

RE: 6250379 - 1820-B-Tray MiTek, Inc.

16023 Swingley Ridge Rd. Site Information:

Chesterfield MO 63017
Customer Info: Adams Homes-Gainesville Project Name: The Preserve at Laurel Lake40874,1209del: 1820-B Tray

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:

20

21 22

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. 1234567891112314	Seal# T37079458 T37079459 T37079460 T37079461 T37079463 T37079464 T37079466 T37079467 T37079468 T37079470 T37079471	Truss Name A01 A02 A03 A04 A04T A05 A05T A06 A07 A08 A09 A10 A11 C1	Date 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25	No. 23 24 25 26 27 28 29 30 31 32	Seal# T37079480 T37079481 T37079482 T37079483 T37079484 T37079486 T37079488 T37079489	E7 E7A E7T E7V G01 G01X G02 H7T	Date 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25 4/22/25
15 16	T37079472 T37079473	C1V C3T	4/22/25 4/22/25			APPROV	ED
17 18	T37079474 T37079475	C3V C5T C5V	4/22/25 4/22/25			By troy cre	

PROVED

oy crews at 2:22 pm, Apr 29, 2025

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

E01

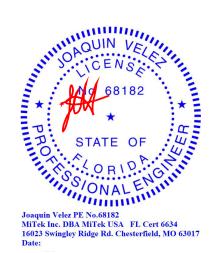
E01X

T37079477

T37079478 T37079479

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.



April 22,2025

Job Truss Truss Type Qty Ply 1820-B-Tray T37079458 6250379 8 A01 Roof Special 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:9677KBVwwjNKu0Wl9lYrcUzY81Q-5zlT4Bl7KypVtSvTmrvVJSHoRt2Qun4mb2E1xjzOŠFD

26-3-4

6-11-4

30-4-0

4-0-12

34-0-9

3-8-9

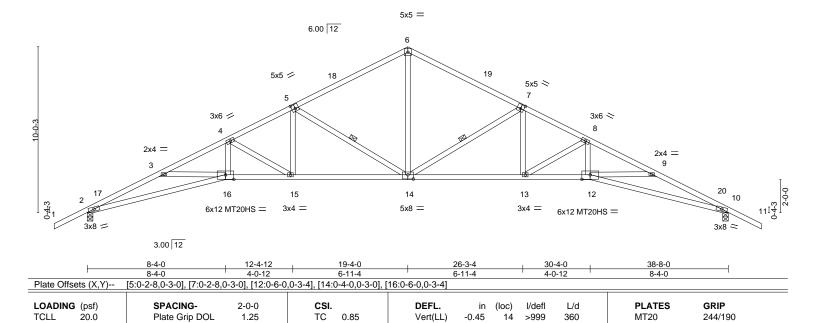
38-8-0

19-4-0

6-11-4

Scale = 1:69.5

2-0-0



Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

-0.93 14-15

10

14

1 Row at midpt

0.63

0.25

>495

>999

n/a

240

n/a

240

Structural wood sheathing directly applied.

Rigid ceiling directly applied or 2-2-0 oc bracing.

7-14. 5-14

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2

10.0

0.0

10.0

2x4 SP No.2 *Except* BOT CHORD

2-16,10-12: 2x4 SP M 31 or 2x4 SP SS

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

WFBS 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

1.25

YES

вс

WB

Matrix-S

0.97

0.53

12-4-12

4-0-12

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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.
- 8) 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.



MT20HS

Weight: 206 lb

187/143

FT = 20%

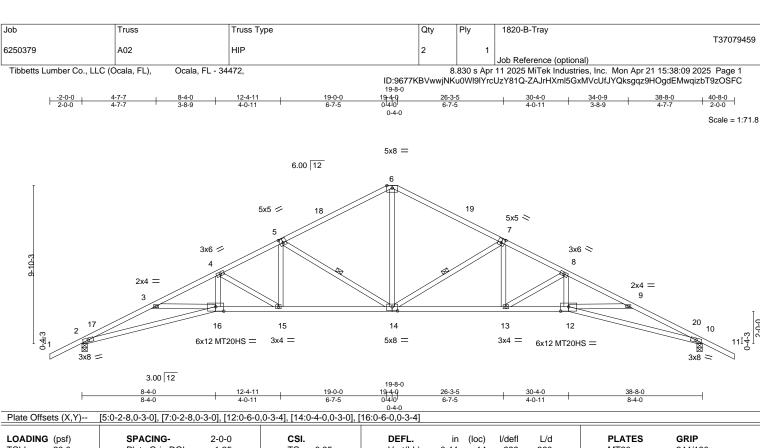
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 22,2025



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





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	0.85	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/TF	PI2014	Matri	x-S	Wind(LL)	0.25	14	>999	240	Weight: 206 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

Structural wood sheathing directly applied.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

5-14, 7-14

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

2-16,10-12: 2x4 SP M 31 or 2x4 SP SS

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

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-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 2 and 128 lb uplift at



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

April 22,2025



joint 10.

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



Job Truss Truss Type Qty Ply 1820-B-Tray T37079460 6250379 2 A03 diH Job Reference (optional) 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:09 2025 Page 1

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

8-4-0

12-4-12

4-0-12

17-0-0

4-7-5

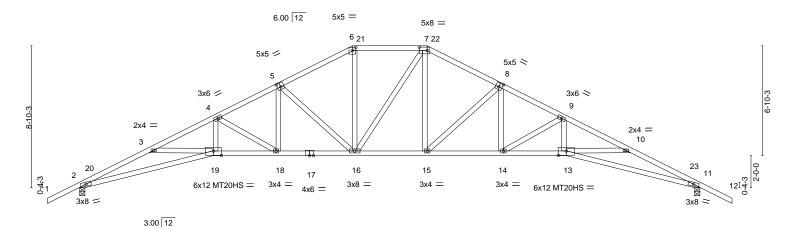
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-ZAJrHXml5GxMVcUfJYQksgq0MHOhdBowqizbT9zOSFC 21-8-0 30-4-0 34-0-9 26-3-4 4-8-0 4-0-12 3-8-9 2-0-0

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

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

2-2-0 oc bracing: 18-19,13-14.

Scale = 1:71.8



	1	8-4-0	12-4-12	17-0-0	21-8-0	26-3-4	30-4-0	38-8-0	1
		8-4-0	4-0-12	4-7-5	4-8-0	4-7-5	4-0-12	8-4-0	1
Plate Off	sets (X,Y)	[5:0-2-8,0-3-0], [6:0-2-8,0-	2-4], [7:0-6-0,0-2	2-8], [8:0-2-8,0-3-0]	, [13:0-6-0,0-3-4], [19:0-6-0,0-3-4]			
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL	-0.44 15	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.97	Vert(CT) -0.88 14-15	>522 240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(C	r) 0.61 11	n/a n/a		
BCDL	10.0	Code FBC2023/TF	PI2014	Matrix-S	Wind(L	.) 0.24 15	>999 240	Weight: 219 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

2-19,11-13: 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 11=0-4-0

Max Horz 2=156(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=-5161/376, 3-4=-4987/288, 4-5=-3409/257, 5-6=-2512/235, 6-7=-2207/235,

7-8=-2510/239, 8-9=-3410/263, 9-10=-4986/300, 10-11=-5161/387 $2 - 19 = -280/4632, \ 18 - 19 = -141/4348, \ 16 - 18 = -62/2988, \ 15 - 16 = 0/2205, \ 14 - 15 = -80/2989, \ 18 - 19 = -141/4348, \ 16 - 18 = -62/2988, \ 15 - 16 = 0/2205, \ 14 - 15 = -80/2989, \ 18 - 19 = -141/4348, \ 18 - 18 = -62/2988, \ 18 - 19 = -141/4348, \ 18 - 18 = -62/2988, \ 18 - 18 = -80/2989,$ **BOT CHORD**

13-14=-163/4348, 11-13=-302/4632

WEBS 4-19=0/1239, 4-18=-1555/91, 5-18=0/868, 5-16=-1084/112, 6-16=-18/827, 7-15=-22/825,

8-15=-1087/115, 8-14=-1/870, 9-14=-1554/96, 9-13=0/1239

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 21-8-0, Zone2 21-8-0 to 26-2-5, Zone1 26-2-5 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) 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.
- 9) 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 11.



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

April 22,2025

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



Job Truss Truss Type Qty Ply 1820-B-Tray T37079461 6250379 A04 diH Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:10 2025 Page 1 Ocala, FL - 34472, ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-1MtDUtnNsZ3D7m3rtGxzPtNAXhooMhZ32Mj8?bzOSFB

23-8-0

30-4-0

6-8-0

6-8-0

>999

1 Row at midpt

240

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

Structural wood sheathing directly applied or 2-0-12 oc purlins.

