (loc) l/defl L/d		MT20	
TCDL 10.0		Plate Grip DOL 1.25		BC 0.51		Vert(LL) -0.01 3-4 >999 360		GRIP	
BCLL 0.0 *		Lumber DOL 1.25		WB 0.05		Vert(CT) -0.02 3-4 >999 240		244/190	
BCDL 10.0		Rep Stress Incr YES		Matrix-P		Horz(CT) 0.00 3 n/a n/a			
		Code FBC2023/TPI2014				Wind(LL) 0.01 3-4 >999 240		Weight: 32 lb	
								FT = 20%	

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

REACTIONS. (size) 1=0-4-0, 3=0-3-8
Max Horz 1=36(LC 11)
Max Uplift 1=-85(LC 12), 3=-85(LC 12)
Max Grav 1=328(LC 1), 3=328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-414/296, 2-3=-414/280
BOT CHORD 1-4=-172/326, 3-4=-172/326

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 4-3-0, Zone3 4-3-0 to 8-4-4 zone; cantilever left and right exposed ; 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) 1, 3.



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

April 22,2025

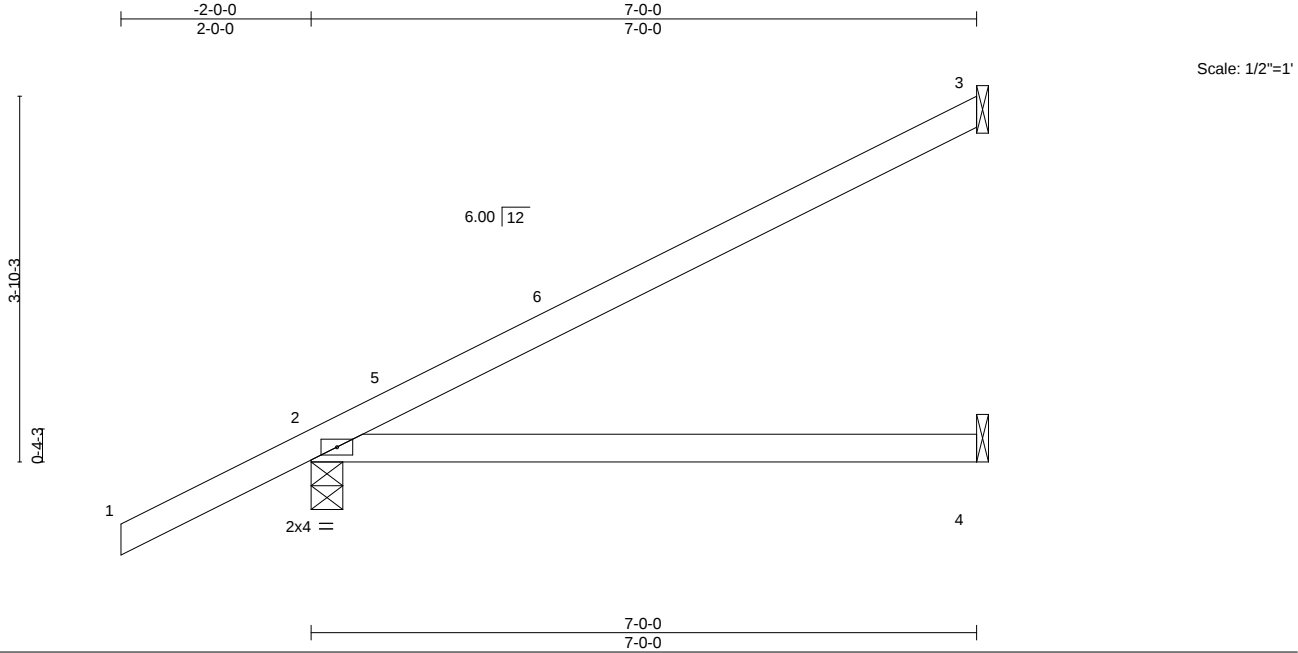
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079481
6250379	E7	Jack-Open	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:22 2025 Page 1
ID:9677KBVwwjNku0W9lYrcUzY81Q-hgbm0zwv1FaWZc_9an9nuPtD8WwU9EmqpDdnRvzOSF?



