



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

RE: 6241955 - 2508-CR-2 Car

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Model: 2508-CR-2 Car

314-434-1200

Site Information:

Customer Info: Adams Homes-Gainesville

Project Name: The Preserve at Laurel Lake

Lot/Block: 142

Subdivision: The Preserve at Laurel Lake

Address: SW Silver Palm Dr , -

City: Lake City

State: fl

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2023/TPI2014

Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-22

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 41 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T34534201	A01	7/25/24	23	T34534223	B02	7/25/24
2	T34534202	A02	7/25/24	24	T34534224	C1	7/25/24
3	T34534203	A03	7/25/24	25	T34534225	C3	7/25/24
4	T34534204	A04	7/25/24	26	T34534226	C5	7/25/24
5	T34534205	A05	7/25/24	27	T34534227	E01	7/25/24
6	T34534206	A06	7/25/24	28	T34534228	E01X	7/25/24
7	T34534207	A07	7/25/24	29	T34534229	E02	7/25/24
8	T34534208	A08	7/25/24	30	T34534230	E02X	7/25/24
9	T34534209	A09	7/25/24	31	T34534231	E7	7/25/24
10	T34534210	A10	7/25/24	32	T34534232	E7B	7/25/24
11	T34534211	A11	7/25/24	33	T34534233	E7V	7/25/24
12	T34534212	A11A	7/25/24	34	T34534234	E7VA	7/25/24
13	T34534213	A12	7/25/24	35	T34534235	E7VB	7/25/24
14	T34534214	A13	7/25/24	36	T34534236	E7VC	7/25/24
15	T34534215	A14	7/25/24	37	T34534237	H7	7/25/24
16	T34534216	A15	7/25/24	38	T34534238	PB1	7/25/24
17	T34534217	A16	7/25/24	39	T34534239	PB2	7/25/24
18	T34534218	A17	7/25/24	40	T34534240	PB3	7/25/24
19	T34534219	A18	7/25/24	41	T34534241	PB4	7/25/24
20	T34534220	A19	7/25/24				
21	T34534221	B01	7/25/24				
22	T34534222	B01X	7/25/24				

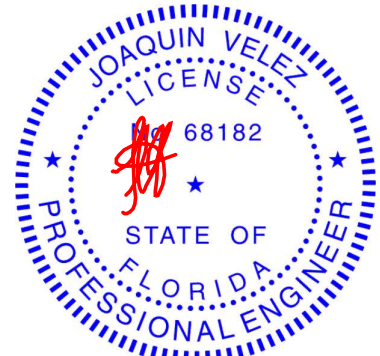


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Tibbetts Lumber Co., LLC.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2025.

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



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

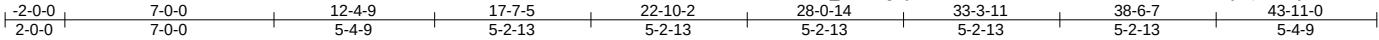
July 25,2024

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534201
6241955	A01	Half Hip Girder	1	2	Job Reference (optional)	

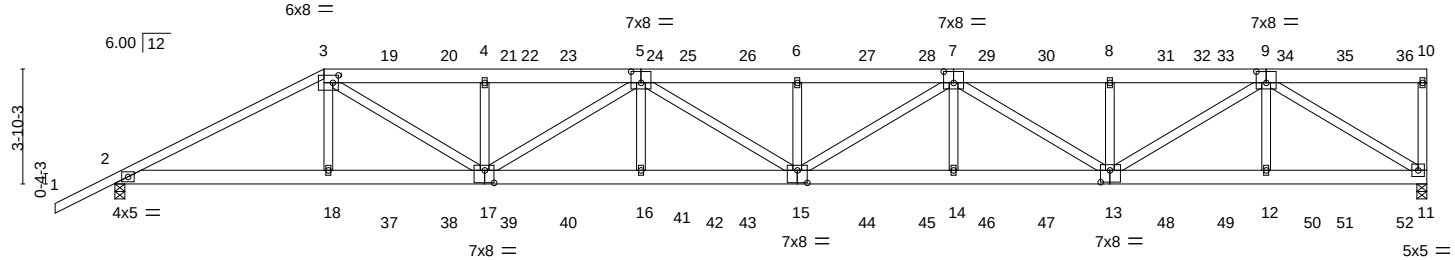
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:43 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-f2cEOvzVzUm0zLfa7K3HvNytQ2NHsjkV9c2TSYyusww



Scale = 1:77.1



	7-0-0	12-4-9	17-7-5	22-10-2	28-0-14	33-3-11	38-6-7	43-11-0
	7-0-0	5-4-9	5-2-13	5-2-13	5-2-13	5-2-13	5-2-13	5-4-9
Plate Offsets (X,Y)--	[3:0-2-4,0-3-0], [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [9:0-4-0,0-4-8], [13:0-3-12,0-4-12], [15:0-4-0,0-5-0], [17:0-3-12,0-5-0]							

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.40	15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.82	15	>641		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.17	11	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.27	15	>999	Weight: 597 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2 *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
15-17: 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

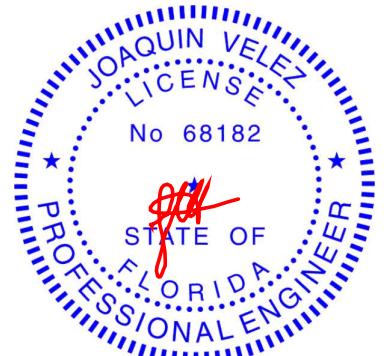
(size) 11=0-4-0, 2=0-4-0
Max Horz 2=119(LC 27)
Max Uplift 11=261(LC 8), 2=229(LC 8)
Max Grav 11=3631(LC 1), 2=3443(LC 1)

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

TOP CHORD 2-3=-6883/334, 3-4=-9345/592, 4-5=-9343/591, 5-6=-11550/791, 6-7=-11550/791,
7-8=-8477/597, 8-9=-8477/597, 10-11=-310/94
BOT CHORD 2-18=-324/6066, 17-18=-316/6086, 16-17=-744/11142, 15-16=-744/11142,
14-15=-747/10682, 13-14=-747/10682, 12-13=-356/4974, 11-12=-356/4974
WEBS 3-18=0/661, 3-17=-326/3928, 4-17=-715/217, 5-17=-2163/182, 5-16=0/464,
5-15=-65/519, 6-15=-612/200, 7-15=-52/1033, 7-14=0/453, 7-13=-2628/178,
8-13=-612/194, 9-13=-287/4173, 9-12=0/491, 9-11=-5865/420

NOTES-

- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=261, 2=229.



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

July 25,2024

Continued on page 2

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

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

MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534201
6241955	A01	Half Hip Girder	1	2	Job Reference (optional)	

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 86 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, 122 lb down and 83 lb up at 13-0-12, 122 lb down and 83 lb up at 15-0-12, 122 lb down and 83 lb up at 17-0-12, 122 lb down and 83 lb up at 19-0-12, 122 lb down and 83 lb up at 21-0-12, 122 lb down and 83 lb up at 23-0-12, 122 lb down and 83 lb up at 25-0-12, 122 lb down and 83 lb up at 27-0-12, 122 lb down and 83 lb up at 29-0-12, 122 lb down and 83 lb up at 31-0-12, 122 lb down and 83 lb up at 33-0-12, 122 lb down and 83 lb up at 35-0-12, 122 lb down and 83 lb up at 37-0-12, 122 lb down and 83 lb up at 39-0-12, and 122 lb down and 83 lb up at 41-0-12, and 131 lb down and 80 lb up at 43-0-12 on top chord, and 310 lb down at 7-0-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 95 lb down at 13-0-12, 95 lb down at 15-0-12, 95 lb down at 17-0-12, 95 lb down at 19-0-12, 95 lb down at 21-0-12, 95 lb down at 23-0-12, 95 lb down at 25-0-12, 95 lb down at 27-0-12, 95 lb down at 29-0-12, 95 lb down at 31-0-12, 95 lb down at 33-0-12, 95 lb down at 35-0-12, 95 lb down at 37-0-12, 95 lb down at 39-0-12, and 95 lb down at 41-0-12, and 101 lb down at 43-0-12 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: 1-3=-60, 3-10=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-122(F) 18=-262(F) 15=-48(F) 6=-122(F) 13=-48(F) 8=-122(F) 19=-122(F) 20=-122(F) 21=-122(F) 23=-122(F) 24=-122(F) 25=-122(F) 26=-122(F) 27=-122(F) 28=-122(F) 29=-122(F) 30=-122(F) 31=-122(F) 33=-122(F) 34=-122(F) 35=-122(F) 36=-131(F) 37=-48(F) 38=-48(F) 39=-48(F) 40=-48(F) 41=-48(F) 42=-48(F) 43=-48(F) 44=-48(F) 45=-48(F) 46=-48(F) 47=-48(F) 48=-48(F) 49=-48(F) 50=-48(F) 51=-48(F) 52=-51(F)

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

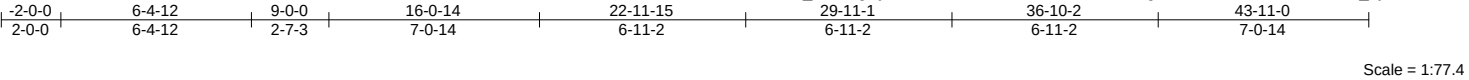
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

MiTek®

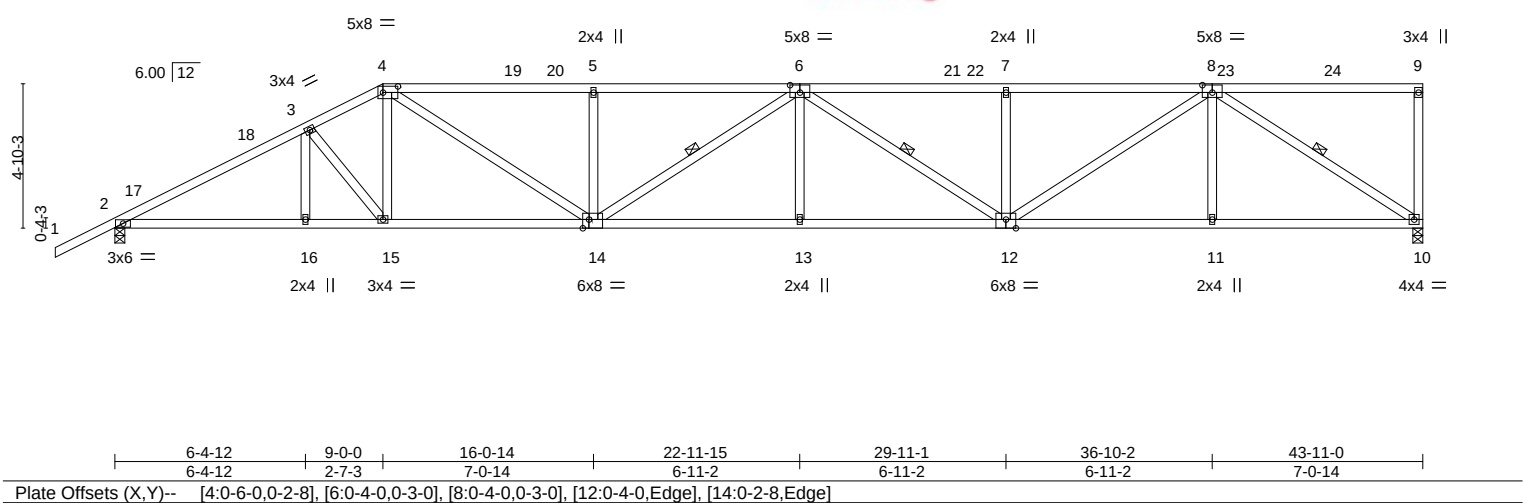
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534202
6241955	A02	Half Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:44 2024 Page 1
ID:Ts3RJ0261_Xu2fygSyBHAWZZSLZ-7FAdbFz7kntbVEmg1bWRaV3kSm4bAYeNgN0_?yusww



Bracing



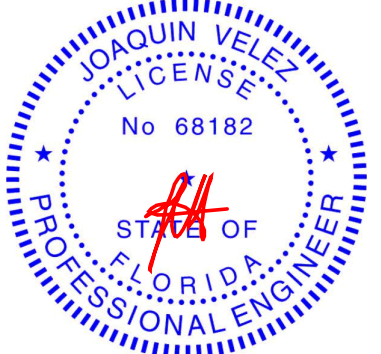
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.34 13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.69 13-14	>761	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.20 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.20 13	>999	240	Weight: 243 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 4-6: 2x4 SP M 31 or 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 12-14: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-14, 6-12, 8-10

REACTIONS.	(size) 10=0-4-0, 2=0-4-0
Max Horz	2=144(LC 12)
Max Uplift	10=-80(LC 12), 2=-133(LC 12)
Max Grav	10=1741(LC 1), 2=1877(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3340/213, 3-4=-3064/231, 4-5=-3923/274, 5-6=-3923/275, 6-7=-3670/232, 7-8=-3670/232
BOT CHORD	2-16=-261/2886, 15-16=-261/2886, 14-15=-216/2711, 13-14=-276/4212, 12-13=-276/4212, 11-12=-145/2302, 10-11=-145/2302
WEBS	3-15=-292/69, 4-15=0/362, 4-14=-80/1441, 5-14=-447/132, 6-14=-346/16, 6-13=0/275, 6-12=-649/52, 7-12=-407/111, 8-12=-106/1637, 8-11=0/299, 8-10=-2721/171

- 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=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 43-9-4 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) Provide adequate drainage to prevent water ponding.
 - 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) 10 except (jt=lb) 2=133.