4-15, 8-13

0.22 12-13

34-0-9

3-8-9

38-8-0

8-4-0

Weight: 202 lb

FT = 20%

19-4-0

4-4-0

15-0-0

6-8-0

15-0-0 6-8-0

Matrix-S

Scale = 1:71.8

2-0-0

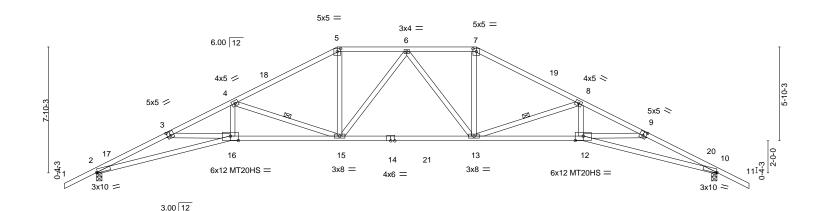


Plate Offsets ((X,Y)	[2:0-0-10,Edge], [3:0-2-8,	0-3-0], [5:0-2-8	3,0-2-4], [7:0-2-8,0-2-4], [9	0:0-2-8,0-3-0], [10	:0-0-10,Edge], [12:0-6-0,	0-3-4], [16:0	-6-0,0-3-4]		
LOADING (ps	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.	0.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.54 13-15	>853	360	MT20	244/190	
TCDL 10.	0.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-1.00 13-15	>461	240	MT20HS	187/143	
BCLL 0.	.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.62 10	n/a	n/a			

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WFBS

8-8-0

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 *Except*

3-5.7-9: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

10.0

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.

Code FBC2023/TPI2014

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) 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.
- 9) 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

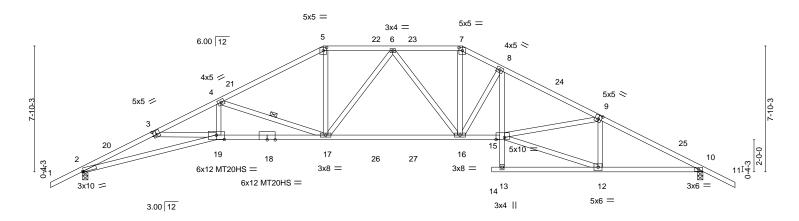


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty Ply 1820-B-Tray T37079462 6250379 A04T diH Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:11 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-VYRciDo?dtB4kwe2RzSCx5vLB46957CCH0ShY2zOŠFA

Scale = 1:71.8



							20-0-0	,			
	1	8-4-0	15-	-0-0	1	23-8-0	25-6-0		32-3-4	38-8-0	
		8-4-0	6-1	8-0	1	8-8-0	1-10-0 0-6-0		6-3-4	6-4-12	
Plate Off	sets (X,Y)	[2:0-0-10,Edge], [3:0-2-8,	0-3-0], [5:0-2-8	8,0-2-4], [7:0-	2-8,0-2-4], [9:0-2-8,0-3-0], [15:	0-6-4,0-1-8], [1	9:0-6-0,0	-3-4]		
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.45 16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	ВС	0.84	Vert(CT)	-0.84 16-17	>546	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.46 10	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri:	x-S	Wind(LL)	0.20 17-19	>999	240	Weight: 221 lb	FT = 20%
		1		1		1 ' '				•	

BRACING-

WFBS

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x4 SP No 2 *Except*

3-5: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except*

8-13,10-14: 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 10=0-4-0

Max Horz 2=-155(LC 10)

Max Uplift 2=-125(LC 12), 10=-123(LC 12) Max Grav 2=1834(LC 17), 10=1842(LC 18)

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

TOP CHORD 2-3=-5788/373, 3-4=-5699/328, 4-5=-3228/229, 5-6=-2858/239, 6-7=-2816/235,

7-8=-3145/252, 8-9=-3846/269, 9-10=-3241/210

BOT CHORD 2-19=-275/5333, 17-19=-184/5078, 16-17=-47/2956, 15-16=-87/3355, 8-15=-23/1038,

10-12=-117/2802

WEBS 4-19=0/1523, 4-17=-2316/188, 5-17=-1/1111, 6-17=-318/62, 6-16=-310/72 7-16=-67/1236, 8-16=-1165/138, 12-15=-140/2860, 9-15=0/640, 9-12=-720/127

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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 15-0-0, Zone2 15-0-0 to 20-5-10, Zone1 20-5-10 to 23-8-0, Zone2 23-8-0 to 29-1-10, Zone1 29-1-10 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 2 and 123 lb uplift at joint 10.



Structural wood sheathing directly applied or 2-0-9 oc purlins.

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

4-17

10-0-0 oc bracing: 13-15

1 Row at midpt

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

April 22,2025



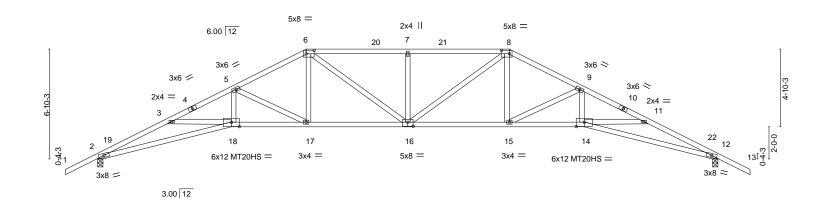
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply 1820-B-Tray T37079463 6250379 A05 Hip Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:11 2025 Page 1 Ocala, FL - 34472,

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-VYRciDo?dtB4kwe2RzSCx5vLd44g541CH0ShY2zOŠFA 8-4-0 13-0-0 19-4-0 25-8-0 30-4-0 34-0-9 38-8-0 40-8-0 4-8-0 6-4-0 6-4-0 3-8-9 2-0-0

Scale = 1:71.8



—	8-4-0 8-4-0	13-0-0 4-8-0	19-4-0 6-4-0	25-8-0 6-4-0	30-4-0 4-8-0	38-8-0 8-4-0
Plate Offsets (X,Y)	[6:0-6-0,0-2-8], [8:0-6-0,0-	2-8], [14:0-6-0,0-3	3-4], [16:0-4-0,0-3-0], [18:	0-6-0,0-3-4]		
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/TF	2-0-0 1.25 1.25 YES Pl2014	CSI. TC 0.73 BC 1.00 WB 0.77 Matrix-S	Vert(CT) -0.96 16-1 Horz(CT) 0.64 1	6 >970 360	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 201 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

2-18,12-14: 2x4 SP M 31 or 2x4 SP SS

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-4-0, 12=0-4-0

Max Horz 2=124(LC 11)

Max Uplift 2=-128(LC 12), 12=-128(LC 12)

Max Grav 2=1663(LC 1), 12=1663(LC 1)

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

TOP CHORD 2-3=-5157/374, 3-5=-4992/298, 5-6=-3252/239, 6-7=-3259/268, 7-8=-3259/268,

8-9=-3252/245. 9-11=-4992/310. 11-12=-5156/386

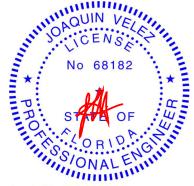
BOT CHORD $2-18 = -278/4628, \ 17-18 = -153/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 15-16 = -50/2880, \ 14-15 = -175/4355, \ 16-17 = -38/2880, \ 16-17 = -38/$ 12-14=-300/4628

WEBS $5-18=0/1238,\, 5-17=-1672/133,\, 6-17=0/853,\, 6-16=-46/617,\, 7-16=-426/125,\, 8-16=-46/617,\, 7-16-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/617,\, 7-16/61$

8-15=0/853, 9-15=-1672/139, 9-14=0/1238

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-8-0, Zone2 25-8-0 to 30-2-4, Zone1 30-2-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) 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 12.



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

Rigid ceiling directly applied or 2-2-0 oc bracing.

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

April 22,2025



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





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:9677KBVwwjNKu0Wl9lYrcUzY81Q-zl?_vYodOBJwM3DE?h_RUISXRUQwqX9MWgCF4UzOŠF9

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

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

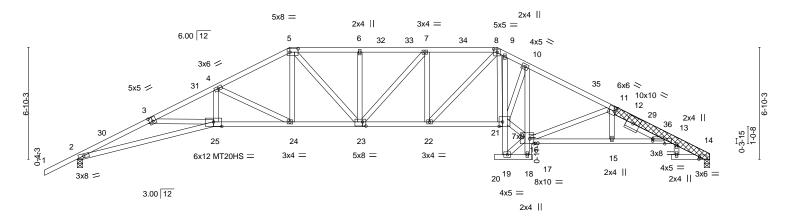
2-2-0 oc bracing: 24-25

6-0-0 oc bracing: 18-19.