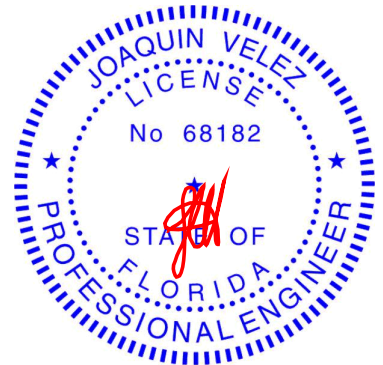
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.13	2-4	>645	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25	2-4	>322	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 26 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

April 22,2025

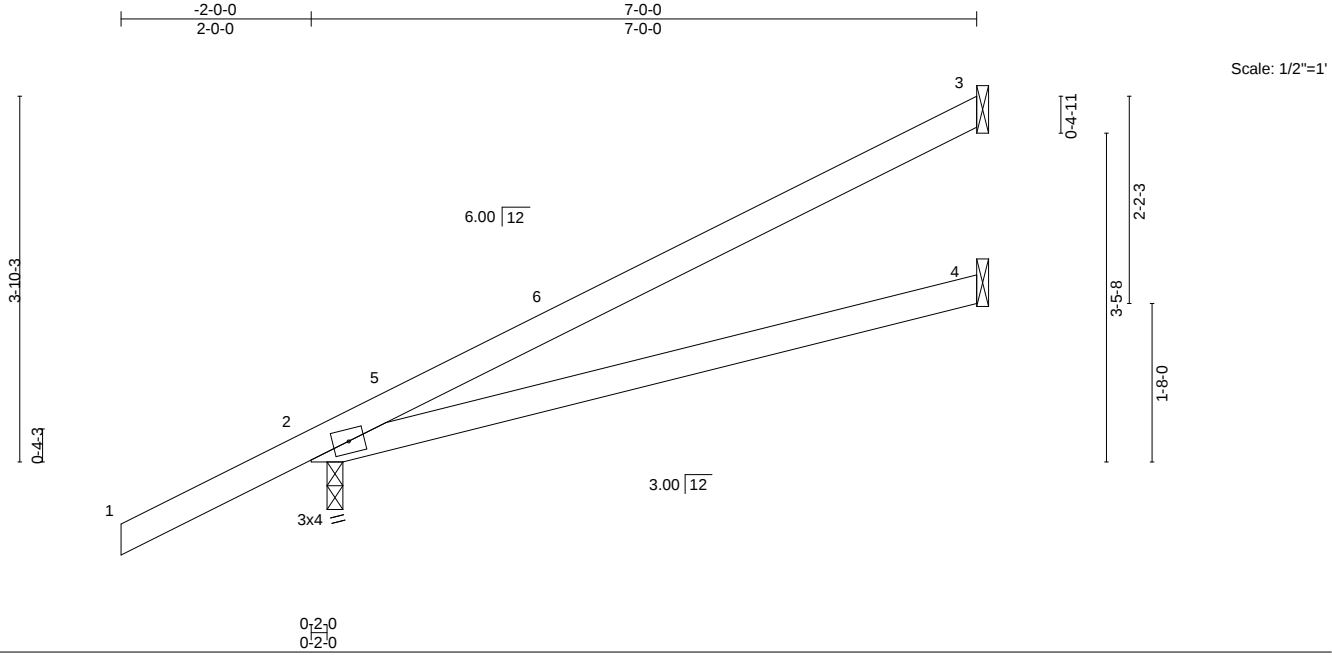
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079482
6250379	E7A	Jack-Open	7	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:22 2025 Page 1
ID:9677KBVwwjNku0W9lYrcUzY81Q-hgbm0zww1FaWZc_9an9nuPtDbWwB9EmqpDdnRvzOSF?



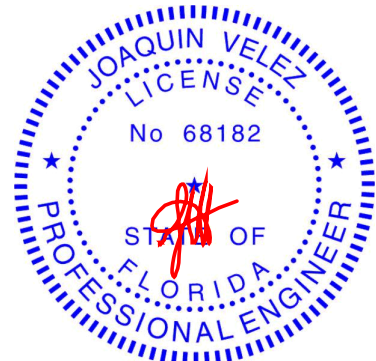
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.74	Vert(LL)	-0.14	2-4	>603	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.62	Vert(CT)	-0.27	2-4	>301		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	2	****	Weight: 26 lb	FT = 20%
	Code FBC2023/TPI2014							

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

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 2=0-2-0
Max Horz 2=118(LC 12)
Max Uplift 3=-64(LC 12), 2=-60(LC 12)
Max Grav 3=187(LC 1), 4=137(LC 3), 2=418(LC 1)

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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