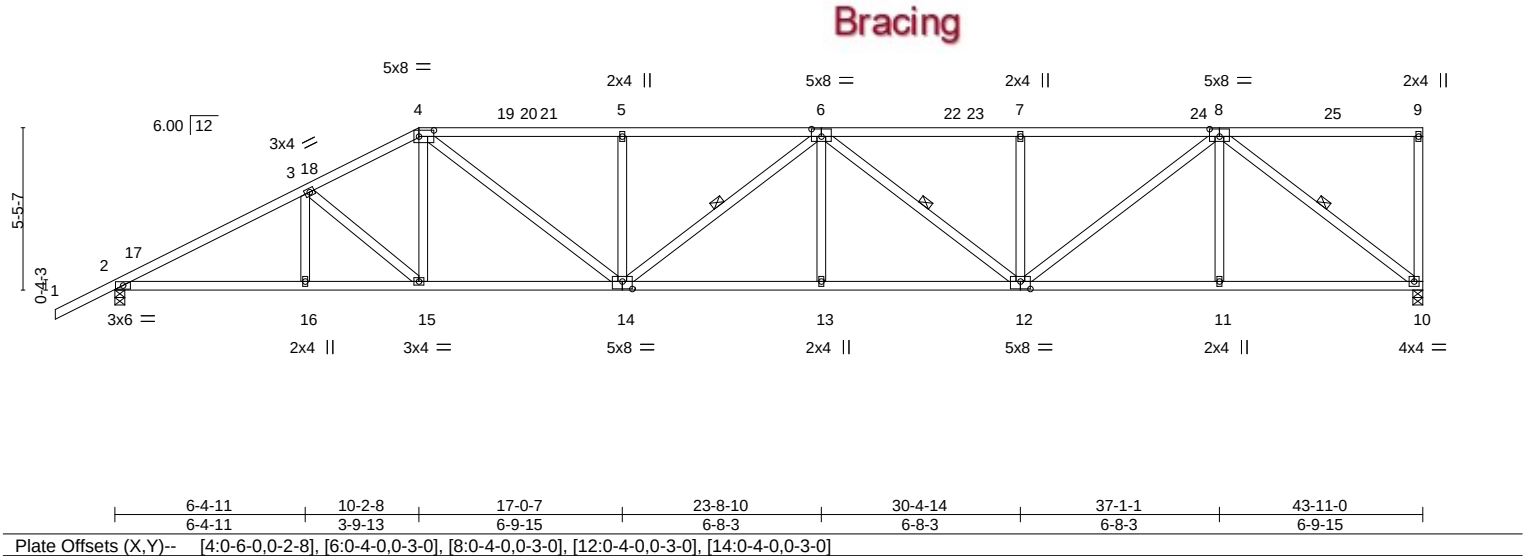


Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534203
6241955	A03	Half Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:44 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-7FAdbFz7knutbVEmg1bWRaV3dSkkbBPnGn0_?yuswv
2-0-0 6-4-11 10-2-8 17-0-7 23-8-10 30-4-14 37-1-1 43-11-0
2-0-0 6-4-11 3-9-13 6-9-15 6-8-3 6-8-3 6-8-3 6-9-15
Scale = 1:77.4



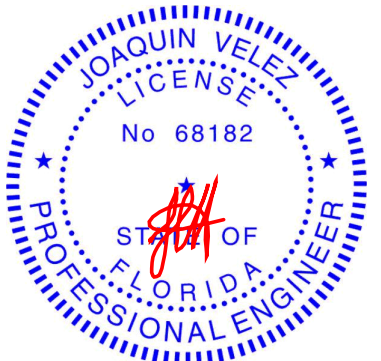
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL)	-0.29 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.90	Vert(CT)	-0.61 13-14	>860	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Horz(CT)	0.20 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL)	0.18 13-14	>999	240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 2-2-3 oc purlins, except end verticals.
4-6: 2x4 SP M 31 or 2x4 SP SS	
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-14, 6-12, 8-10

REACTIONS.	(size) 10=0-4-0, 2=0-4-0
	Max Horz 2=158(LC 12)
	Max Uplift 10=-82(LC 12), 2=-132(LC 12)
	Max Grav 10=1741(LC 1), 2=1877(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3343/209, 3-4=-2982/223, 4-5=-3543/257, 5-6=-3542/257, 6-7=-3177/207, 7-8=-3177/207
BOT CHORD	2-16=-273/2889, 15-16=-273/2889, 14-15=-218/2624, 13-14=-251/3700, 12-13=-251/3700, 11-12=-128/1973, 10-11=-128/1973
WEBS	3-15=-356/71, 4-15=0/381, 4-14=-61/1151, 5-14=-433/128, 6-13=0/265, 6-12=-661/55, 7-12=-393/107, 8-12=-102/1521, 8-11=0/289, 8-10=-2464/159

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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 10-2-8, Zone2 10-2-8 to 14-5-7, Zone1 14-5-7 to 43-9-4 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=132.



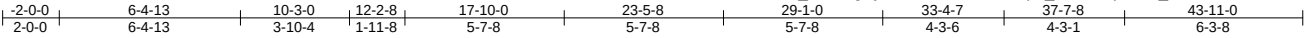
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534204
6241955	A04	Hip	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:45 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAwZSLZ-bRk?pb_IV50kCfpzEI6I_o2DMS6WKfxcwXZWRYuswu



Scale = 1:81.4

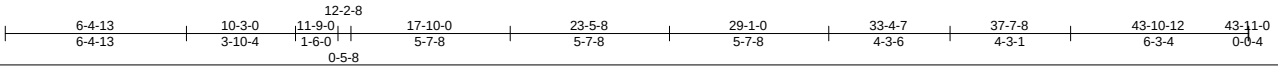
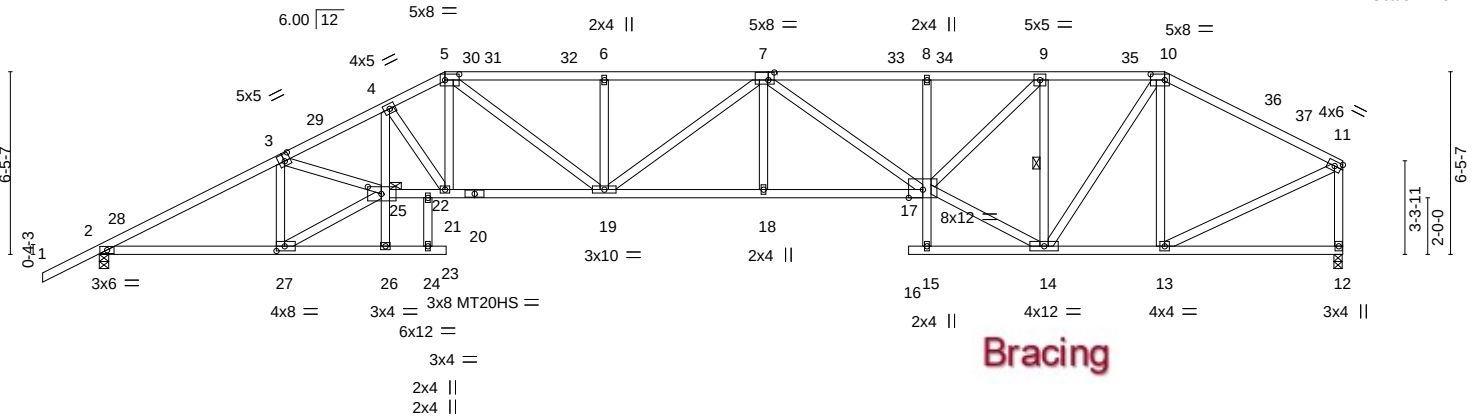


Plate Offsets (X,Y)--		[3:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-2-8,0-3-4], [10:0-6-0,0-2-8], [25:0-5-12,0-3-0], [27:0-3-8,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81
TCDL 10.0	Lumber DOL	1.25	BC 0.80
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.43 18-19 >999 360
			Vert(CT) -0.87 18-19 >599 240
			Horz(CT) 0.40 12 n/a n/a
			Wind(LL) 0.26 18-19 >999 240
			PLATES GRIP
			MT20 244/190
			MT20HS 187/143
			Weight: 284 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
20-25,17-20: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

REACTIONS.

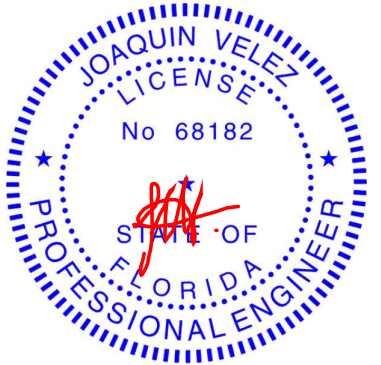
(size) 2=0-4-0, 12=0-3-8
Max Horz 2=108(LC 12)
Max Uplift 2=-128(LC 12), 12=-70(LC 12)
Max Grav 2=1891(LC 1), 12=1753(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3382/208, 3-4=-4945/360, 4-5=-4112/312, 5-6=-4470/336, 6-7=-4469/336,
7-8=-4124/310, 8-9=-4093/309, 9-10=-2271/211, 10-11=-1814/153, 11-12=-1692/161
BOT CHORD 2-27=-212/2924, 4-25=-80/1222, 22-25=-285/4370, 21-22=-285/4369, 19-21=-211/3708,
18-19=-254/4624, 17-18=-254/4624, 8-17=-297/85, 13-14=-80/1534
WEBS 3-27=-1464/186, 25-27=-237/3224, 3-25=-71/1470, 4-21=-1185/127, 5-21=-39/1008,
5-19=-63/1058, 6-19=-347/107, 7-19=-300/4, 7-17=-646/36, 14-17=-135/2444,
9-17=-139/2584, 9-14=-2067/170, 10-14=-82/1336, 10-13=-615/109, 11-13=-82/1671

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 12-2-8, Zone2 12-2-8 to 16-5-7, Zone1 16-5-7 to 37-7-8, Zone2 37-7-8 to 41-10-7, Zone1 41-10-7 to 43-9-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=128.