6-0-0 oc bracing: 19-21, 16-18

36₁6-0 0-2-0 2-2-0

Scale = 1:70.4



					27-8-0			38-8-0
8-4-0	13-0-0	17-3-4	21-4-12	25-10-0	26,0-0 27-10-0	32-8-4	36-4-0	36 ₁ 6-0
8-4-0	4-8-0	4-3-4	4-1-8	4-5-4	0-2-0 0-2-0	4-10-4	3-7-12	0-2-0 2-2-0
					1-8-0			

Plate Offsets (X,Y)--[3:0-2-8,0-3-0], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [11:0-1-8,0-3-0], [13:0-8-13,Edge], [13:0-0-1,0-1-8], [14:0-0-8,0-1-8], [16:0-3-0,Edge], [21:0-2-8,0-3-4], [23:0-2-8,0-3-0], [25:0-6-0,0-3-4]

LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25	CSI. TC 0.66 BC 1.00	DEFL. ii Vert(LL) -0.42 Vert(CT) -0.85	23	l/defl L/d >999 360 >540 240	PLATES GRIP MT20 244/190 MT20HS 187/143
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2023/TPI2014	WB 0.78 Matrix-S	Horz(CT) -0.05 Wind(LL) 0.24	14	n/a n/a >999 240	Weight: 271 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SP No.2 *Except* TOP CHORD

11-14: 2x6 SP DSS **BOT CHORD** 2x4 SP No.2 *Except*

2-25,13-16: 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2 **OTHERS** 2x6 SP DSS

LBR SCAB 11-14 2x6 SP DSS both sides Right 2x4 SP No.2 2-6-0 **SLIDER**

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 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-

WEBS

- 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; 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 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.

68182

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

April 22,2025

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



Job	Truss	Truss Type	Qty	Ply	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.



Job Truss Truss Type Qty Ply 1820-B-Tray T37079465 6250379 A06 Hip 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 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-RxZM7upF9USn_DoQYOVg0W?iBulGZ?EVkJxocwzOSF8

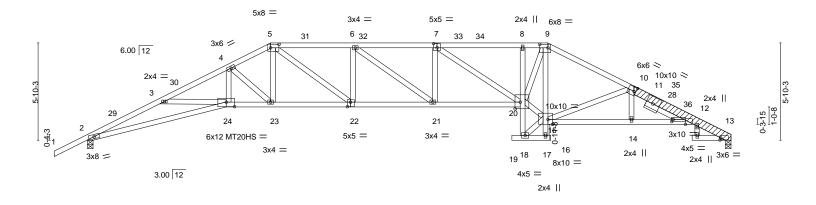
Structural wood sheathing directly applied or 2-2-0 oc purlins.

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

6-0-0 oc bracing: 18-20, 15-17

38-8-0 8-4-0 3-8-9 36₁6-0 0-2-0 2-2-0

Scale = 1:69.2



					27-8-0			38-8-0	
8-4-0	11-0-0	15-11-5	20-10-11	25-6-0	26-0 ₁ 0 27-10-0	32-8-4	36-4-0	36 ₁ 6-0	
8-4-0	2-8-0	4-11-5	4-11-5	4-7-5	0-6-b 1-8-0	4-10-5	3-7-11	0-2-0 2-2-0	
					0-2-0				

Plate Offsets (X,Y)--[5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-6-0,0-2-8], [10:0-1-8,0-3-0], [12:0-1-1,0-1-8], [12:0-8-14, Edge], [13:0-0-8,0-1-8], [15:0-3-4, Edge], [20:0-3-12,0-4-12], [15:0-3-4, Edge], [10:0-1-8,0-3-0], [10:0-1-8,[22:0-2-4,0-3-4], [24:0-6-0,0-3-4]

LOADIN TCLL	G (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.66	DEFL. in (loc) I/defl L/d Vert(LL) -0.52 21-22 >886 360	PLATES GRIP MT20 244/190
TCDL	10.0	Lumber DOL 1.25	BC 0.99	Vert(CT) -1.05 21-22 >438 240	MT20HS 187/143
BCLL	0.0 *	Rep Stress Incr YES	WB 0.72	Horz(CT) 0.65 13 n/a n/a	
BCDL	10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.30 21-22 >999 240	Weight: 239 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SP No.2 *Except* TOP CHORD

10-13: 2x6 SP DSS **BOT CHORD** 2x4 SP No.2 *Except*

2-24,12-15: 2x4 SP M 31 or 2x4 SP SS

WEBS 2x4 SP No.2

OTHERS 2x6 SP DSS

LBR SCAB 10-13 2x6 SP DSS one side Right 2x4 SP No.2 2-6-0 SLIDER

REACTIONS. (size) 2=0-4-0. 13=0-4-0

Max Horz 2=113(LC 11)

Max Uplift 2=-126(LC 12), 13=-55(LC 12) Max Grav 2=1673(LC 1), 13=1547(LC 1)

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

NOTES-

- 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 V 68182

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

April 22,2025

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



Job	Truss	Truss Type	Qty	Ply	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 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-RxZM7upF9USn_DoQYOVg0W?iBulGZ?EVkJxocwzOSF8

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.



Job Truss Truss Type Qty Ply 1820-B-Tray T37079466 6250379 A07 Hip 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 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-w77kKEquwoaebNNd660vZjXokl8QlPHfzzhM8MzOSF7

27-8-0 29-8-0 32-8-4 1-8-0 2-0-0 3-0-4 36₁6-0 0-2-0 2-2-0

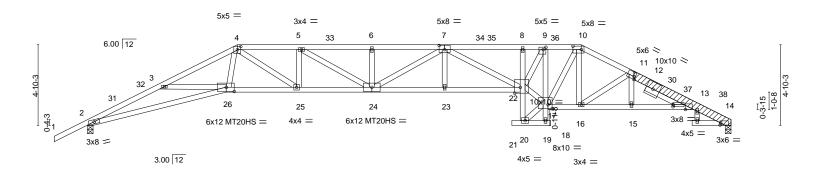
Structural wood sheathing directly applied.

6-0-0 oc bracing: 19-20.

6-0-0 oc bracing: 20-22, 17-19

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

Scale = 1:69.2



					27-10-0			38-8-0	
8-4-0	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 ₇ 6-0	
8-4-0	4-4-8	4-4-8	4-4-8	4-6-8	1-8-0 1-10-0	3-0-4	3-7-12	0-2-0 2-2-0	
					0-2-0				

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]

LOADIN TCLL	G (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.99	DEFL. in (loc) I/defl L/d Vert(LL) -0.70 23-24 >658 360	PLATES GRIP 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%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-2x4 SP No.2 *Except* TOP CHORD

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 2x4 SP No.2

WEBS **OTHERS** 2x6 SP DSS

LBR SCAB 11-14 2x6 SP DSS one side Right 2x4 SP No.2 2-6-0 **SLIDER**

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

2-26=-391/4685, 25-26=-182/4075, 24-25=-238/5081, 23-24=-276/5745, 22-23=-276/5745, **BOT CHORD**

9-17=-3061/173, 16-17=-125/2940, 15-16=-210/3857, 13-15=-214/3849 4-26=-20/1301, 4-25=-95/1302, 5-25=-649/99, 5-24=-39/783, 6-24=-256/71 WEBS

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

NO 6

PD STAND

STAND

STAND

SITE IN THE PROBLEM TO STAND

STAND

SALE OF THE PROBLEM TO STAND Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

68182



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

Job	Truss	Truss Type	Qty	Ply	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:9677KBVwwjNKu0Wl9lYrcUzY81Q-w77kKEquwoaebNNd660vZjXokl8QlPHfzzhM8MzOSF7

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.