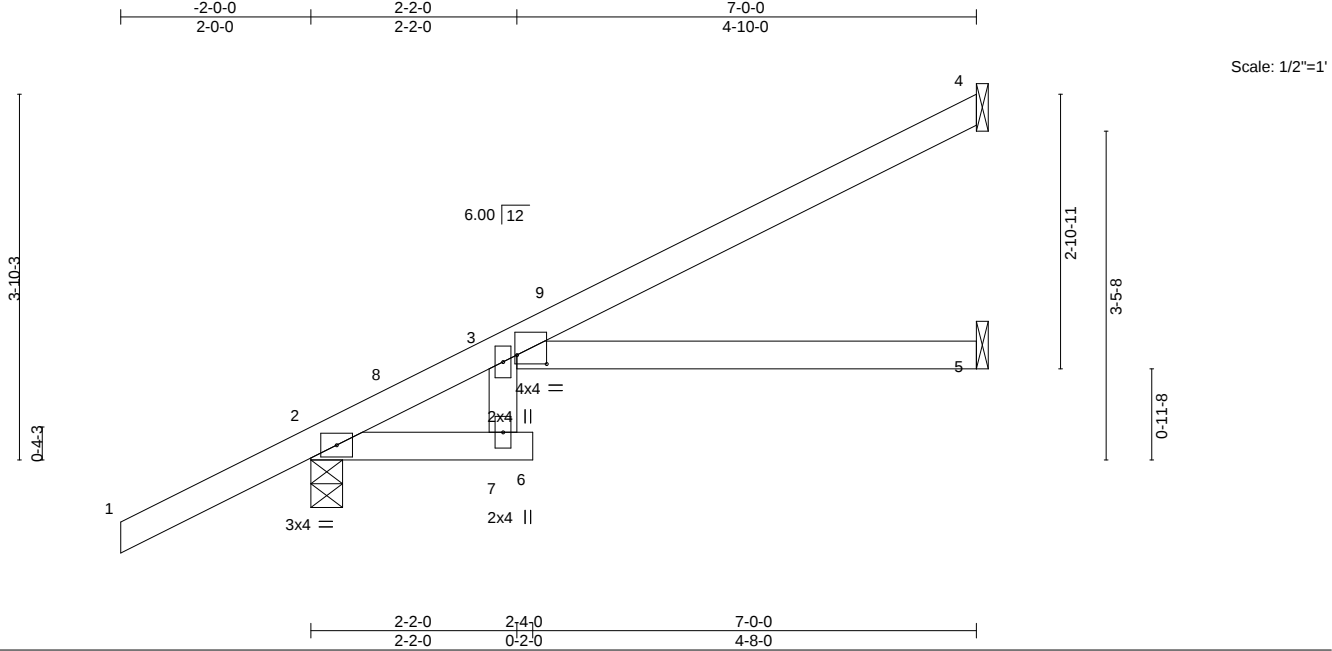
April 22,2025

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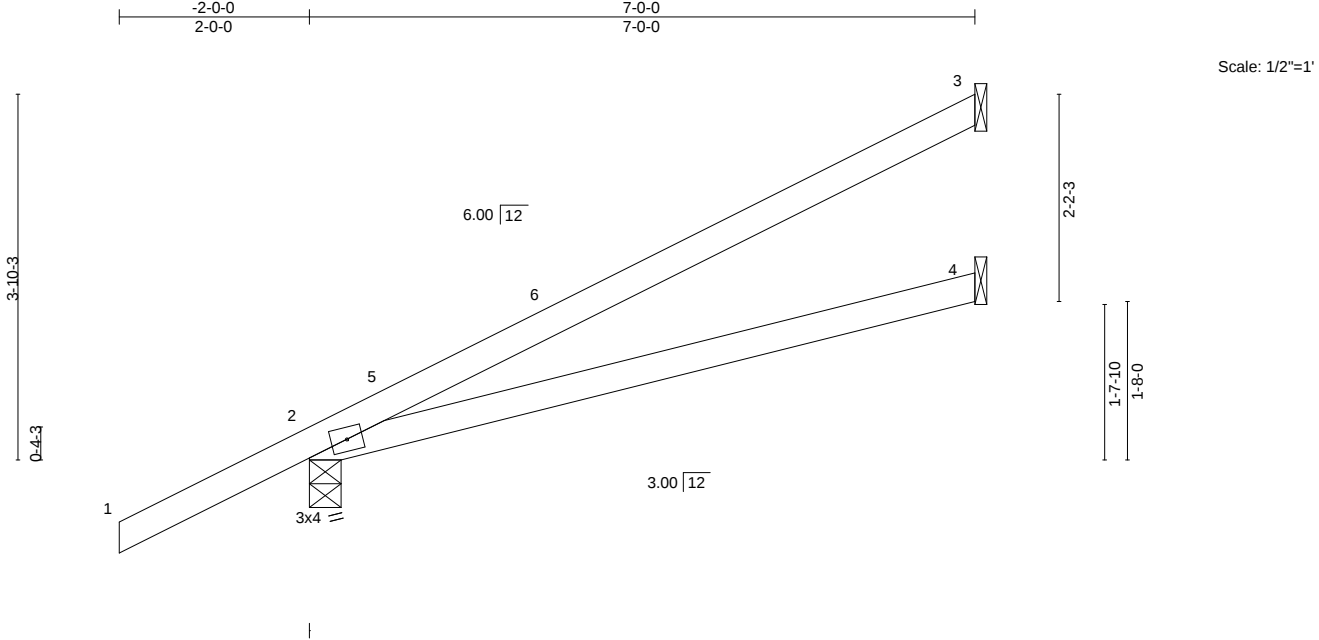
Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079483
6250379	E7T	Jack-Open	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:23 2025 Page 1
ID:9677KBVwwjNku0Wl9lYrcUzY81Q-9s98DJxXoZiNBmZL8Vg0QcPRBwHuu0z2tMKzLzOSF_



Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079484
6250379	E7V	Jack-Open	6	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:23 2025 Page 1
ID:9677KBVwwjNku0W9IYrcUzY81Q-9s98DJxXoZiNBmZL8Vg0QcPOuwGguh0z2tMKzLzOSF_



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.13	2-4	>625	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.60	Vert(CT) -0.26	2-4	>313	240		
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-P	Wind(LL) 0.00	2	****	240	Weight: 26 lb	FT = 20%

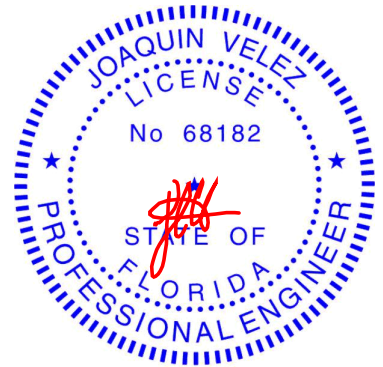
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 3=-63(LC 12), 2=-63(LC 12)
Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(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=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
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April 22,2025

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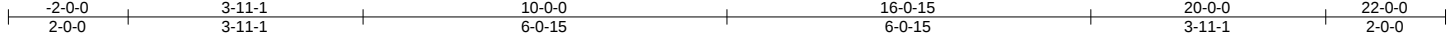
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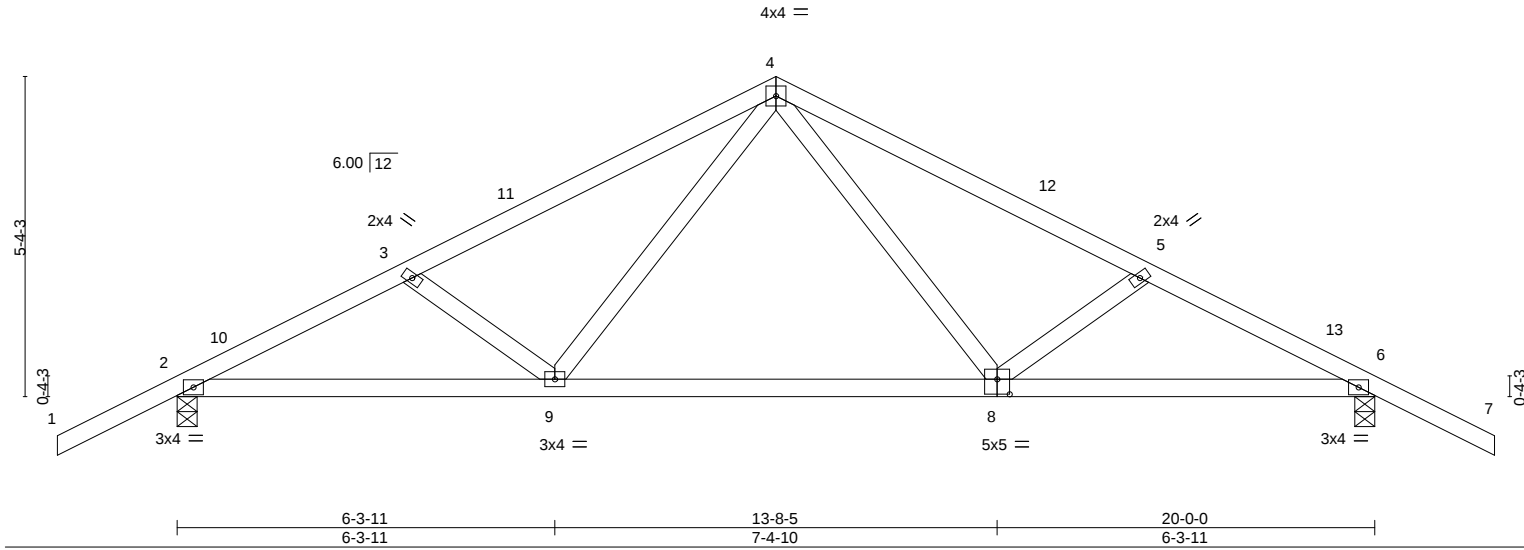
Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079485
6250379	G01	Common	2	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:23 2025 Page 1
ID:9677KBVwwjNku0Wl9lYrcUzY81Q-9s98DJxXoZiNBmZL8Vg0QcPSzwH5ugXz2tMKzLzOSF_