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

July 25,2024

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

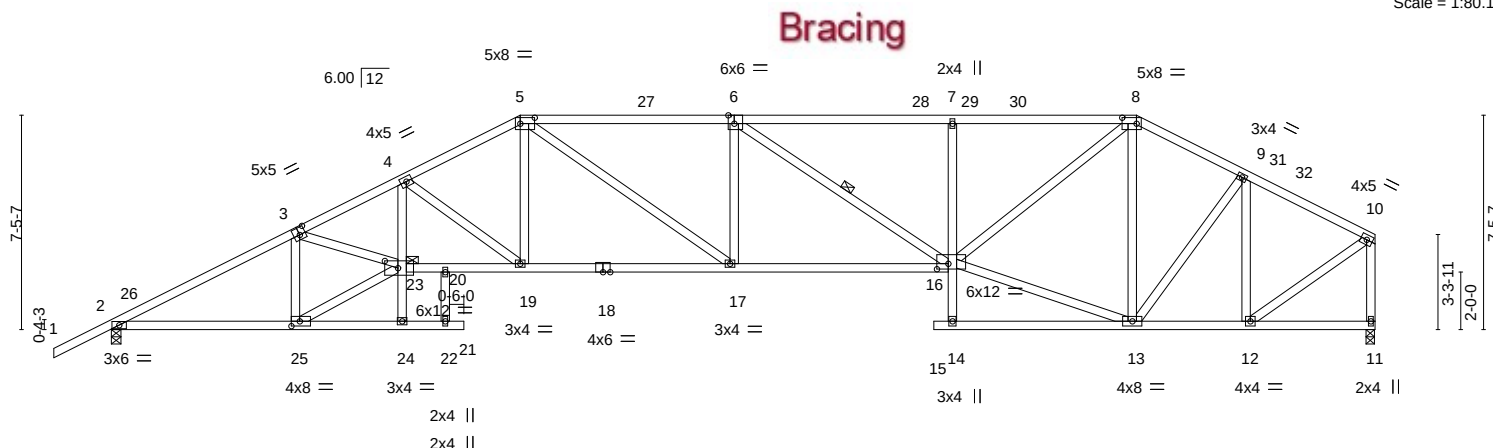
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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ID:Ts3RJ0261 Xu2fYgSvBHAWzZSLZ-3dIN0x?NGP8bqpO9oSd W?aPvGSI36xxraG73tvusw

-2-0-0	6-4-13	10-5-4	14-2-8	21-7-12	29-1-0	35-7-8	39-5-4	43-11-0
2-0-0	6-4-13	4-0-8	3-9-4	7-5-4	7-5-4	6-6-8	3-9-12	4-5-12

Scale = 1:80.1



	6-4-13	10-3-0	11-9-0	14-2-8	21-7-12	29-1-0	35-7-8	39-5-4	43-10-12	43-11-0
Plate Offsets (X,Y)--	6-4-13	3-10-4	1-6-0 ¹	2-5-8	7-5-4	7-5-4	6-6-8	3-9-12	4-5-8	0-0-4
	[3:0-2-8,0-3-0]	[5:0-6-0,0-2-8]	[6:0-2-8,Edge]	[8:0-6-0,0-2-8]	[16:0-4-12,0-2-4]	[23:0-5-8,0-3-0]	[25:0-3-8,0-2-0]			

LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25	TC 0.76	Vert(LL) -0.32 17-19	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL 1.25	BC 0.80	Vert(CT) -0.68 17-19	>767	240		
BCLL 0.0 *		Rep Stress Incr YES	WB 0.74	Horz(CT) 0.33 11	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.20 17-19	>999	240	Weight: 284 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	5-6: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP No.2 *Except*
	18-23,16-18: 2x4 SP M 31 or 2x4 SP SS
WEBS	2x4 SP No.2

REACTIONS.

(size) 2=0-4-0, 11=0-3-8
 Max Horz 2=108(LC 12)
 Max Uplift 2=-128(LC 12), 11=-70(LC 12)
 Max Grav 2=1891(LC 1), 11=1753(LC 1)

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

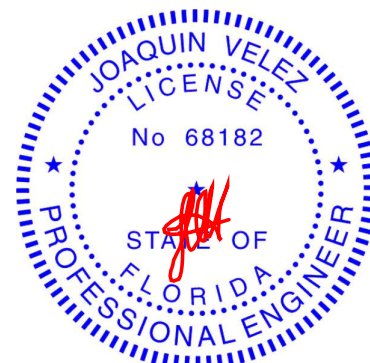
TOP CHORD 2-3=-3381/206, 3-4=-4941/357, 4-5=-3663/288, 5-6=-3784/308, 6-7=-3356/287,
7-8=-3340/290, 8-9=-1901/191, 9-10=-1538/132, 10-11=-1708/151

BOT CHORD 2-25=-209/2923, 4-23=-52/1210, 20-23=-288/4383, 19-20=-289/4381, 17-19=-173/3270,
16-17=-199/3784, 7-16=-437/129, 12-13=-81/1328

WEBS 3-25=-1454/179, 23-25=-227/3209, 3-23=-74/1743, 4-19=-1407/144, 5-19=-8/925,
5-17=-42/785, 6-17=-280/1262, 6-16=-570/32, 13-16=-82/1659, 8-16=-134/2189,
8-13=-825/58, 9-13=0/595, 9-12=-853/104, 10-12=-96/1600

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 14-2-8, Zone2 14-2-8 to 18-5-7, Zone1 18-5-7 to 35-7-8, Zone2 35-7-8 to 39-10-7, Zone1 39-10-7 to 43-9-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=128.



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

July 25, 2024



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534206
6241955	A06	Hip	1	1	Job Reference (optional)	

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

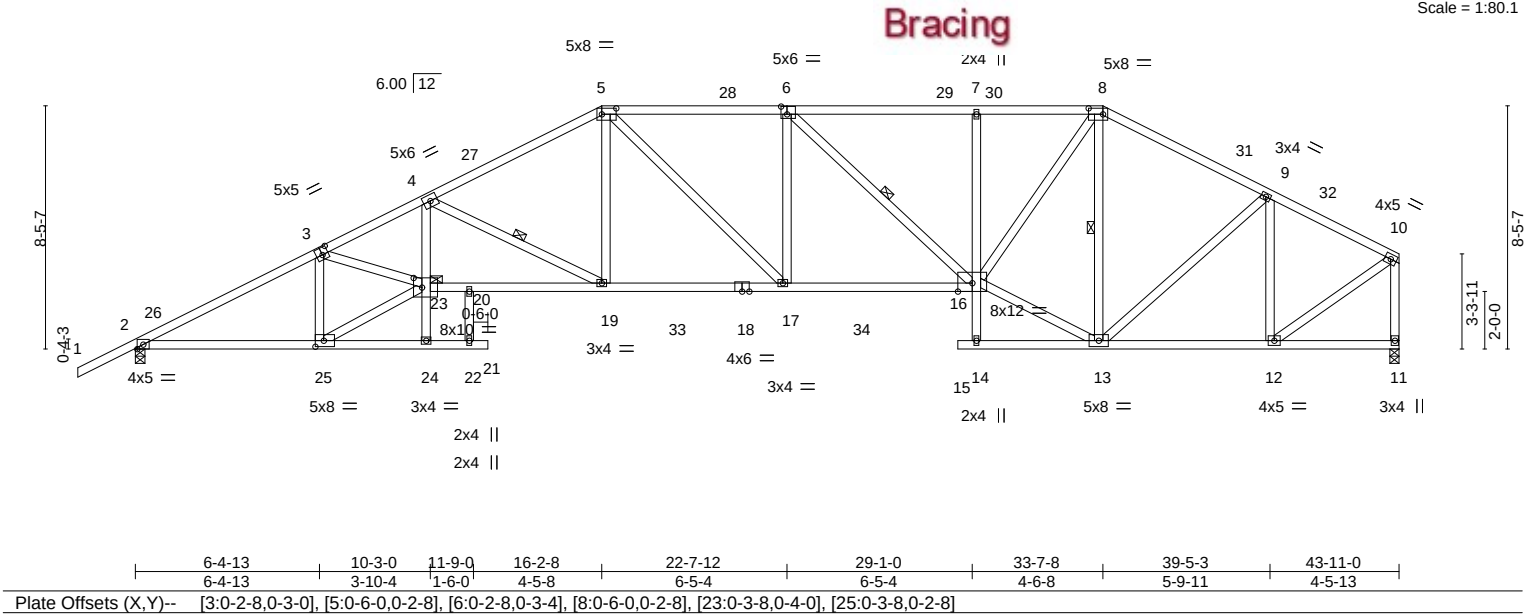
Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:47 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-XqslEH0?1iGSSyzLMA8D3D7WpglLoY144E0gbKysws

-2-0-0	6-4-13	10-3-0	16-2-8	22-7-12	29-1-0	33-7-8	39-5-3	43-11-0
2-0-0	6-4-13	3-10-4	5-11-8	6-5-4	6-5-4	4-6-8	5-9-11	4-5-13

Scale = 1:80.1



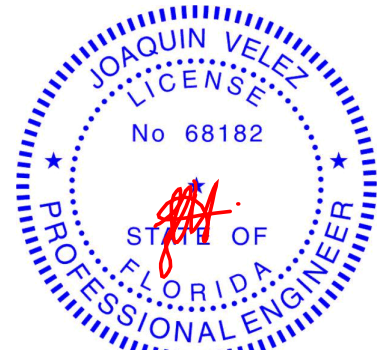
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 1.00	Vert(LL)	-0.37 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.67 17-19	>778	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.80	Horz(CT)	0.35 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.18 19	>999	240	Weight: 291 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
18-23,16-18: 2x4 SP M 31 or 2x4 SP SS	2-2-0 oc bracing: 2-25.
WEBS 2x4 SP No.2	10-0-0 oc bracing: 14-16
	1 Row at midpt 4-19, 6-16, 8-13
	WEBS JOINTS 1 Brace at Jt(s): 23

REACTIONS.	(size) 2=0-4-0, 11=0-3-13
	Max Horz 2=122(LC 11)
	Max Uplift 2=128(LC 12), 11=70(LC 12)
	Max Grav 2=2117(LC 17), 11=1944(LC 38)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-3832/206, 3-4=-5700/351, 4-5=-3769/275, 5-6=-3560/289, 6-7=-3104/269, 7-8=-3088/268, 8-9=-2177/205, 9-10=-1709/132, 10-11=-1881/147
BOT CHORD	2-25=-210/3408, 4-23=-19/1507, 20-23=-295/5168, 19-20=-296/5162, 17-19=-144/3374, 16-17=-155/3591, 7-16=-338/103, 12-13=-84/1491
WEBS	3-25=-1621/167, 23-25=-208/3731, 3-23=-75/1765, 4-19=-2024/169, 5-19=0/1130, 5-17=-27/505, 6-16=-624/33, 13-16=-69/2032, 8-16=-109/2156, 8-13=-1044/87, 9-13=0/574, 9-12=-851/128, 10-12=-101/1805

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=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 16-2-8, Zone2 16-2-8 to 20-5-7, Zone1 20-5-7 to 33-7-8, Zone2 33-7-8 to 37-10-7, Zone1 37-10-7 to 43-9-4 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
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=128.



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

July 25,2024

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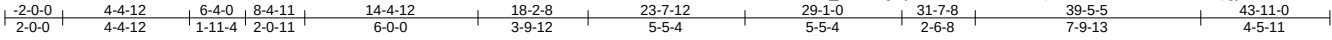
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534207
6241955	A07	Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:48 2024 Page 1

ID:Ts3RJ0261_Xu2fygSyBHAwZSLZ-?0Q7Rd0do0OI36YXvtfScQgIB35UXzIElulE7myuswr



Scale = 1:79.8

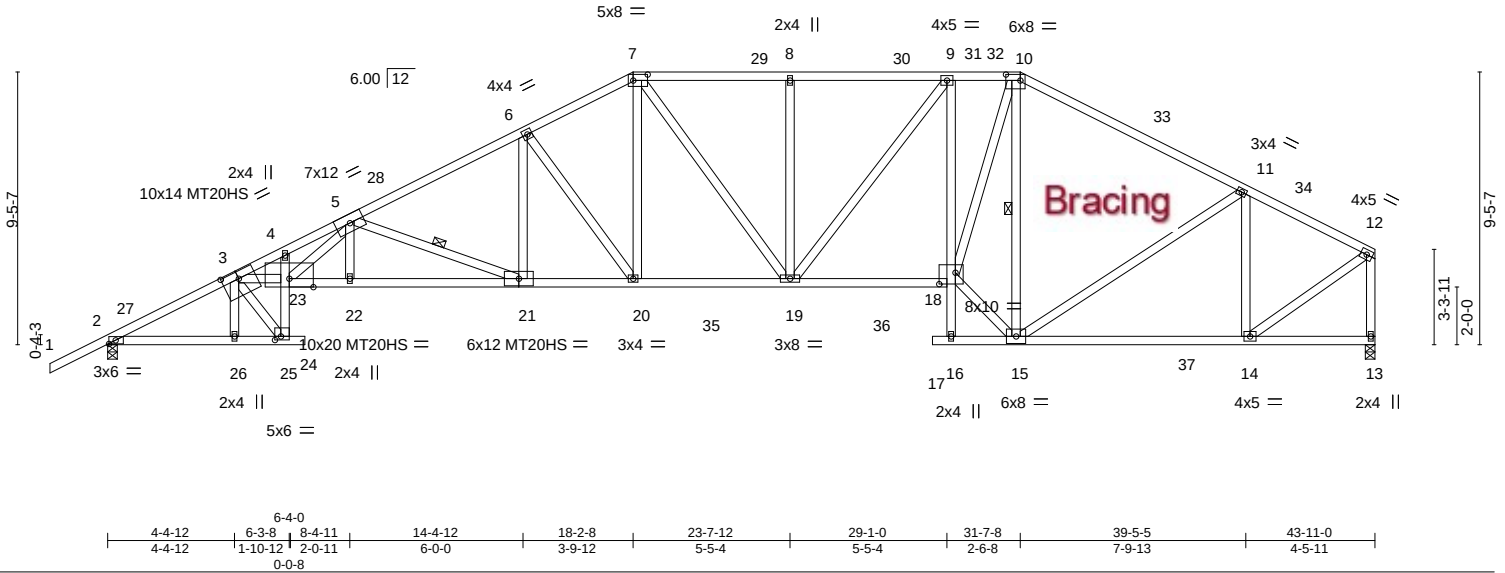


Plate Offsets (X,Y)--		[2:0-2-12,0-1-8], [3:0-7-0,0-3-0], [7:0-6-0,0-2-8], [10:0-6-0,0-2-8], [18:0-6-12,0-4-12], [25:0-2-8,0-1-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	-0.54	24	>961	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-1.01	21-22	>517	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.62	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.27	24	>999	240	Weight: 307 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 or 2x4 SP SS *Except*
7-10,1-3: 2x4 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except*
9-16,13-17,18-21: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
3-23: 2x4 SP M 31 or 2x4 SP SS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
6-0-0 oc bracing: 16-18
10-0-0 oc bracing: 23-25
WEBS 1 Row at midpt 5-21, 10-15

REACTIONS.