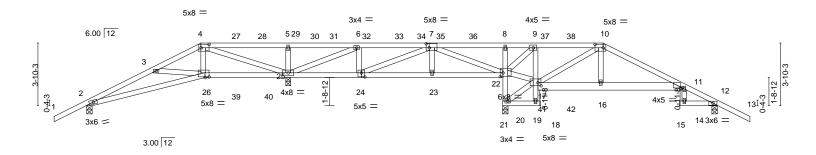


Job Truss Truss Type Qty Ply 1820-B-Tray T37079467 6250379 A08 Hip Girder 2 Job Reference (optional)

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 1

ID:9677KBVwwjNKu0Wl9IYrcUzY81Q-OKg6YarWh6iVDXypgpX86x41Miba10UoCdQvhpzOSF6 27-10-0 + 2-2-0 + 36-4-0 4-8-0

Scale = 1:70.6



									27-10-0		30	3-8-0
	1	7-3-0	12-2-8	12 ₁ 4-4 16-8-5	1 21-2-3	1	25-8-0	27	'-8-0 _{II}	31-8-0	1 36-4-0 36 ₁ 6-0	
		7-3-0	4-11-8	0-1-12 4-4-1	4-5-13		4-5-13	2.	-0-0 0-2-0	3-10-0	4-8-0 0-2-0 2	-2-0
Plate Offs	sets (X,Y)	[4:0-6-0,0-2-8], [7:0-2-4	1,0-3-0], [10:0-	-6-0,0-2-8], [11:0	-1-4,0-0-2], [17:0-	2-4,0-2-4], [22:0-2-0,	0-2-12	, [24:0-2	-8,0-3-0], [2	26:0-3-0,0-0-8]	
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.08	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.18	15	>876	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code FBC2023	/TPI2014	Matrix	c-S	Wind(LL)	0.03	15	>999	240	Weight: 406 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* **BOT CHORD** 11-17: 2x6 SP No.2

WFBS 2x4 SP No.2 TOP CHORD

BRACING-**BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

10-0-0 oc bracing: 17-19

REACTIONS. All bearings 0-4-0 except (jt=length) 25=0-3-8.

(lb) -Max Horz 2=-82(LC 25)

Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-107(LC 8), 25=-340(LC 8), 20=-187(LC 8) Max Grav All reactions 250 lb or less at joint(s) except 2=734(LC 1), 12=617(LC 1), 25=2145(LC 19),

20=2760(LC 20)

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

TOP CHORD 2-3=-1592/81, 3-4=-1324/43, 4-5=-150/1075, 5-6=-147/1160, 6-7=-18/280, 7-8=0/2610,

8-9=0/2542, 9-10=0/908, 10-11=-711/9, 11-12=-273/30

BOT CHORD 2-26=-40/1400, 25-26=0/1260, 24-25=-280/18, 23-24=-673/0, 22-23=-673/0,

5-25=-667/209, 9-17=0/1150, 16-17=0/646, 11-16=0/612

WEBS 3-26=-302/157, 4-26=0/770, 4-25=-2447/178, 6-25=-1279/438, 7-24=0/475,

7-22=-2350/291, 20-22=-2601/181, 8-22=-454/125, 17-20=-315/33, 17-22=-754/35,

10-17=-1805/0, 10-16=0/703, 9-22=-2134/0

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) 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 will fit between the bottom chord and any other members.
- 10) 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb)



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

April 22,2025

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



Job	Truss	Truss Type	Qty	Ply	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:9677KBVwwjNKu0Wl9lYrcUzY81Q-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 15-0-12, 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 23-7-4, 122 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, 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)



Job Truss Truss Type Qty Ply 1820-B-Tray T37079468 6250379 A09 diH Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:16 2025 Page 1 Ocala, FL - 34472.

5-6-11

Scale = 1:70.6

40-8-0

2-0-0

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-sWEVlws8SPqMrhX?EX2Ne8dDX5twmN0xRHASDFzOSF5

34-0-9

3-8-9

30-4-0

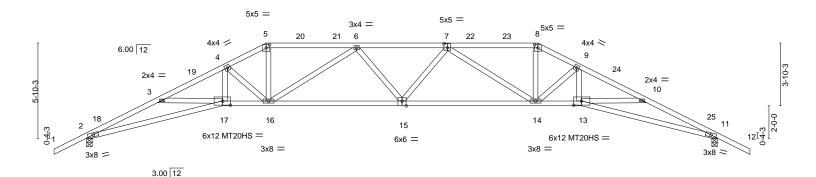
2-8-0

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

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

27-8-0

5-6-11



-	8-4-0 8-4-0	11-0-0 2-8-0	19-4 8-4-	-	-	27-8-0 8-4-0			0-4-0 -8-0	38-8-0 8-4-0	—
Plate Offsets (X,Y)	[5:0-2-8,0-2-4], [7:0-2-8,	0-3-0], [8:0-2-8	3,0-2-4], [13:0-	5-12,0-3-0], [1	5:0-3-0,Edge], [1	7:0-5-1	2,0-3-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/1	2-0-0 1.25 1.25 YES FPI2014	CSI. TC BC WB Matrix	0.65 0.61 0.66 (-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.51 -1.05 0.63 0.28	(loc) 15 15-16 11 15	I/defl >895 >437 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 195 lb	GRIP 244/190 187/143 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2

BOT CHORD 2x4 SP M 31 or 2x4 SP SS

WFBS 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)

8-4-0 3-8-9

11-0-0

2-8-0

16-6-11

5-6-11

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. 8) 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. 9) 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



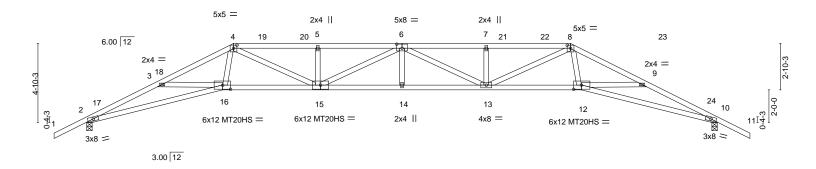
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply 1820-B-Tray T37079469 6250379 A10 Hip Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:16 2025 Page 1 Ocala, FL - 34472.

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-sWEVlws8SPqMrhX?EX2Ne8d8O5ntmSvxRHASDFzOSF5 9-0-0 14-2-0 19-4-0 24-6-0 29-8-0 34-0-9 38-8-0 40-8-0 5-2-0 5-2-0 5-2-0 5-2-0 2-0-0

Scale = 1:70.6



		8-4-0	14-2-0	1	19-4-0	24-6-0	1		30-4-0	1	38-8-0	
		8-4-0	5-10-0		5-2-0	5-2-0	-		5-10-0		8-4-0	1
Plate Offsets	(X,Y)	[4:0-2-8,0-2-4], [6:0-4-0,	0-3-0], [8:0-2-8,0	-2-4], [12:0	-5-12,0-3-0], [1	16:0-5-12,0-3-0]						
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	0.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.69	14	>663	360	MT20	244/190
TCDL 1	0.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-1.39	14-15	>331	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.74	10	n/a	n/a		
BCDL 1	0.0	Code FBC2023/	TPI2014	Matr	ix-S	Wind(LL)	0.39	14	>999	240	Weight: 187 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

2-2-0 oc bracing: 15-16.

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

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

6-8: 2x4 SP M 31 or 2x4 SP SS

BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except*

15-16: 2x4 SP No.2

WEBS 2x4 SP No.2

REACTIONS.

(size) 2=0-4-0, 10=0-4-0

Max Horz 2=-91(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=-5178/391, 3-4=-4945/261, 4-5=-5327/339, 5-6=-5327/339, 6-7=-5328/337,

7-8=-5328/337, 8-9=-4945/273, 9-10=-5177/402 2-16=-295/4650, 15-16=-109/4048, 14-15=-218/5736, 13-14=-218/5736, 12-13=-129/4048,

BOT CHORD 10-12=-317/4649

WEBS 4-16=0/1308, 4-15=-96/1525, 5-15=-325/98, 6-15=-539/28, 6-13=-538/27, 7-13=-325/98,

8-13=-97/1526, 8-12=0/1306

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-8-0, Zone2 29-8-0 to 33-10-15, Zone1 33-10-15 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=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



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



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

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

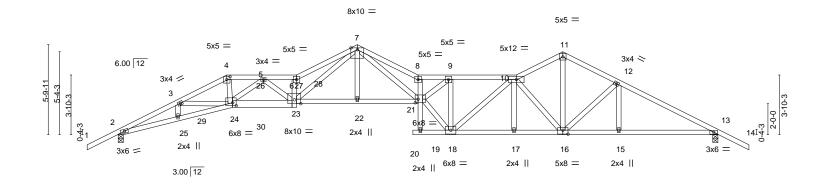
8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:17 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-KiotyGsmDjyDSr5BnEZcBM9PiVCLVrm5fxv0lhzOSF4

Structural wood sheathing directly applied or 5-7-6 oc purlins.