Scale = 1:38.5



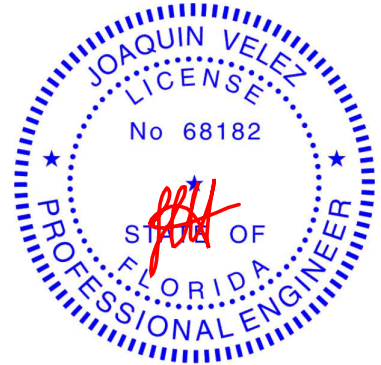
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.06 8-9 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.16 8-9 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.03 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03 8-9 >999 240				
								Weight: 97 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-7-4 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=-99(LC 10)
Max Uplift 2=-95(LC 12), 6=-95(LC 12)
Max Grav 2=917(LC 1), 6=917(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1394/180, 3-4=-1175/140, 4-5=-1175/140, 5-6=-1394/180
BOT CHORD 2-9=-88/1191, 8-9=0/752, 6-8=-109/1191
WEBS 4-8=-2/422, 5-8=-293/149, 4-9=-2/422, 3-9=-293/149

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone; cantilever 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) 2, 6.



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

April 22,2025

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079486
6250379	G01X	Common Supported Gable	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,

8.830 s Apr 11 2025
MiTek Industries, Inc.
Mon Apr 21 15:38:24 2025
Page 1
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18-0-15
18-0-15
18-0-15
18-2-9
20-0-0
22-0-0
0-1-9
1-9-7
2-0-0

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2-0-0
1-9-7
1-11-1
0-1-9
10-0-0
8-0-15