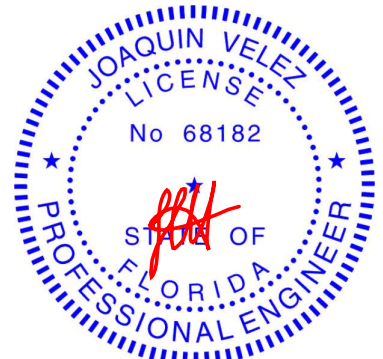
(size) 2=0-4-0, 13=0-4-0
Max Horz 2=138(LC 11)
Max Uplift 2=127(LC 12), 13=70(LC 12)
Max Grav 2=2108(LC 17), 13=1978(LC 18)

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

TOP CHORD 2-3=-3798/191, 3-4=-9571/571, 4-5=-9640/584, 5-6=-4176/299, 6-7=-3336/288,
7-8=-3033/278, 8-9=-3033/279, 9-10=-2780/261, 10-11=-2242/213, 11-12=-1754/132,
12-13=-1934/142
BOT CHORD 2-26=-211/3393, 25-26=-213/3398, 23-25=-260/4325, 22-23=-368/6146, 21-22=-368/6146,
20-21=-194/3732, 19-20=-118/3003, 18-19=-106/2840, 9-18=-546/83, 14-15=-89/1553
WEBS 3-25=-5056/318, 3-23=-489/8238, 5-23=-219/3696, 5-22=0/326, 5-21=-2576/185,
6-21=-3/1069, 6-20=-1248/128, 7-20=-53/1174, 7-19=-22/328, 8-19=-370/112,
9-19=-29/418, 15-18=-70/2682, 10-18=-122/2765, 10-15=-1919/123, 11-15=0/513,
11-14=-839/150, 12-14=-110/1895

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=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 18-2-8, Zone2 18-2-8 to 22-5-7, Zone1 22-5-7 to 31-7-8, Zone2 31-7-8 to 35-10-7, Zone1 35-10-7 to 43-9-4 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
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=127.



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

July 25,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534208
6241955	A08	Hip	1	1	Job Reference (optional)	

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

Ocala, FL - 34472,

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ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-?0Q7Rd0do0OI36YXvtfScQgoV37dX4jElulE7myuswr



Scale = 1:79.6

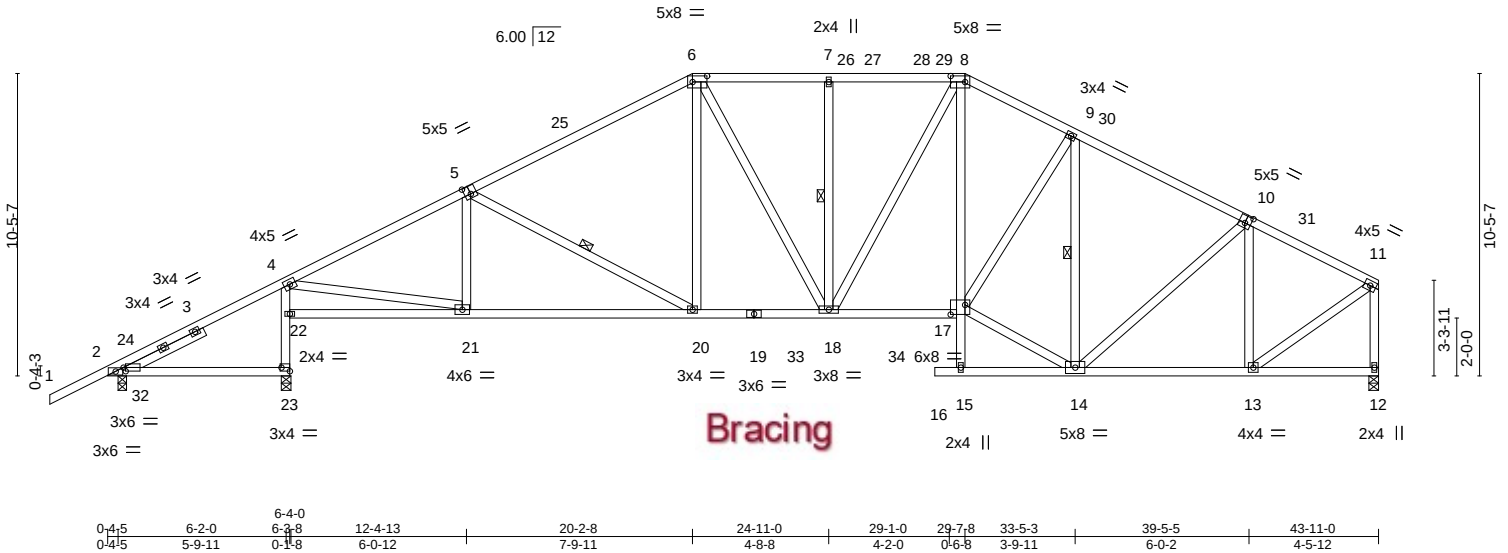


Plate Offsets (X,Y)--		[2:0-0-15,0-1-8], [5:0-2-8,0-3-4], [6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [10:0-2-8,0-3-0], [17:0-6-0,0-4-0], [23:Edge,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.56	Vert(LL)	-0.17	20-21	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL 1.25		BC	0.78	Vert(CT)	-0.33	20-21	>999	240			
BCLL	0.0 *	Rep Stress Incr YES		WB	0.47	Horz(CT)	0.11	12	n/a	n/a			
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	16	>999	240	Weight: 302 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
5-6: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 3-0-14

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 4-2-9 oc bracing: 22-23.
1 Row at midpt 5-20, 7-18, 9-14

REACTIONS.

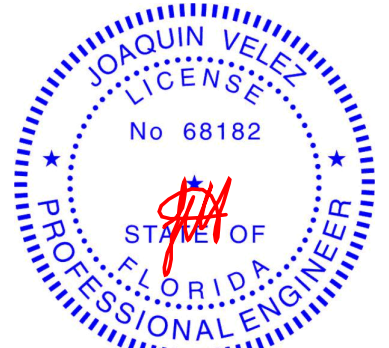
(size) 2=0-3-8, 23=0-4-0, 12=0-4-0
Max Horz 2=155(LC 11)
Max Uplift 2=-110(LC 12), 23=-137(LC 12), 12=-58(LC 12)
Max Grav 2=357(LC 23), 23=2007(LC 17), 12=1704(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-5=-2432/167, 5-6=-2152/206, 6-7=-1971/227, 7-8=-1971/227, 8-9=-2187/226,
9-10=-1842/180, 10-11=-1484/113, 11-12=-1642/128
BOT CHORD 22-23=-1939/173, 4-22=-1842/203, 20-21=-107/2195, 18-20=-37/1902, 17-18=-34/1917,
13-14=-68/1298
WEBS 4-21=-111/2187, 5-20=-343/79, 6-20=0/427, 6-18=-23/353, 7-18=-312/87, 8-18=-23/265,
8-17=-19/694, 9-17=0/647, 9-14=-939/88, 10-14=0/404, 10-13=-706/115,
11-13=-78/1556, 14-17=-64/1786

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 20-2-8, Zone2 20-2-8 to 24-5-7, Zone1 24-5-7 to 29-7-8, Zone2 29-7-8 to 33-10-7, Zone1 33-10-7 to 43-9-4 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=110, 23=137.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534209
6241955	A09	Hip	1	1	Job Reference (optional)	

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

Ocala, FL - 34472,

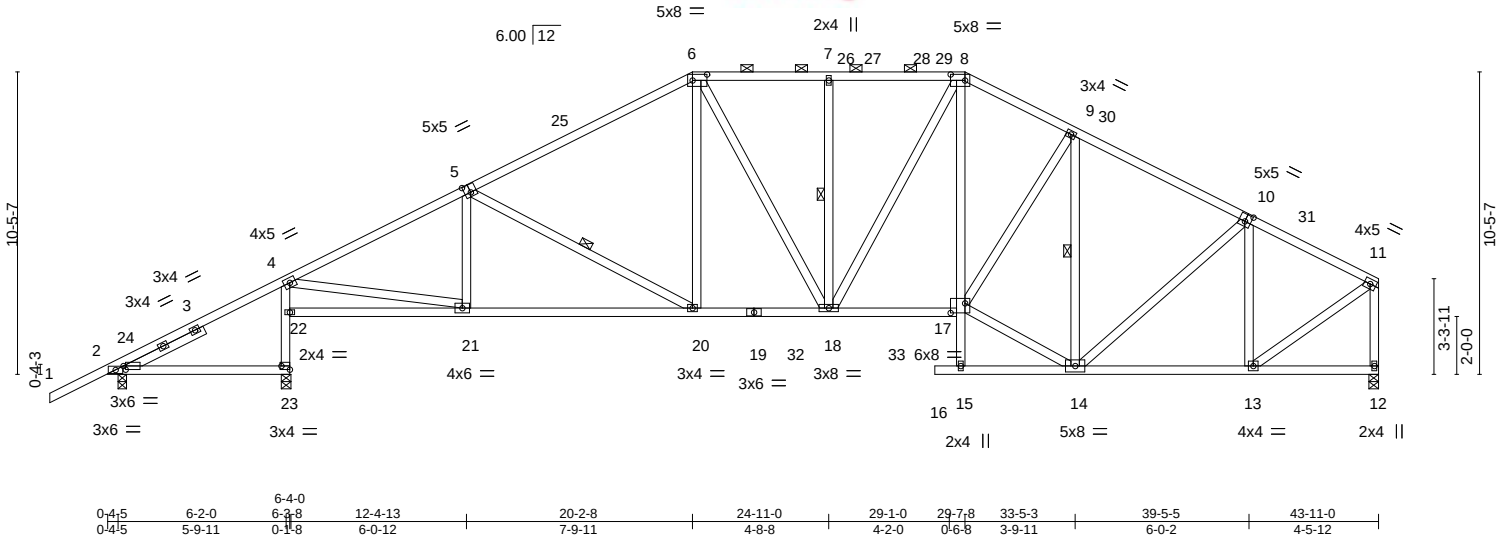
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ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-TC_Wfz1GZKW9hG7kTbAh8eCzFTTsGWzNXYYnfCyuSwq



Bracing

Scale = 1:79.6



Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534210
6241955	A10	Piggyback Base	1	1	Job Reference (optional)	

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

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ID:Ts3RJ0261_Xu2fYgSyBHAWzSLZ-xPXusJ2uKde0JQiw1lhwhrl7etoO?vNXmCEKCEyuswp

1-2-0-0	7-3-3	10-4-12	14-4-13	20-2-8	24-11-0	29-7-8	35-5-3	39-5-4	45-10-0	47-10-0
2-0-0	7-3-3	3-1-10	4-0-0	5-9-11	4-8-8	4-8-8	5-9-11	4-0-1	6-4-12	2-0-0