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



Scale = 1:74.3



						21-0-4						
	07	4 _t 0 3-10-4 _l 7-0-0 7	14 ₁ 8 11-6-0	12-0 _t 0 15-5-0	19-0-0	19-4-0	25-8-0) 1	28-8-0	32-3-5	38-8-0	
	0-7	4 ¹ 0 3-6-4 ¹ 3-1-12 0) ¹ 4 ¹ 8 4-1-8	0 ¹ 6-0 3-5-0	3-7-0	0 ¹ 4 ¹ 0 2-1-4	4-2-12	2 1	3-0-0	3-7-5	6-4-11	1
Plate Offs	sets (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]							
				1								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
ΓCLL	20.0	Plate Grip DOL	1.25	TC 0.	63	Vert(LL)	-0.53	20	>864	360	MT20	244/190
CDL	10.0	Lumber DOL	1.25	BC 0.	66	Vert(CT)	-1.08	20	>426	240		
3CLL	0.0 *	Rep Stress Incr	NO	WB 0.	63	Horz(CT)	0.38	13	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix-S		Wind(LL)	0.31	20	>999	240	Weight: 666 lb	FT = 20%
						, ,				I	•	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* **BOT CHORD** 23-24: 2x6 SP No.2

WFBS 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.

2-3=-7439/141. 3-4=-7655/204. 4-5=-7490/188. 5-6=-9781/309. 6-7=-11442/402. TOP CHORD

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

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-

WEBS

1) 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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.
- 10) 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

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Job	Truss	Truss Type	Qty	Ply	1820-B-Tray
					T37079470
6250379	A11	Roof Special Girder	1	3	Joh 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:9677KBVwwjNKu0Wl9lYrcUzY81Q-KiotyGsmDjyDSr5BnEZcBM9PiVCLVrm5fxv0lhzOSF4

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

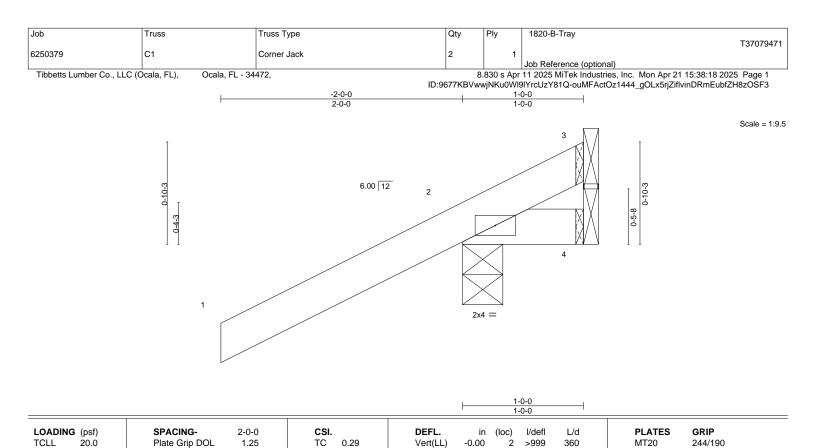
Uniform Loads (plf)

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)





Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

-0.00

-0.00

0.00

>999

n/a

3

240

n/a

240

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

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

Weight: 7 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

0.0

10.0

TOP CHORD BOT CHORD

вс

WB

Matrix-P

0.01

0.00

1.25

YES

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical Max Horz 2=48(LC 12)

Lumber DOL

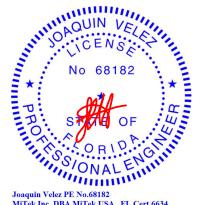
Rep Stress Incr

Code FBC2023/TPI2014

Max Uplift 3=-101(LC 1), 2=-134(LC 12) Max Grav 3=68(LC 12), 2=290(LC 1), 4=19(LC 3)

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

- $1) \ Wind: ASCE \ 7-22; \ Vult=130 mph \ (3-second \ gust) \ Vasd=101 mph; \ TCDL=4.2 psf; \ BCDL=6.0 psf; \ h=15 ft; \ B=45 ft; \ L=24 ft; \ eave=4 ft; \ Cat.$ 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=101, 2=134,



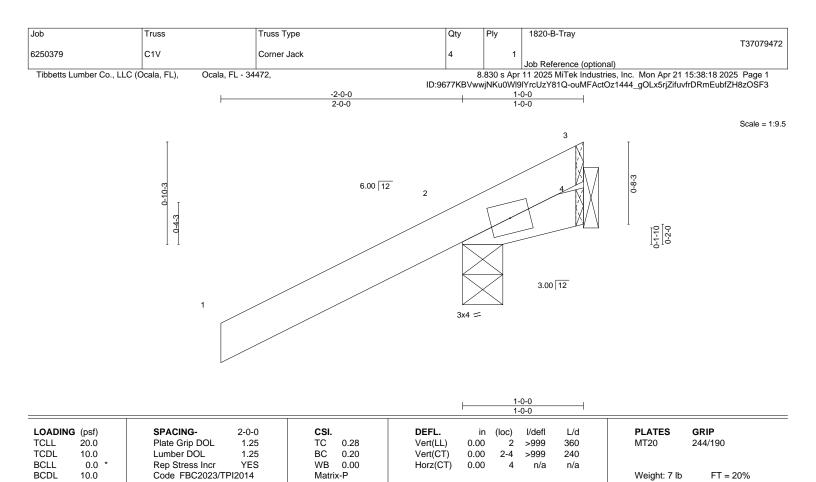
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 22,2025



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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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.

- $1) \ Wind: ASCE \ 7-22; \ Vult=130 mph \ (3-second \ gust) \ Vasd=101 mph; \ TCDL=4.2 psf; \ BCDL=6.0 psf; \ h=15 ft; \ B=45 ft; \ L=24 ft; \ eave=4 ft; \ Cat.$ 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
- 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.



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

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

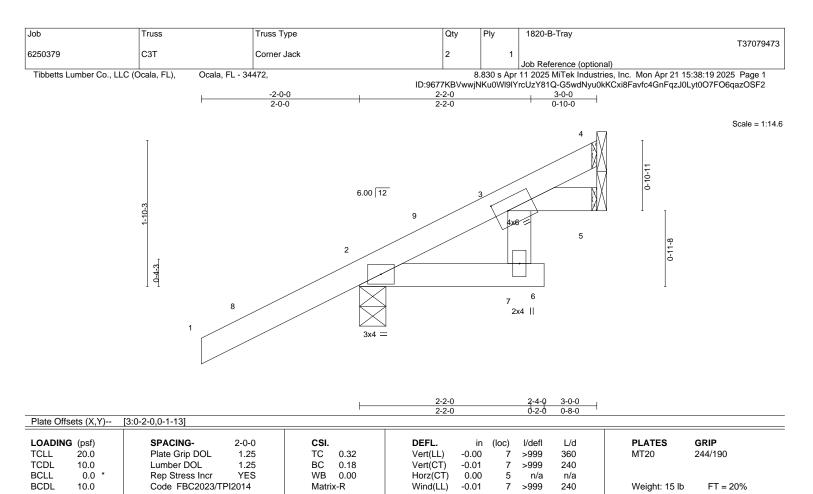
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April 22,2025



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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-0 oc purlins.

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)

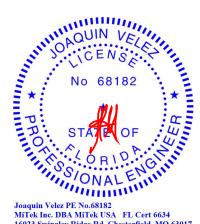
Max Uplift 4=-2(LC 9), 2=-84(LC 12)

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.



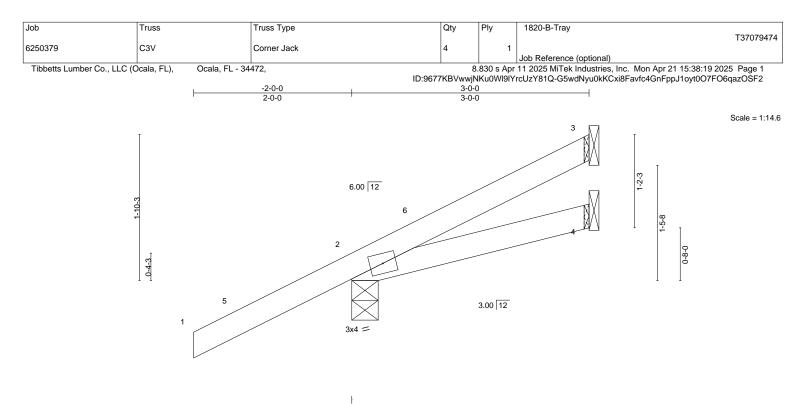
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April 22,2025



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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	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%

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical

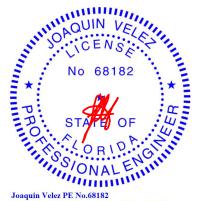
Max Horz 2=71(LC 12)

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.

- 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
- 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.