8-0-15
0-1-9
1-9-7
2-0-0

Scale = 1:38.5

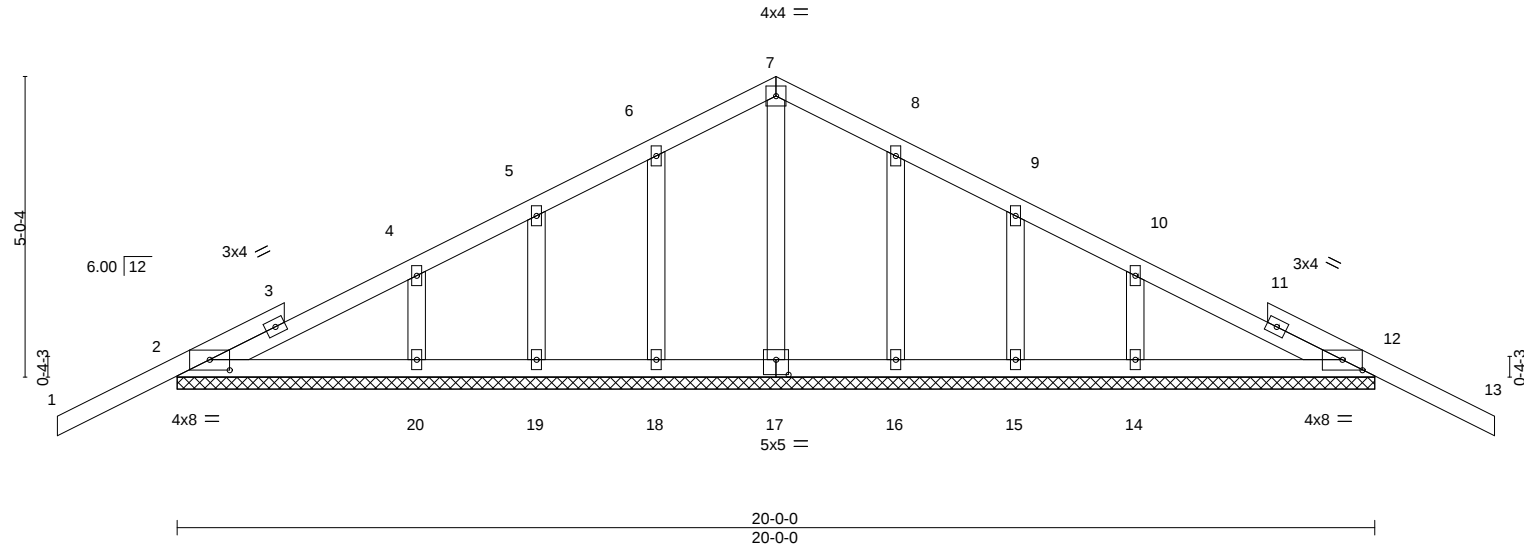


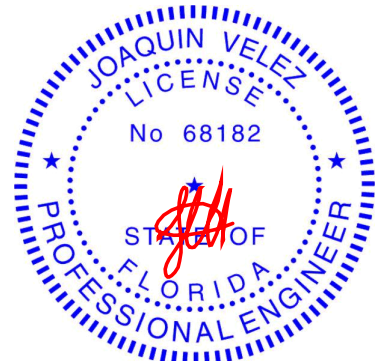
Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [17:0-2-8,0-3-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.01	13	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.02	13	n/r	120	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	12	n/a	n/a	
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S						
									GRIP
									244/190
									Weight: 103 lb FT = 20%

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

REACTIONS. All bearings 20-0-0.
 (lb) - Max Horz 2=93(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 16, 15
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 16, 15 except 2=285(LC 23), 12=285(LC 24), 20=258(LC 23), 14=258(LC 24)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 18, 19, 16, 15.



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

April 22,2025

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079487
6250379	G02	COMMON	6	1		

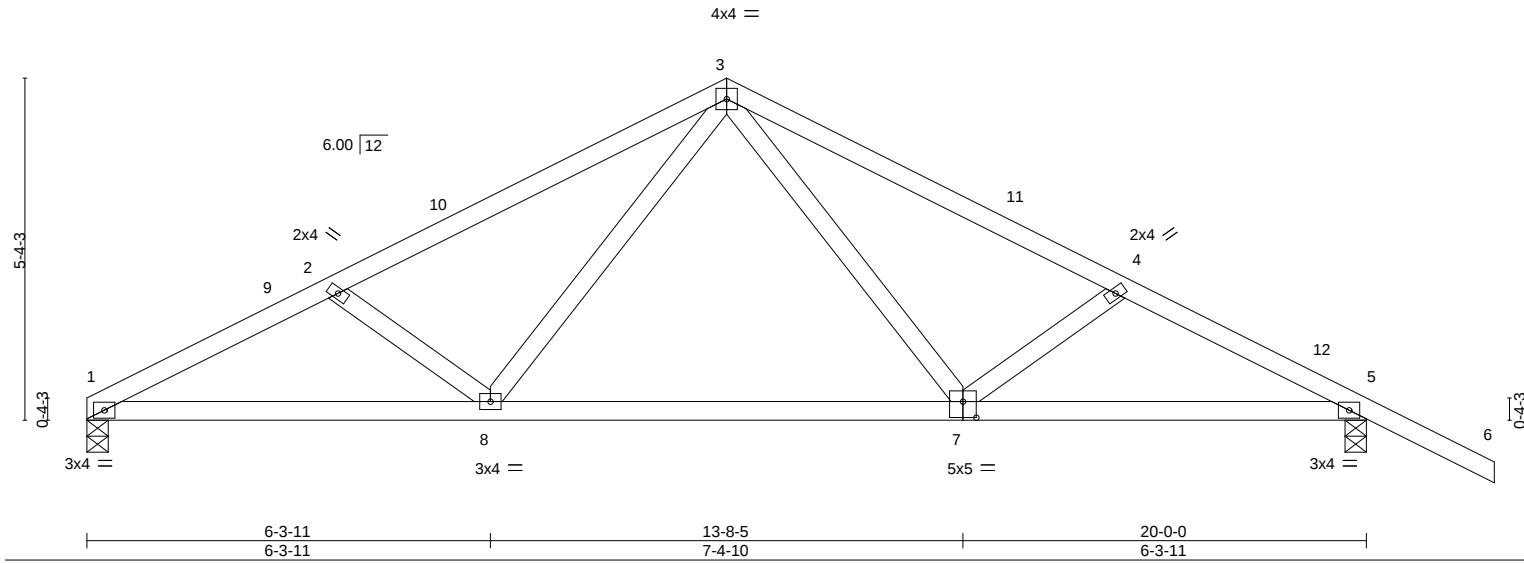
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:24 2025 Page 1
ID:9677KBVwwjNku0Wl9lYrcUzY81Q-d2jWQfy9ZtqDov8YiCBFzqychKd7d7j7GX6tUnzOSEz