Scale = 1:85.3

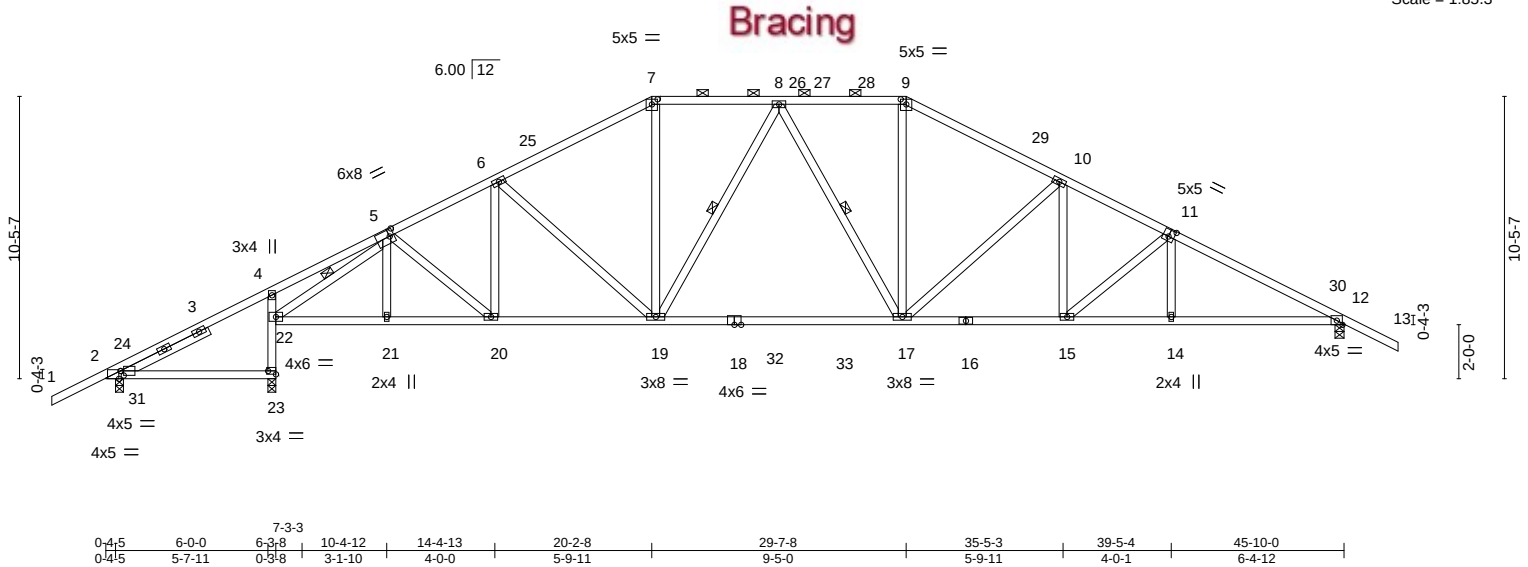


Plate Offsets (X,Y)--		[2:0-1-7,0-2-0], [2:0-0-12,Edge], [5:0-2-0,0-3-0], [7:0-2-8,0-2-4], [9:0-2-8,0-2-4], [11:0-2-8,0-3-0], [23:Edge,0-1-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.31 17-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.55 17-19	>857	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.12 12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.08 17	>999	240	Weight: 277 lb	FT = 20%

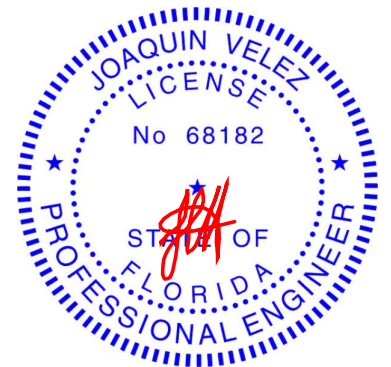
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-9-6 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (3-11-12 max.): 7-9.
18-22,16-18: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 2-23
SLIDER Left 2x4 SP No.2 3-7-5	4-1-2 oc bracing: 22-23.
	WEBS 1 Row at midpt 8-19, 8-17, 5-22

REACTIONS. (size) 2=0-3-8, 23=0-3-8, 12=0-4-0
Max Horz 2=167(LC 11)
Max Uplift 2=-140(LC 12), 23=-112(LC 12), 12=-132(LC 12)
Max Grav 2=353(LC 23), 23=2080(LC 17), 12=1880(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-2436/215, 6-7=-2252/228, 7-8=-1966/231, 8-9=-2093/239, 9-10=-2384/232,
10-11=-2898/241, 11-12=-3315/211
BOT CHORD 22-23=-2014/149, 4-22=-378/118, 21-22=-59/2061, 20-21=-59/2060, 19-20=-54/2246,
17-19=-26/2119, 15-17=-86/2524, 14-15=-116/2864, 12-14=-115/2866
WEBS 6-19=-310/89, 7-19=-4/736, 8-19=-384/60, 9-17=-3/769, 10-17=-662/105, 10-15=0/393,
11-15=-439/39, 5-22=-2552/90

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 20-2-8, Zone2 20-2-8 to 24-5-7, Zone1 24-5-7 to 29-7-8, Zone2 29-7-8 to 33-10-7, Zone1 33-10-7 to 47-10-0 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=140, 23=112, 12=132.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534211
6241955	A11	Piggyback Base	4	1		
Job Reference (optional)						

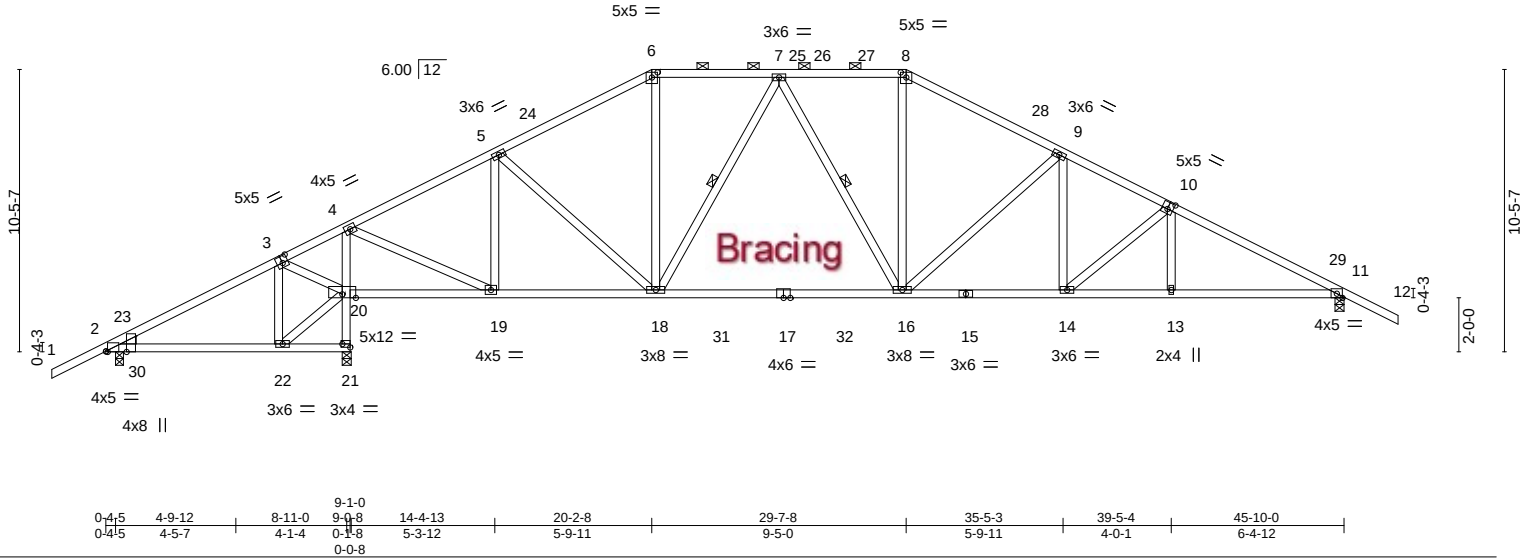
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:50 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-xPXusJ2uKde0JQiw1Ihwhri8Wtmn?vLXmCEKCeyuswp

1-2-0-0	6-4-12	9-1-0	14-4-13	20-2-8	24-11-0	29-7-8	35-5-3	39-5-4	45-10-0	47-10-0
2-0-0	6-4-12	2-8-4	5-3-12	5-9-11	4-8-8	4-8-8	5-9-11	4-0-1	6-4-12	2-0-0

Scale = 1:85.3



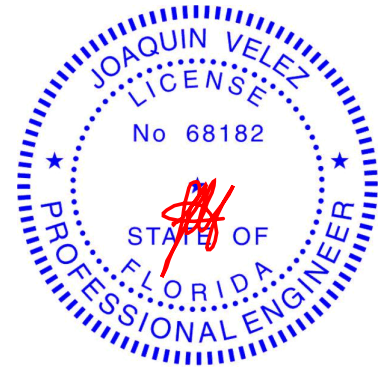
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.32	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.99	Vert(CT)	-0.56	16-18	>791		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.09	11	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S	Wind(LL)	0.07	14-16	>999	Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-15 oc purlins, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-4-7 max.): 6-8.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEDGE	WEBS 1 Row at midpt 7-18, 7-16
Left: 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-8, 21=0-4-0, 11=0-4-0
	Max Horz 2=167(LC 11)
	Max Uplift 2=-155(LC 12), 21=-150(LC 12), 11=-126(LC 12)
	Max Grav 2=327(LC 23), 21=2281(LC 17), 11=1716(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=0/376, 3-4=-45/938, 4-5=-1351/133, 5-6=-1674/190, 6-7=-1442/196, 7-8=-1767/216, 8-9=-2023/207, 9-10=-2539/216, 10-11=-2961/186
BOT CHORD	2-22=-255/0, 20-21=-2290/241, 4-20=-2027/165, 19-20=-801/116, 18-19=0/1238, 16-18=0/1687, 14-16=-63/2203, 13-14=-94/2546, 11-13=-93/2552
WEBS	3-22=-43/378, 20-22=-306/0, 3-20=-695/187, 4-19=-111/2120, 5-19=-701/109, 5-18=0/438, 6-18=0/487, 7-18=-520/74, 8-16=0/605, 9-16=-665/106, 9-14=0/398, 10-14=-447/40

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 20-2-8, Zone2 20-2-8 to 24-5-7, Zone1 24-5-7 to 29-7-8, Zone2 29-7-8 to 33-10-7, Zone1 33-10-7 to 47-10-0 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=155, 21=150, 11=126.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

July 25,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534212
6241955	A11A	Piggyback Base	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:51 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-Qb5G3e3W5xmtwaH6b0D9D3lluH77kMfg_s_uk5yuswo

1-2-0-0	6-4-12	9-1-0	14-4-13	20-2-8	24-11-0	29-7-8	35-5-3	39-5-4	45-10-0	47-10-0
2-0-0	6-4-12	2-8-4	5-3-12	5-9-11	4-8-8	4-8-8	5-9-11	4-0-1	6-4-12	2-0-0

Scale = 1:85.3

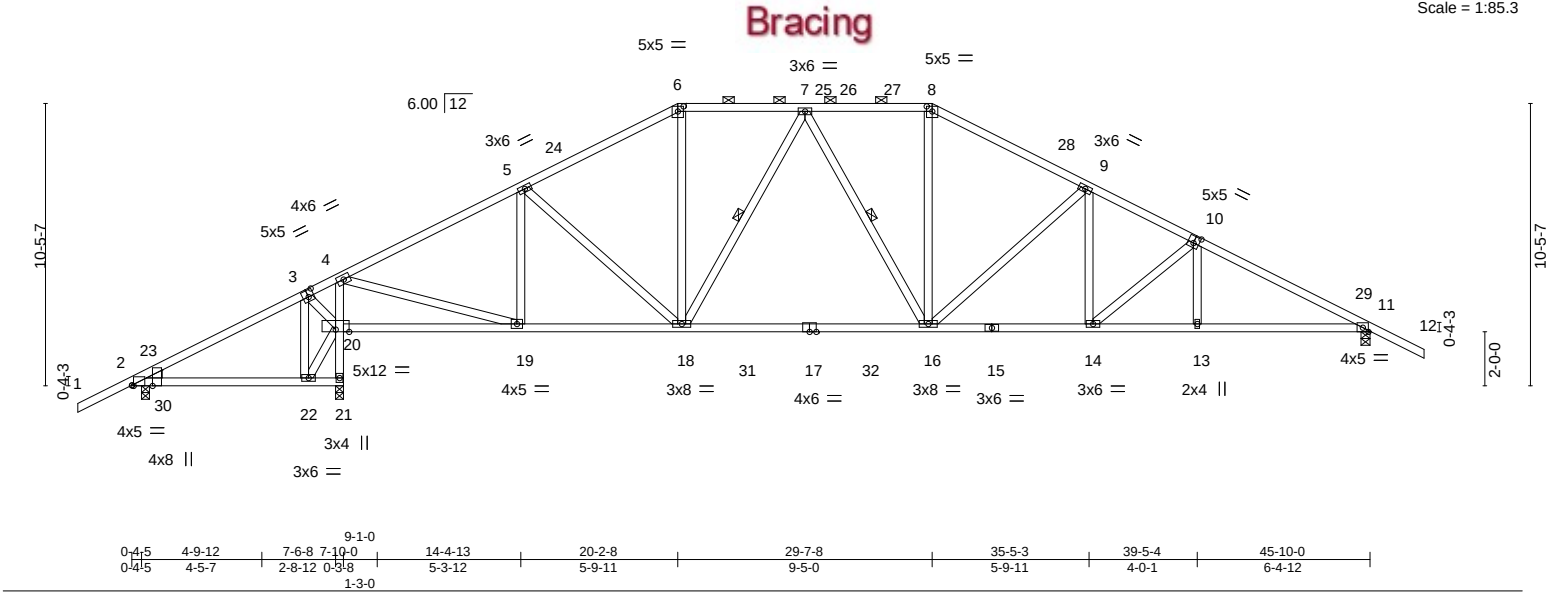
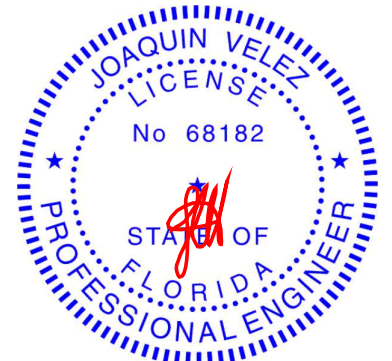