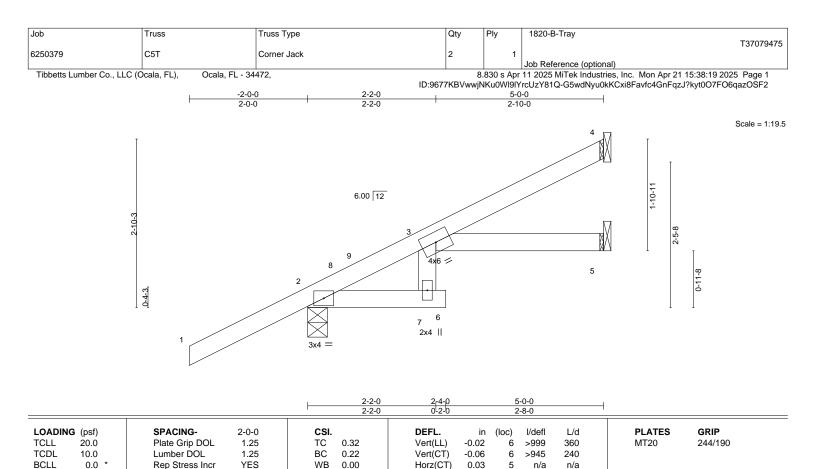
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April 22,2025



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BCDL

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

10.0

Wind(LL) BRACING-

TOP CHORD **BOT CHORD**

0.04

6 >999

Structural wood sheathing directly applied or 5-0-0 oc purlins.

Weight: 21 lb

FT = 20%

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

240

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)

Code FBC2023/TPI2014

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

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 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

Matrix-R

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



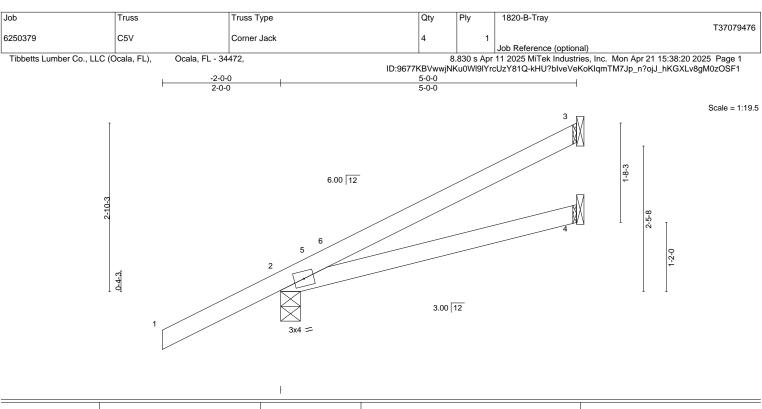
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 22,2025



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LOADING	i (psf)	SPACING-	2-0-0	CSI.		DE	EFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Ve	ert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Ve	ert(CT)	-0.06	2-4	>894	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Ho	orz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TP	I2014	Matrix	x-P	Wii	ind(LL)	0.00	2	****	240	Weight: 20 lb	FT = 20%
												_	

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical

Max Horz 2=95(LC 12)

Max Uplift 3=-36(LC 12), 2=-70(LC 12)

Max Grav 3=114(LC 1), 2=350(LC 1), 4=95(LC 3)

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

- 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 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
- 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 Date:

April 22,2025



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



Job Truss Truss Type Qty Ply 1820-B-Tray T37079477 6250379 E01 2 Common Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:20 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-kHU?blveVeKoKlqmTM7Jp_nz5jE8hKZXLv8gM0zOSF1

4-3-0 4-3-0

Scale = 1:23.0

10-6-0

2-0-0

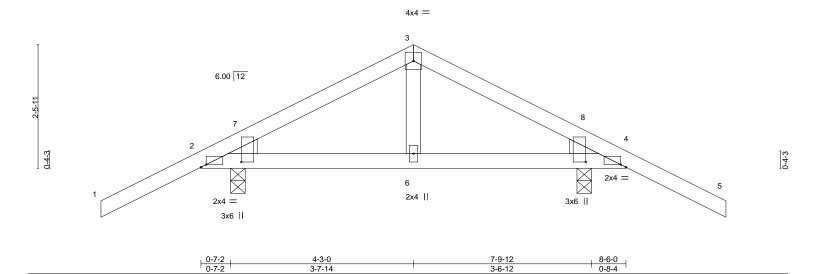


Plate Oils	sels (A, f)	[2.0-1-4,Euge], [2.0-1-4,0	1-9-11], [4.0-1-4	4,⊑uge], [4.0-	1-4,0-9-11]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.02	2-6	>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/T	PI2014	Matri	x-P	Wind(LL)	0.01	2-6	>999	240	Weight: 38 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.2, Right: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8

Max Horz 2=51(LC 11)

2-0-0

Max Uplift 2=-145(LC 12), 4=-145(LC 12) Max Grav 2=457(LC 1), 4=457(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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.



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

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

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

April 22,2025

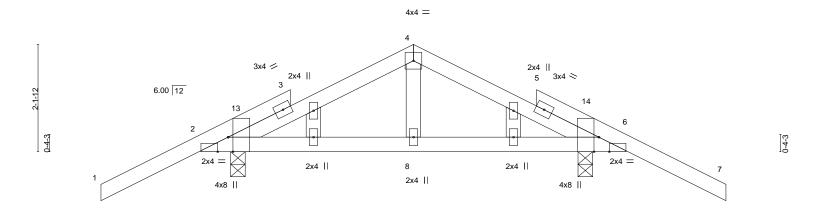


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	1820-B-Tray		
						T370794	178
6250379	E01X	GABLE	1	1			
					Job Reference (optional)		
Tibbetts Lumber Co., LLC (C	Ocala, FL), Ocala, FL - 34	1472,	8	3.830 s Apr	11 2025 MiTek Industries, I	nc. Mon Apr 21 15:38:21 2025 Page 1	
			ID:9677KBVwwjNK	u0WI9IYrcl	JzY81Q-CT2OodvHGySfxS	Pz04eYLBK8_6aBQnphaZtDuSzOSF0	
-	-2-0-0 1-9-7	' 1-11 ₁ -1 4-3-0	6-6-1	5	6 ₁ 8 ₁ 9 8-6-0	10-6-0	
	2-0-0 1-9-7	' 0-1-9 2-3-15	2-3-1	5	0-1-9 1-9-7	2-0-0	

Scale = 1:23.0



	0-7-2	1-2-6)-1-9 2-3-15	· · · · · · · · · · · · · · · · · · ·	2-3-15	0-1-9 1	-1-7 0-8	8-0		
Plate Offsets (X,Y)	[2:0-3-8,Edge], [2:0-2-8,E	dge], [6:0-3-8,I	Edge], [6:0-2-8,Edge]							
LOADING (psf) TCLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	CSI. TC 0.35	DEFL. Vert(LL)	in (loc)	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190	

6-6-15

6₇8₇9 7-10-0

8-6-0

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

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

4-3-0

TCDL 10.0 Lumber DOL 1.25 вс 0.60 Vert(CT) -0.02 2-8 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-P Wind(LL) 0.01 >999 240 Weight: 42 lb FT = 20% 2-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 3) 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.
- 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) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

0-7-2 1-9-7 1-11-1

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=145, 6=145.



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April 22,2025



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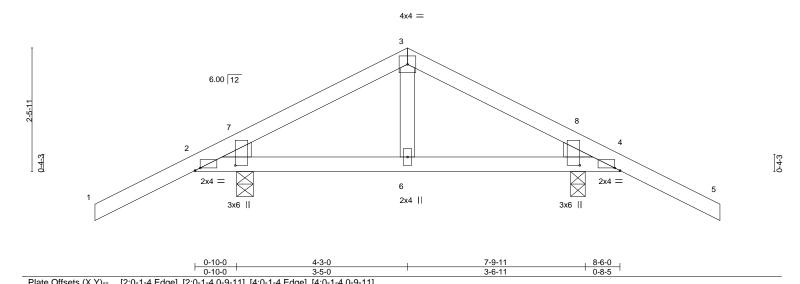


Job Truss Truss Type Qty Ply 1820-B-Tray T37079479 6250379 3 E02 Common Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:21 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-CT2OodvHGySfxSPz04eYLBK6K6ZUQnphaZtDuSzOŠF0 4-3-0 10-6-0

4-3-0

Scale = 1:23.0

2-0-0



Fide Offsets (A, 1) [2.0-1-4, Luge], [2.0-1-4,0-3-11], [4.0-1-4, Luge], [4.0-1-4,0-3-11]					
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%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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)

2-0-0

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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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=146, 4=145.