Job Reference (optional)



Scale = 1:36.0



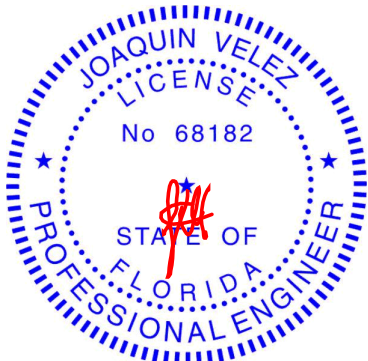
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.06 7-8 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.15 7-8 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.03 5 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03 7-8 >999 240				
								Weight: 94 lb		FT = 20%	

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

REACTIONS. (size) 1=0-4-0, 5=0-4-0
Max Horz 1=-95(LC 10)
Max Uplift 1=-30(LC 12), 5=-99(LC 12)
Max Grav 1=780(LC 1), 5=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1440/226, 2-3=-1217/181, 3-4=-1189/161, 4-5=-1409/202
BOT CHORD 1-8=-144/1255, 7-8=-10/766, 5-7=-129/1204
WEBS 3-7=-0/421, 4-7=-293/150, 3-8=-14/435, 2-8=-326/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-2-0 to 3-2-0, Zone1 3-2-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone; cantilever 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) 1, 5.



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

April 22,2025

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

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

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079488
6250379	H7T	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

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ID:9677KBVwwjNku0W9lYrcUzY81Q-5FHue?znKAy4Q3jkFvjUW1UkAkzLMWjGVBrR0EzOSEy