Plate Offsets (X,Y)--	[2:0-0-4,Edge], [2:0-0-12,Edge], [3:0-2-8,0-3-0], [6:0-2-8,0-2-4], [8:0-2-8,0-2-4], [10:0-2-8,0-3-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.32 16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.56 16-18	>816	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.07 16	>999	240	Weight: 275 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins, except
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-2-3 max.): 6-8.
15-17: 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 7-18, 7-16
WEDGE	
Left: 2x4 SP No.2	

REACTIONS.	(size) 2=0-3-8, 21=0-3-8, 11=0-4-0
	Max Horz 2=167(LC 11)
	Max Uplift 2=146(LC 12), 21=-135(LC 12), 11=-128(LC 12)
	Max Grav 2=326(LC 23), 21=2208(LC 17), 11=1789(LC 18)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-33/341, 3-4=-14/686, 4-5=-1879/162, 5-6=-1931/208, 6-7=-1672/212, 7-8=-1914/225, 8-9=-2186/217, 9-10=-2698/227, 10-11=-3119/197
BOT CHORD	20-21=-2262/248, 4-20=-1878/150, 19-20=-539/78, 18-19=-15/1700, 16-18=-9/1879, 14-16=-73/2345, 13-14=-104/2686, 11-13=-102/2691
WEBS	3-22=-64/438, 20-22=-307/0, 3-20=-637/169, 4-19=-96/2227, 5-19=-425/101, 6-18=-0/602, 7-18=-461/67, 8-16=-0/679, 9-16=-660/107, 9-14=-0/393, 10-14=-444/40

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 20-2-8, Zone2 20-2-8 to 24-5-7, Zone1 24-5-7 to 29-7-8, Zone2 29-7-8 to 33-10-7, Zone1 33-10-7 to 47-10-0 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 21=135, 11=128.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

July 25,2024

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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534213
6241955	A12	Hip	1	1		

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

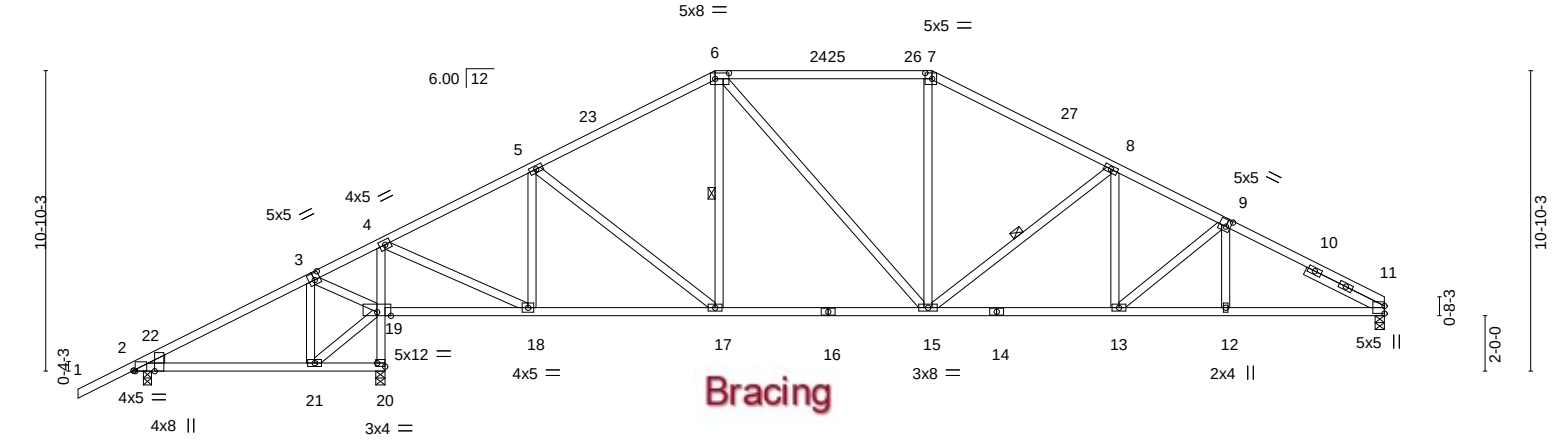
Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:52 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-unfeH_48sFukYkrJ8jkOmGqTyhVJStzpDWjRGXyuswn

-2-0-0	6-4-12	9-1-0	14-4-11	21-0-0	28-10-0	35-5-4	39-5-4	45-2-0
2-0-0	6-4-12	2-8-4	5-3-11	6-7-5	7-10-0	6-7-4	4-0-0	5-8-12

Scale = 1:83.2



0-4-5	4-9-12	8-11-0	9-1-0	14-4-11	21-0-0	28-10-0	35-5-4	39-5-4	45-2-0	
0-4-5	4-5-7	4-1-4	0-2-0	5-3-11	6-7-5	7-10-0	6-7-4	4-0-0	5-8-12	
Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:0-0-12,Edge], [3:0-2-8,0-3-0], [6:0-6-0,0-2-8], [7:0-3-0,0-2-8], [9:0-2-0,0-3-0], [20:Edge,0-1-8]										
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.53		Vert(LL) -0.18 15-17 >999 360			MT20 244/190	
TCDL	10.0	Lumber DOL 1.25		BC 0.79		Vert(CT) -0.31 15-17 >999 240				
BCLL	0.0 *	Rep Stress Incr YES		WB 0.45		Horz(CT) 0.08 11 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL) 0.06 13-15 >999 240			Weight: 269 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 3-10-11 oc bracing.
WEBS 1 Row at midpt 6-17, 8-15

REACTIONS.

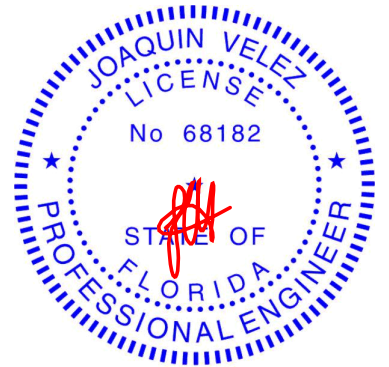
(size) 2=0-3-8, 20=0-4-0, 11=0-4-0
Max Horz 2=170(LC 11)
Max Uplift 2=-76(LC 12), 20=-79(LC 12), 11=-62(LC 12)
Max Grav 2=350(LC 23), 20=2283(LC 17), 11=1572(LC 18)

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

TOP CHORD 2-3=-63/262, 3-4=-17/833, 4-5=-1368/145, 5-6=-1656/203, 6-7=-1646/227,
7-8=-1899/215, 8-9=-2424/215, 9-11=-2740/195
BOT CHORD 19-20=-2292/138, 4-19=-1959/144, 18-19=-700/58, 17-18=-30/1249, 15-17=0/1461,
13-15=-85/2133, 12-13=-112/2316, 11-12=-113/2313
WEBS 3-21=0/331, 3-19=-651/68, 4-18=-96/2048, 5-18=-641/117, 5-17=0/374, 6-15=-26/394,
7-15=0/448, 8-15=-691/102, 8-13=0/323

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 21-0-0, Zone2 21-0-0 to 25-2-15, Zone1 25-2-15 to 28-10-0, Zone2 28-10-0 to 33-0-15, Zone1 33-0-15 to 45-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 11.



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

July 25,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534214
6241955	A13	Hip	1	1	Job Reference (optional)	

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

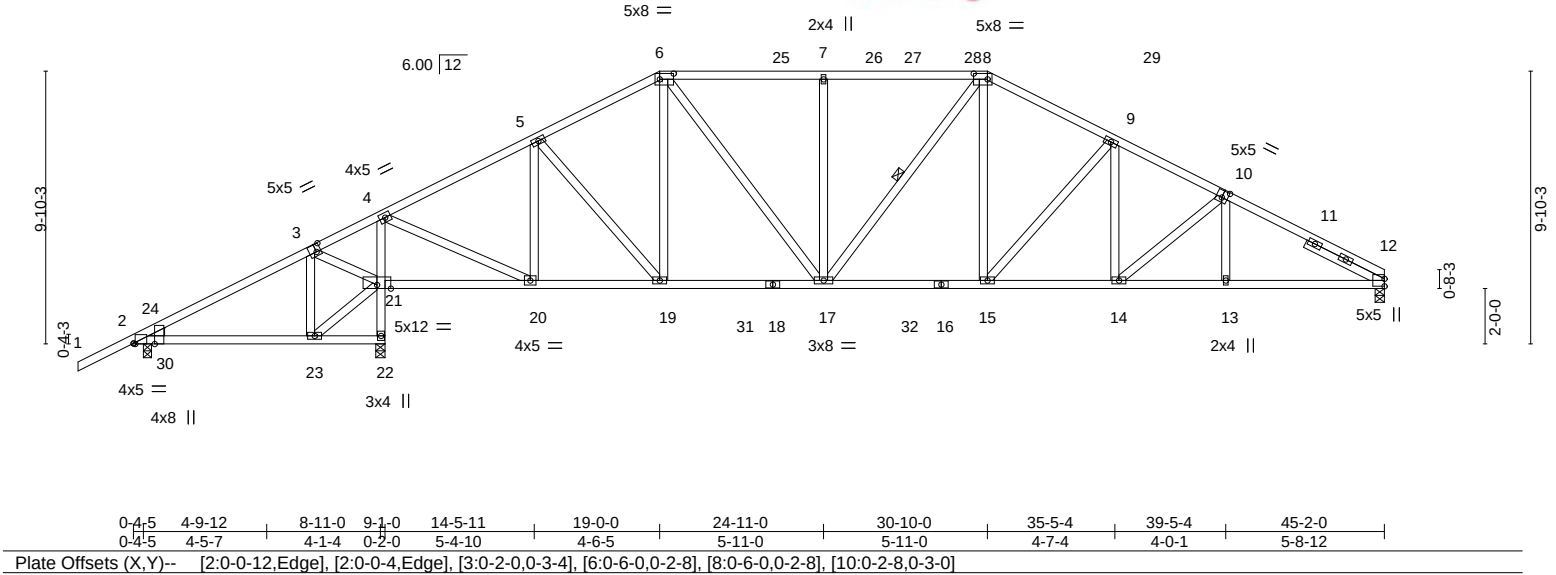
8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:53 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-M_D0UK4mdY0bAtQViQFdJUNeF4tbBKtzSAT_ozyswmm

-2-0-0	6-4-12	9-1-0	14-5-11	19-0-0	24-11-0	30-10-0	35-5-4	39-5-4	45-2-0
2-0-0	6-4-12	2-8-4	5-4-10	4-6-5	5-11-0	5-11-0	4-7-4	4-0-1	5-8-12

Bracing

Scale = 1:83.2



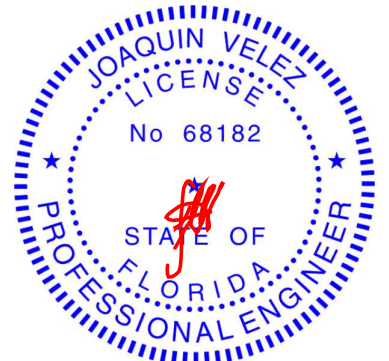
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.14 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.26 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.08 12	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.06 15	>999	240	Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-10-12 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 8-17
WEDGE	
Left: 2x4 SP No.2	
SLIDER Right 2x4 SP No.2 3-1-12	

REACTIONS.	(size) 2=0-3-8, 22=0-4-0, 12=0-4-0
Max Horz	2=153(LC 11)
Max Uplift	2=144(LC 12), 22=164(LC 12), 12=61(LC 12)
Max Grav	2=336(LC 23), 22=2242(LC 17), 12=1585(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-27/313, 3-4=-54/850, 4-5=-1369/130, 5-6=-1628/190, 6-7=-1827/219, 7-8=-1827/219, 8-9=-2067/215, 9-10=-2432/212, 10-12=-2769/190
BOT CHORD	21-22=-2249/256, 4-21=-1986/169, 20-21=-708/89, 19-20=-15/1233, 17-19=0/1450, 15-17=-19/1775, 14-15=-77/2132, 13-14=-110/2336, 12-13=-109/2340
WEBS	3-23=-32/336, 3-21=-654/173, 4-20=-112/2037, 5-20=-660/111, 5-19=0/420, 6-17=-52/709, 7-17=-405/117, 8-15=-0/638, 9-15=-557/87, 9-14=0/304, 10-14=-265/53

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 30-10-0, Zone2 30-10-0 to 35-0-15, Zone1 35-0-15 to 45-2-0 zone; cantilever left and right exposed ; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 3x6 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=144, 22=164.