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

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

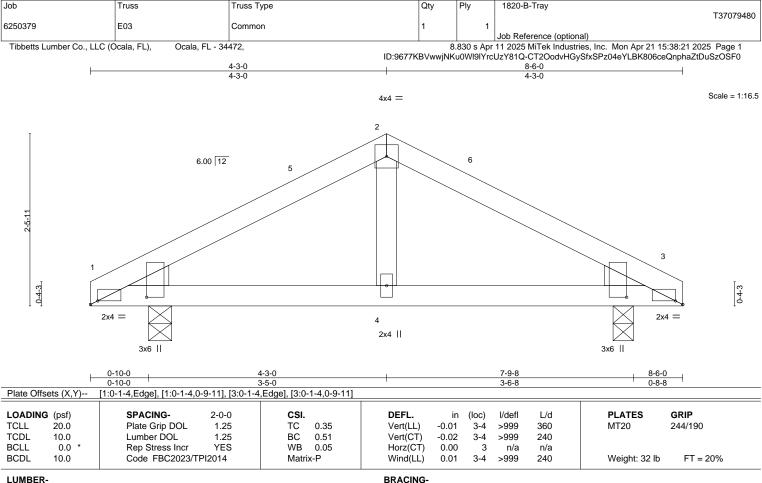
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 22,2025



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





TOP CHORD

BOT CHORD

LUMBER-

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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) 1, 3.



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

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

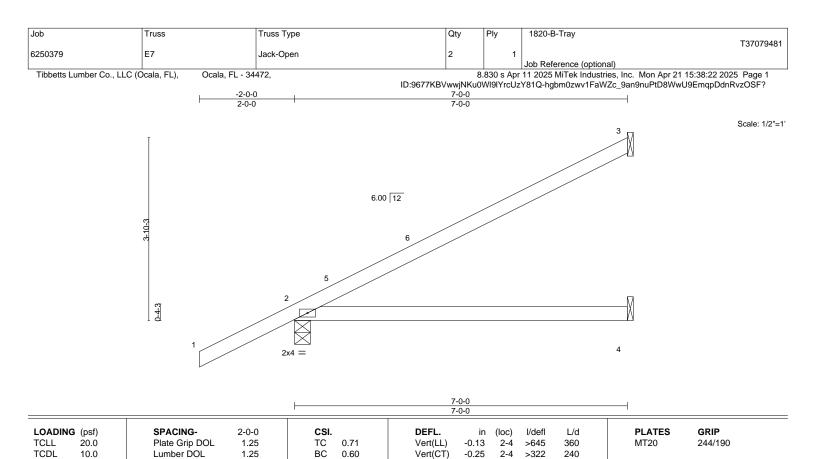
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April 22,2025



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BCLL

BCDL

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

0.0

10.0

Wind(LL) BRACING-

Horz(CT)

-0.00

0.00

3

n/a

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

Weight: 26 lb

FT = 20%

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

n/a

240

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)

Rep Stress Incr

Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(LC 3)

Code FBC2023/TPI2014

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

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

WB

Matrix-P

0.00

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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.



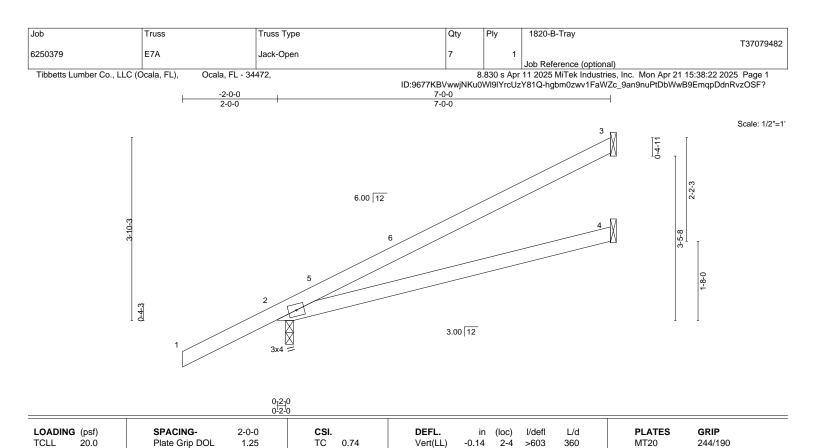
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April 22,2025



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TCDL

BCLL

BCDL

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

0.0

10.0

Wind(LL) BRACING-

Vert(CT)

Horz(CT)

-0.27

-0.00

0.00

>301

n/a

3

240

n/a

240

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

Weight: 26 lb

FT = 20%

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 2=0-2-0

Code FBC2023/TPI2014

Max Horz 2=118(LC 12)

Max Uplift 3=-64(LC 12), 2=-60(LC 12)

Lumber DOL

Rep Stress Incr

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.

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

вс

WB

Matrix-P

0.62

0.00

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

YES

- 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.



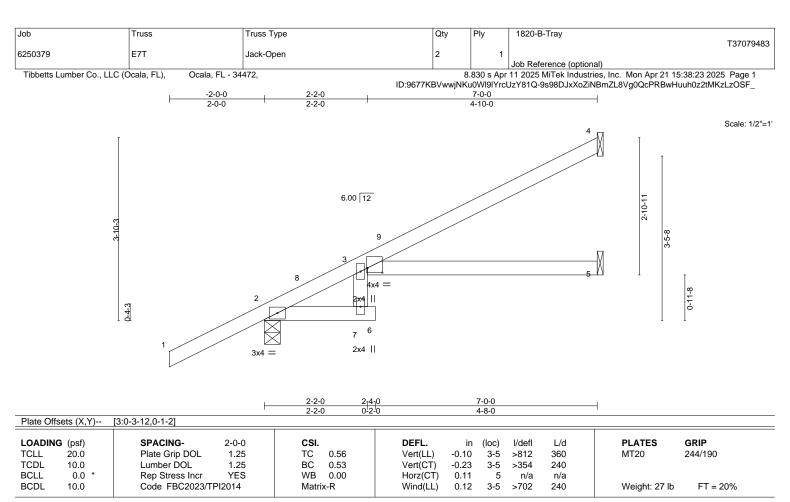
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April 22,2025



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

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-0, 5=Mechanical

Max Horz 2=119(LC 12)

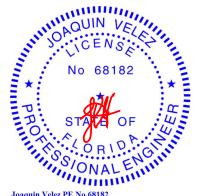
Max Uplift 4=-41(LC 12), 2=-61(LC 12)

Max Grav 4=160(LC 1), 2=426(LC 1), 5=121(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) 4, 2.



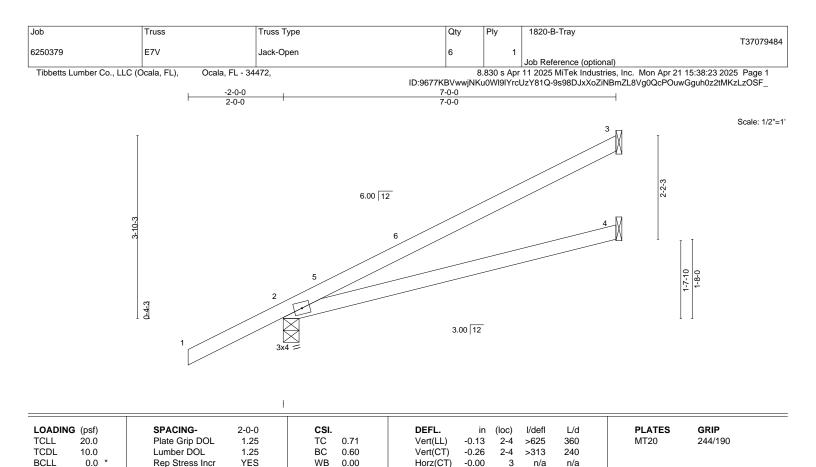
Joaquin Velez PE No.68182 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 22,2025



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





BCDL

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

10.0

Wind(LL) BRACING- 0.00

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

Weight: 26 lb

FT = 20%

240

REACTIONS.

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical

Code FBC2023/TPI2014

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.