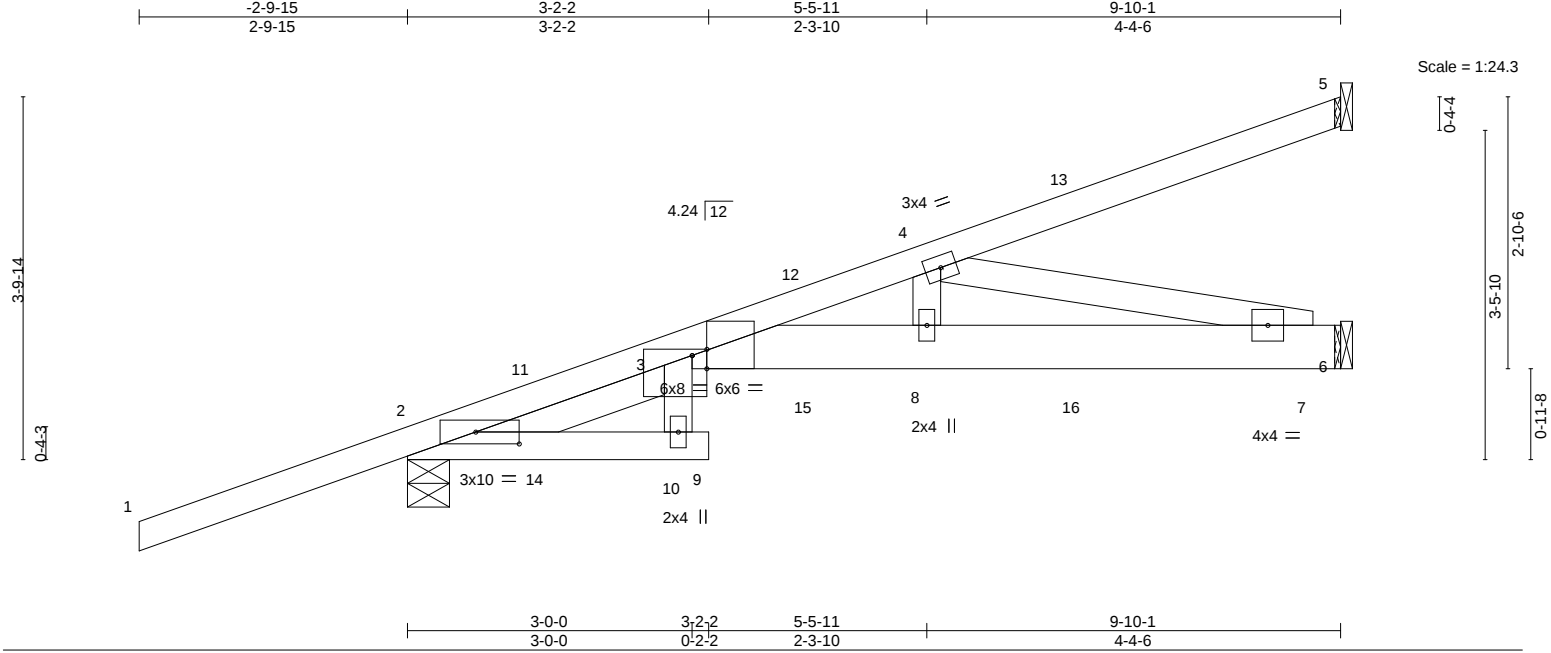


Plate Offsets (X,Y)--		[2:0-5-8,0-1-8], [3:0-1-14,Edge], [3:0-1-14,0-0-13]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72
TCDL 10.0	Lumber DOL	1.25	BC 0.53
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.07 9 >999 360
			Vert(CT) -0.14 9 >828 240
			Horz(CT) 0.07 6 n/a n/a
			Wind(LL) -0.10 9 >999 240
			PLATES GRIP
			MT20 244/190
			Weight: 52 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-5 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	3-6: 2x6 SP No.2		6-0-0 oc bracing: 2-10.
WEBS	2x4 SP No.2		
SLIDER	Left 2x4 SP No.2 2-1-5		

REACTIONS. (size) 5=Mechanical, 2=0-5-5, 6=Mechanical
Max Horz 2=119(LC 8)
Max Uplift 5=62(LC 8), 2=160(LC 8)
Max Grav 5=234(LC 1), 2=598(LC 31), 6=317(LC 32)

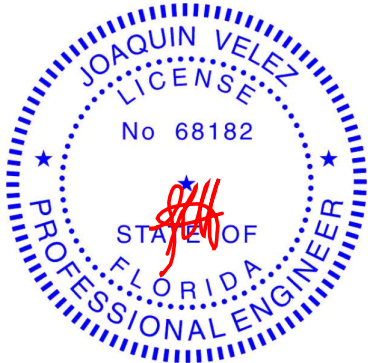
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1215/0
BOT CHORD 3-8=-22/1147, 7-8=-22/1148
WEBS 4-8=0/332, 4-7=-1178/23

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever 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.
- 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) 5 except (jt=lb) 2=160.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 186 lb up at 1-4-15, 88 lb down and 186 lb up at 1-4-15, 53 lb down and 18 lb up at 4-2-15, 53 lb down and 18 lb up at 4-2-15, 81 lb down and 46 lb up at 7-0-14, and 81 lb down and 46 lb up at 7-0-14, and 119 lb down and 57 lb up at 9-9-5 on top chord, and at 1-4-15, at 1-4-15, 18 lb down at 4-2-15, 18 lb down at 4-2-15, and 34 lb down at 7-0-14, and 34 lb down at 7-0-14 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=-60, 3-5=-60, 2-10=-20, 9-10=-20, 3-6=-20



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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079488
6250379	H7T	Diagonal Hip Girder	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL),Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:25 2025 Page 2
ID:9677KBVwwjNku0Wl9YrcUzY81Q-5FHue?znKAy4Q3jkFvjUW1UkAkzLMWjGVBrR0EzOSEy

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-119(F) 11=124(F=62, B=62) 13=-34(F=-17, B=-17) 15=-5(F=-3, B=-3) 16=-68(F=-34, B=-34)

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

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray	T37079489
6250379	H7V	Diagonal Hip Girder	2	1	Job Reference (optional)	

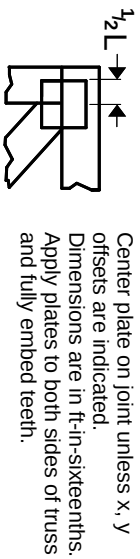
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:26 2025 Page 1
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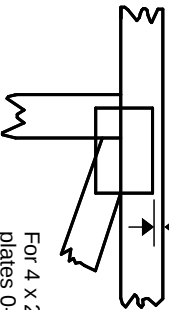


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

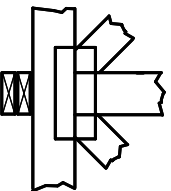
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

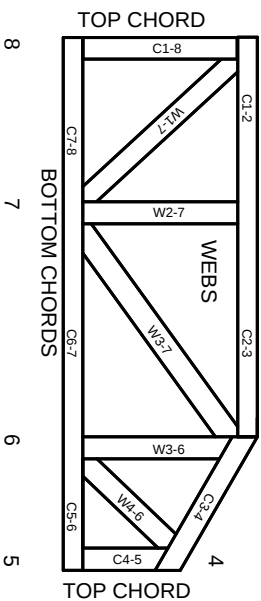
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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