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

July 25,2024

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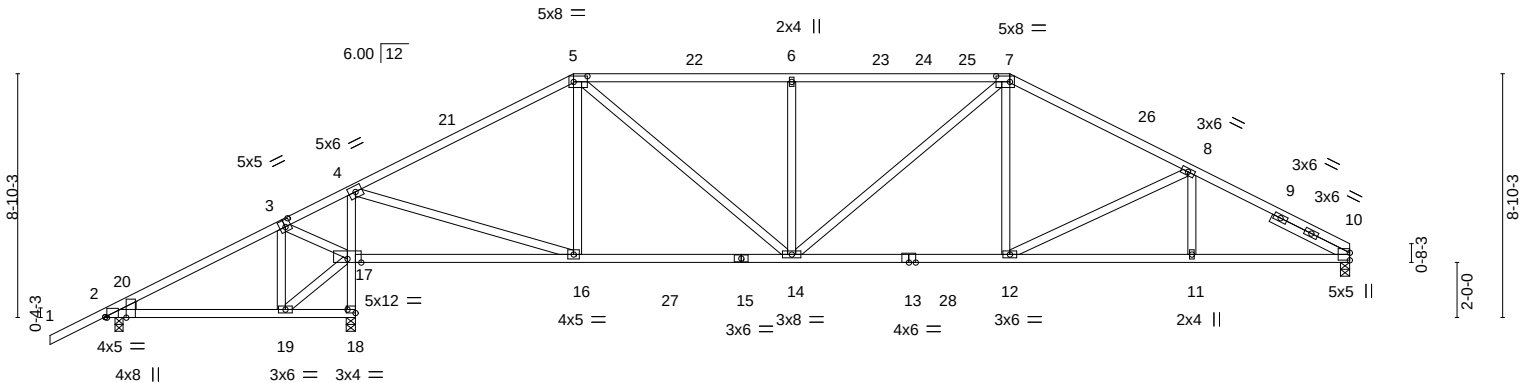
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534215
6241955	A14	Hip	1	1		

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:54 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-qAnPig5ONs8Sn1?hG8msrhvkoUAtwnM6hpCYLQyuswl

-2-0-0	6-4-12	9-1-0	17-0-0	24-11-0	32-10-0	39-5-4	45-2-0
2-0-0	6-4-12	2-8-4	7-11-0	7-11-0	7-11-0	6-7-5	5-8-12

Scale = 1:83.6



0-4-5	4-9-12	8-11-0	9-1-0	17-0-0	24-11-0	32-10-0	38-10-4	45-2-0
0-4-5	4-5-7	4-1-4	0-2-0	7-11-0	7-11-0	7-11-0	6-0-4	6-3-12

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [2:0-0-12,Edge], [3:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-6-0,0-2-8], [18:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.20 12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.38 12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.07 14	>999	240	Weight: 252 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2
SLIDER Right 2x4 SP No.2 3-1-12

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 3-11-0 oc bracing.

REACTIONS.

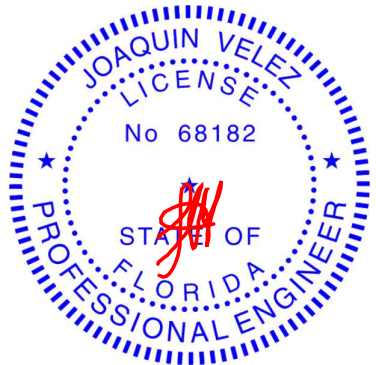
(size) 10=0-4-0, 2=0-3-8, 18=0-4-0
Max Horz 2=137(LC 11)
Max Uplift 10=-61(LC 12), 2=-70(LC 12), 18=-86(LC 12)
Max Grav 10=1597(LC 18), 2=360(LC 23), 18=2258(LC 17)

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

TOP CHORD 3-4=-31/675, 4-5=-1705/157, 5-6=-2163/225, 6-7=-2163/225, 7-8=-2311/202, 8-10=-2830/196
BOT CHORD 17-18=-2266/145, 4-17=-1906/197, 16-17=-493/46, 14-16=-1/1473, 12-14=-39/1985, 11-12=-123/2404, 10-11=-123/2404
WEBS 3-19=0/281, 3-17=-536/51, 4-16=-48/1968, 5-16=-337/116, 5-14=-71/969, 6-14=-538/148, 7-14=-20/357, 7-12=0/515, 8-12=-477/92

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 32-10-0, Zone2 32-10-0 to 37-0-15, Zone1 37-0-15 to 45-2-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 2, 18.



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

July 25,2024

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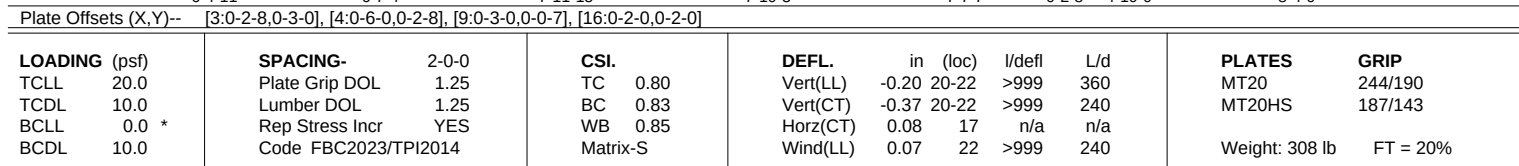
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ID:Ts3RJD261_Xu2fYgSyBHAWzZSLZ-IMLn0618AGJPBauqrH5OvSw1uWPf8TGvTytsysuwxk

2-0-0	6-4-11	13-0-0	20-11-15	28-10-1	36-10-0	37-7-8	41-6-0	45-6-4	49-10-0
2-0-0	6-4-11	6-7-4	7-11-15	7-10-3	7-11-15	0-9-8	3-10-8	4-0-4	4-3-12

Scale = 1:90.4



REACTIONS. (size) 14=0-4-0, 2=0-4-0, 17=0-5-0
Max Horz 2=182(LC 12)
Max Uplift 14=-41(LC 9), 2=-105(LC 12), 17=-133(LC 12)
Max Grav 14=197(LC 24), 2=1616(LC 17), 17=2766(LC 17)

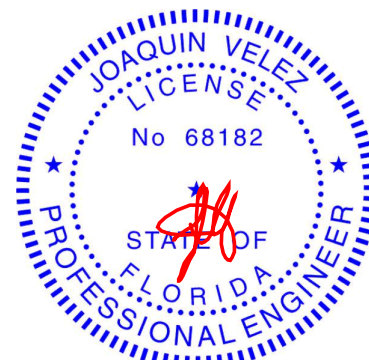
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2770/162, 3-4=-2123/160, 4-5=-1816/150, 5-7=-1816/150, 7-8=-90/1159,
8-9=-97/1165, 9-10=-139/1314, 10-11=-63/390, 11-12=-63/389

BOT CHORD 2-23=-270/2428, 22-23=-272/2423, 20-22=-174/1848, 18-20=-51/916, 16-17=-2650/280,
8-16=-831/211, 15-16=-1087/111

WEBS 3-23=0/269, 3-22=-655/109, 4-22=0/591, 5-20=-515/152, 7-20=-115/1169,
16-18=-69/925, 7-16=-2416/176, 10-16=-312/14, 10-15=-73/1045, 12-15=-475/106

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 36-10-0, Zone3 36-10-0 to 37-7-8, Zone1 37-7-8 to 49-8-4 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
 - 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) 14 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) 14 except (jt=lb) 2=105. 17=133.



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Date:

July 25, 2024



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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534218
6241955	A17	Half Hip	1	1	Job Reference (optional)	

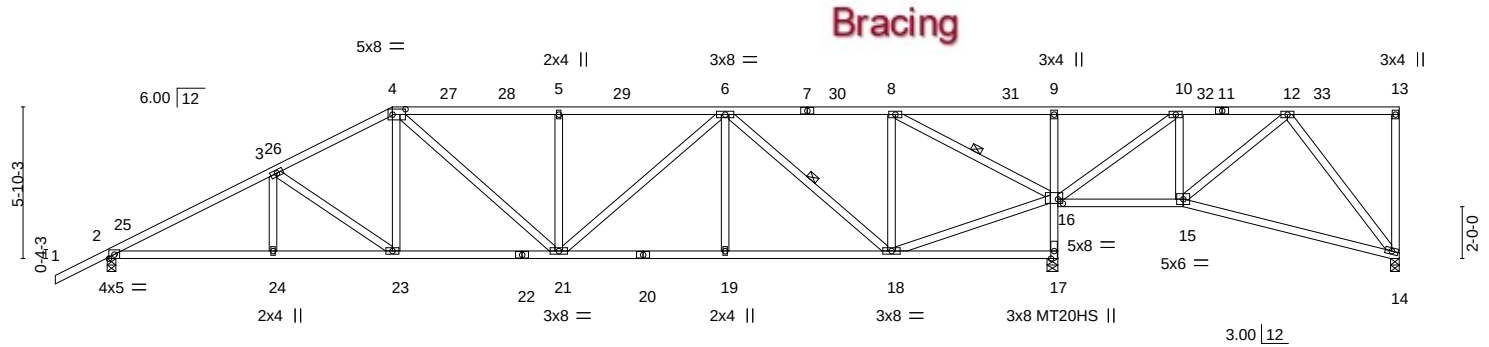
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:56 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-mZv97M7fvTPA1L94NZoKw6?7DIubOeGP87hfPlyuswj

-2-0-0	6-4-12	11-0-0	17-5-0	23-10-0	30-3-0	36-8-0	41-6-0	45-6-4	49-10-0
2-0-0	6-4-12	4-7-4	6-5-0	6-5-0	6-5-0	6-5-0	4-10-0	4-0-4	4-3-12

Scale = 1:88.9



	6-4-12	11-0-0	17-5-0	23-10-0	30-3-0	36-5-8	36-8-0	41-6-0	49-10-0
	6-4-12	4-7-4	6-5-0	6-5-0	6-5-0	6-2-8	0-2-8	4-10-0	8-4-0

Plate Offsets (X,Y)-- [4:0-6-0,0-2-8], [16:0-2-4,0-2-0]

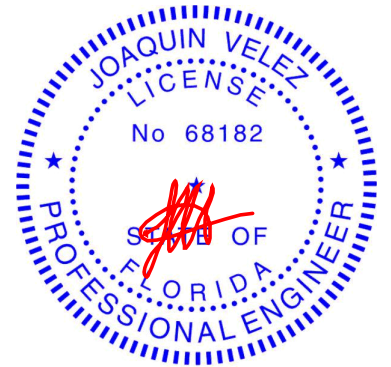
LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.17 14-15	>931	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.64	Vert(CT)	-0.34 14-15	>464	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.09 17	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.08 21	>999	240	Weight: 300 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-8-8 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-18, 8-16

REACTIONS. (size) 14=0-4-0, 2=0-4-0, 17=0-5-0
Max Horz 2=168(LC 12)
Max Uplift 14=-45(LC 9), 2=-109(LC 12), 17=-124(LC 12)
Max Grav 14=172(LC 1), 2=1459(LC 1), 17=2461(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2448/142, 3-4=-2016/154, 4-5=-2013/156, 5-6=-2013/156, 6-8=-707/38,
8-9=-96/1247, 9-10=-100/1257, 10-12=-46/323
BOT CHORD 2-24=-224/2096, 23-24=-224/2096, 21-23=-160/1750, 19-21=-112/1651, 18-19=-112/1651,
16-17=-2405/199, 9-16=-352/94, 15-16=-341/45
WEBS 3-23=-431/77, 4-23=0/398, 4-21=-6/348, 5-21=-411/121, 6-21=-58/479, 6-19=0/250,
6-18=-1248/100, 8-18=0/725, 16-18=-48/749, 8-16=-2246/151, 10-16=-1137/68,
10-15=0/436, 12-15=-434/84

- 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=6ft; 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 49-8-4 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) All plates are 3x6 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) 14 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) 14 except (jt=lb) 2=109, 17=124.