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

Matrix-P

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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 Date:

April 22,2025







Job Truss Truss Type Qty Ply 1820-B-Tray T37079485 6250379 G01 2 Common 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-9s98DJxXoZiNBmZL8Vg0QcPSzwH5ugXz2tMKzLzOŠF_ 10-0-0 16-0-15 20-0-0 22-0-0

6-0-15

6-0-15

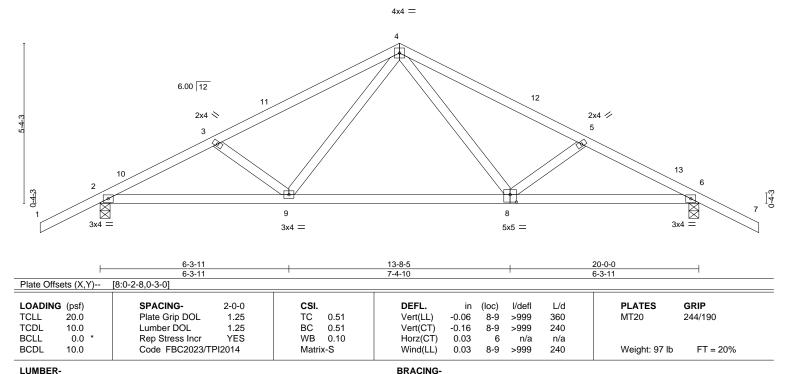
Scale = 1:38.5

2-0-0

3-11-1

Structural wood sheathing directly applied or 4-7-4 oc purlins.

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



TOP CHORD

BOT CHORD

LUMBER-

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

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

WFBS 4-8=-2/422, 5-8=-293/149, 4-9=-2/422, 3-9=-293/149

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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) 2, 6.



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April 22,2025



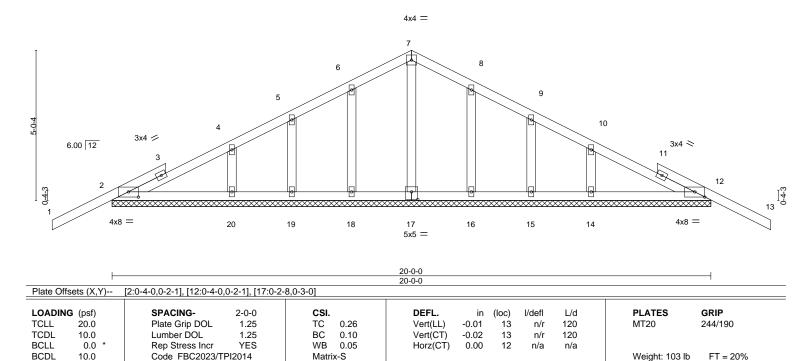
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Job Truss Truss Type Qty Ply 1820-B-Tray T37079486 6250379 Common Supported Gable G01X Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:24 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-d2jWQfy9ZtqDov8YiCBFzqygeKkjd8V7GX6tUnzOSEz 1-11-1 0-1-9 10-0-0 18_T2-9 20-0-0 0-1-9 1-9-7

Scale = 1:38.5

2-0-0



LUMBER-

OTHERS

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

2x4 SP No.2

BRACING-

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

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

8-0-15

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)

8-0-15

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 3) 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.
- 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) 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



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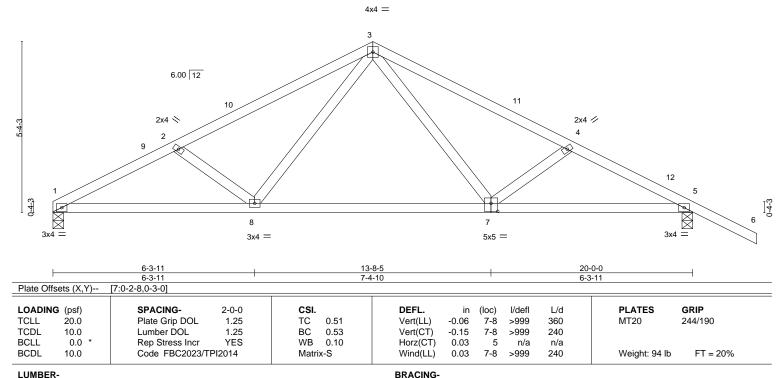
Job Truss Truss Type Qty Ply 1820-B-Tray T37079487 6250379 COMMON 6 G02 Job Reference (optional) Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:24 2025 Page 1 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-d2jWQfy9ZtqDov8YiCBFzqychKd7d7j7GX6tUnzOSEz 10-0-0 20-0-0 3-11-1

6-0-15

6-0-15

Scale = 1:36.0

2-0-0



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 WFBS

2x4 SP No.2

(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 WFBS 3-7=-0/421, 4-7=-293/150, 3-8=-14/435, 2-8=-326/161

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=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
- 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) 1, 5.



Structural wood sheathing directly applied or 4-6-12 oc purlins.

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

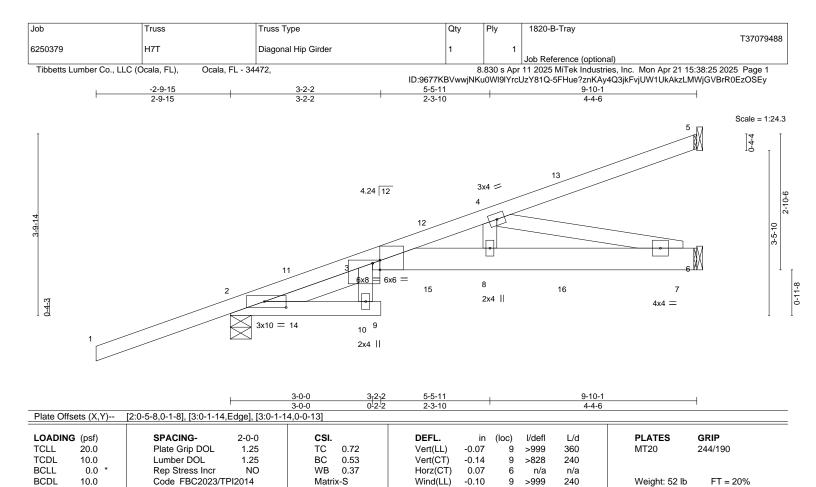
MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD 2x4 SP No.2 *Except* 3-6: 2x6 SP No.2 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-

- 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); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=160.
- 7) 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 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.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-60, 3-5=-60, 2-10=-20, 9-10=-20, 3-6=-20

No 68182 No 68182 No 68182 Joaquin Velez PE No.68182 Joaquin Velez PE No.68182

Structural wood sheathing directly applied or 4-9-5 oc purlins.

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

6-0-0 oc bracing: 2-10.

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

April 22,2025

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,

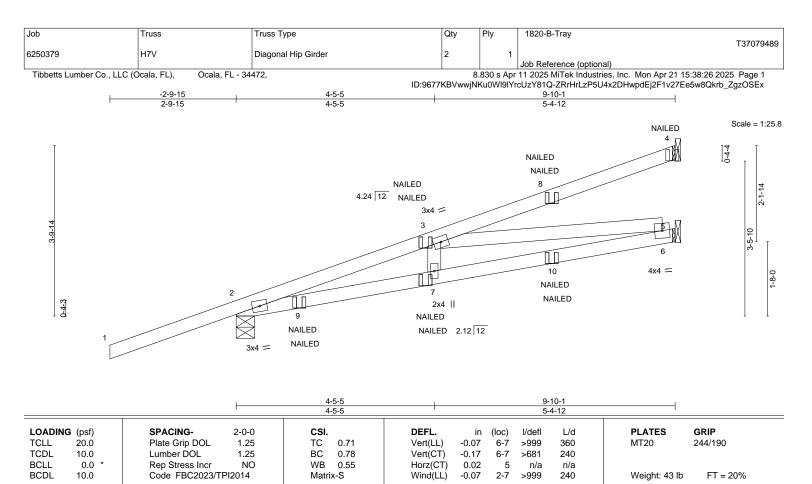
8.830 s Apr 11 2025 MiTek Industries, Inc. Mon Apr 21 15:38:25 2025 Page 2 ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-5FHue?znKAy4Q3jkFvjUW1UkAkzLMWjGVBrR0EzOŠEy

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)





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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-2 oc purlins.

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

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical

Max Horz 2=118(LC 8)

Max Uplift 4=-106(LC 8), 2=-186(LC 8)

Max Grav 4=309(LC 1), 2=628(LC 31), 5=273(LC 3)

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

TOP CHORD 2-3=-1288/71

BOT CHORD 2-7=-117/1182 6-7=-122/1181

WEBS 3-6=-1155/112

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); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) 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) except (jt=lb) 4=106, 2=186.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 4=-142(F) 8=-58(F=-29, B=-29) 9=100(F=50, B=50) 10=-39(F=-19, B=-19)



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April 22,2025

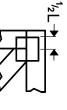


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

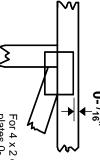


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

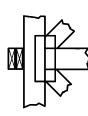
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

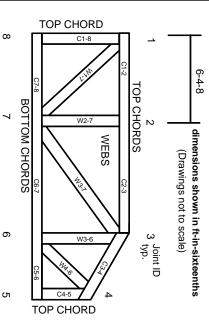
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.