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

July 25,2024

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

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534219
6241955	A18	Half Hip	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:56 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-mZv97M7fvTPA1L94NZoKw6?6FlujOeeP87hfPlyuswj

-2-0-0	6-4-12	9-0-0	15-11-0	22-10-0	29-9-0	36-8-0	41-6-0	45-6-4	49-10-0
2-0-0	6-4-12	2-7-4	6-11-0	6-11-0	6-11-0	6-11-0	4-10-0	4-0-4	4-3-12

Scale = 1:88.9

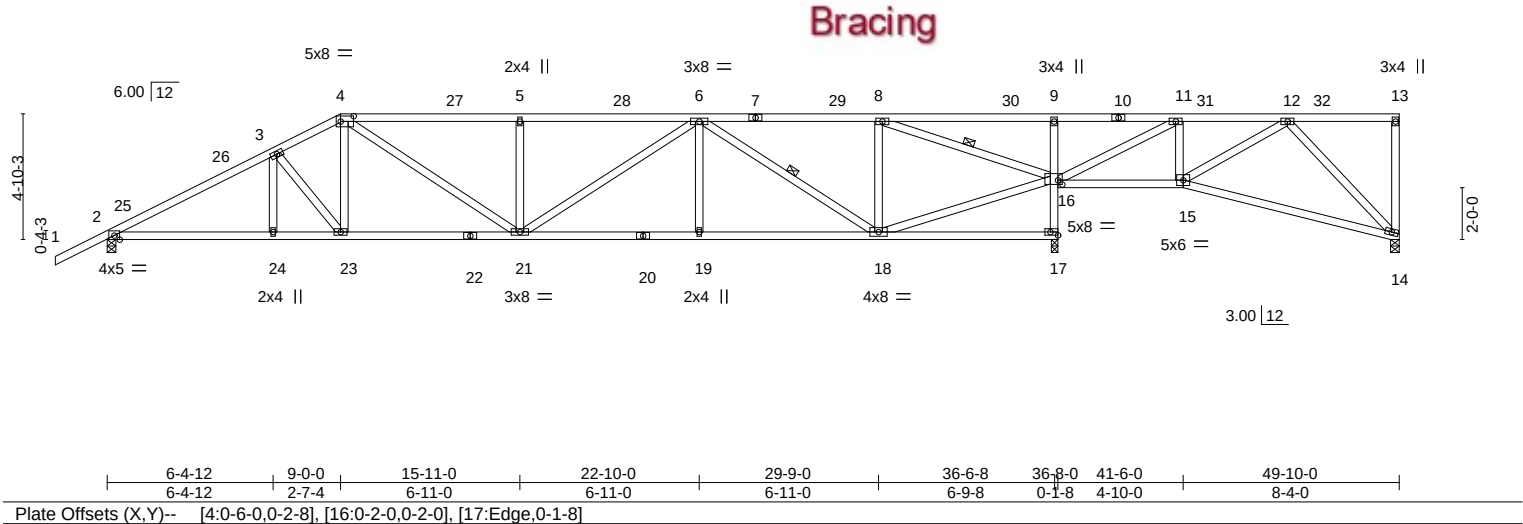


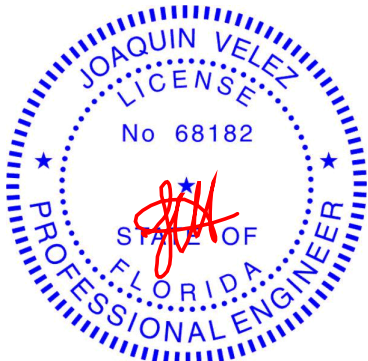
Plate Offsets (X, Y)--		[4:0-6-0,0-2-8], [16:0-2-0,0-2-0], [17:Edge,0-1-8]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.18 19-21	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.38 19-21	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.10 17	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.11 19-21	>999	240	Weight: 284 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 3-8-14 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 6-18, 8-16

REACTIONS.	(size) 14=0-4-0, 2=0-4-0, 17=0-3-0
	Max Horz 2=144(LC 12)
	Max Uplift 14=-43(LC 9), 2=-114(LC 12), 17=-114(LC 12)
	Max Grav 14=238(LC 1), 2=1484(LC 1), 17=2370(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2492/156, 3-4=-2207/174, 4-5=-2545/184, 5-6=-2545/184, 6-8=-1143/63, 8-9=-93/1368, 9-11=-103/1396
BOT CHORD	2-24=-210/2134, 23-24=-210/2134, 21-23=-165/1945, 19-21=-145/2256, 18-19=-145/2256, 16-17=-2309/187, 9-16=-375/99, 15-16=-261/41
WEBS	3-23=-312/69, 4-23=0/366, 4-21=-33/719, 5-21=-444/130, 6-21=-46/346, 6-19=0/269, 6-18=-1333/100, 8-18=0/587, 16-18=-77/1204, 8-16=-2684/165, 11-16=-1284/70, 11-15=0/387, 12-15=-380/84

- NOTES-**
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; 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 49-8-4 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=114, 17=114.

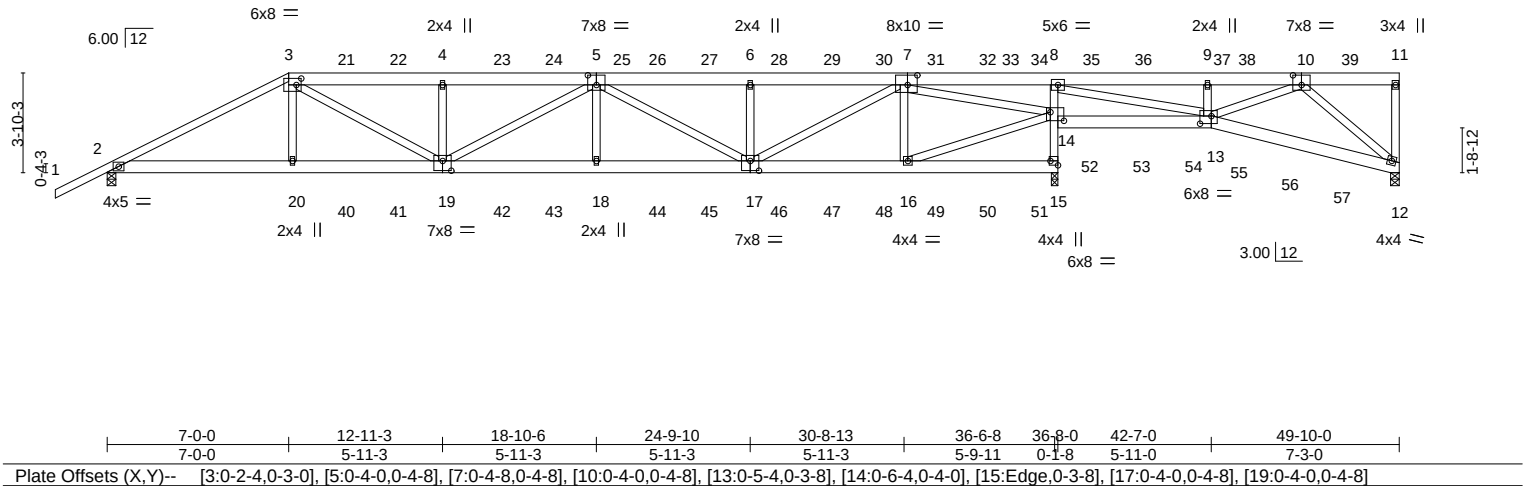


Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

July 25,2024

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534220
6241955	A19	Half Hip Girder	1	2	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:26:59 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-B7aHIO9XCOnluouf3hM1YkdfhVvEbZ7rq5wJ0dyuswg
-2-0-0 | 7-0-0 | 12-11-3 | 18-10-6 | 24-9-10 | 30-8-13 | 36-8-0 | 42-7-0 | 46-0-12 | 49-10-0 |
2-0-0 | 7-0-0 | 5-11-3 | 5-11-3 | 5-11-3 | 5-11-3 | 5-11-3 | 5-11-0 | 3-5-12 | 3-9-4 |
Scale = 1:88.9



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.63	Vert(LL) -0.22 18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.71	Vert(CT) -0.45 18-19 >972 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.09 15 n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Wind(LL) 0.15 18 >999 240	Weight: 680 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-1 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2 *Except* 8-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-7-10 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 12=0-4-0, 2=0-4-0, 15=0-3-0
Max Horz 2=119(LC 27)
Max Uplift 12=-34(LC 5), 2=-181(LC 8), 15=-318(LC 8)
Max Grav 12=901(LC 20), 2=2758(LC 1), 15=4624(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5363/226, 3-4=-7071/436, 4-5=-7069/435, 5-6=-6462/441, 6-7=-6462/441, 7-8=-144/2472, 8-9=-749/25, 9-10=-714/11, 11-12=-358/54
BOT CHORD 2-20=-227/4708, 19-20=-219/4728, 18-19=-500/7605, 17-18=-500/7605, 16-17=-217/3294, 14-15=-4496/383, 8-14=-1847/287, 13-14=-2442/167, 12-13=-77/640
WEBS 3-20=0/681, 3-19=-250/2780, 4-19=-809/247, 5-19=-651/74, 5-18=0/517, 5-17=-1316/67, 6-17=-838/264, 7-17=-257/3628, 7-16=-909/252, 14-16=-246/3611, 7-14=-5973/382, 8-13=-155/3281, 9-13=-398/162, 10-12=-757/91

- NOTES-
- 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, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=181, 15=318.

Continued on page 2

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Date: July 25,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534220
6241955	A19	Half Hip Girder	1	2	Job Reference (optional)	

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 86 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, 122 lb down and 83 lb up at 13-0-12, 122 lb down and 83 lb up at 15-0-12, 122 lb down and 83 lb up at 17-0-12, 122 lb down and 83 lb up at 19-0-12, 122 lb down and 83 lb up at 21-0-12, 122 lb down and 83 lb up at 23-0-12, 122 lb down and 83 lb up at 25-0-12, 122 lb down and 83 lb up at 27-9-9, 122 lb down and 83 lb up at 29-9-9, 122 lb down and 83 lb up at 31-9-9, 122 lb down and 83 lb up at 33-9-9, 122 lb down and 83 lb up at 35-9-9, 122 lb down and 83 lb up at 37-9-9, 122 lb down and 83 lb up at 39-9-9, 122 lb down and 83 lb up at 41-9-9, 182 lb down and 48 lb up at 43-9-9, 49 lb down and 35 lb up at 45-9-4, and 142 lb down and 71 lb up at 47-9-4, and 220 lb down and 30 lb up at 49-8-4 on top chord, and 310 lb down at 7-0-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 95 lb down at 13-0-12, 95 lb down at 15-0-12, 95 lb down at 17-0-12, 95 lb down at 19-0-12, 95 lb down at 21-0-12, 95 lb down at 23-0-12, 95 lb down at 25-0-12, 95 lb down at 25-9-0, 95 lb down at 27-9-9, 95 lb down at 29-9-9, 95 lb down at 31-9-9, 95 lb down at 33-9-9, 95 lb down at 35-9-9, 95 lb down at 37-9-9, 95 lb down at 39-9-9, 95 lb down at 41-9-9, at 43-9-9, and 165 lb down at 45-9-4, and 56 lb down at 47-9-4 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: 1-3=-60, 3-11=-60, 2-15=-20, 13-14=-20, 12-13=-20

Concentrated Loads (lb)

Vert: 3=-122(B) 11=-220 20=-262(B) 19=-48(B) 4=-122(B) 5=-122(B) 18=-48(B) 17=-48(B) 6=-122(B) 10=-5(B) 21=-122(B) 22=-122(B) 23=-122(B) 24=-122(B) 26=-122(B) 27=-122(B) 28=-122(B) 29=-122(B) 30=-122(B) 31=-122(B) 32=-122(B) 34=-122(B) 35=-122(B) 36=-122(B) 37=-122(B) 38=-182(B) 39=-142(B) 40=-48(B) 41=-48(B) 42=-48(B) 43=-48(B) 44=-48(B) 45=-48(B) 46=-48(B) 47=-48(B) 48=-48(B) 49=-48(B) 50=-48(B) 51=-48(B) 52=-48(B) 53=-48(B) 54=-48(B) 56=-165(B) 57=-28(B)

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

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534221
6241955	B01	Common	9	1		

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ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-fK8gyjA9zivbVyTrcPtG5y9ujvJFKa3?3lfsY3yuswf

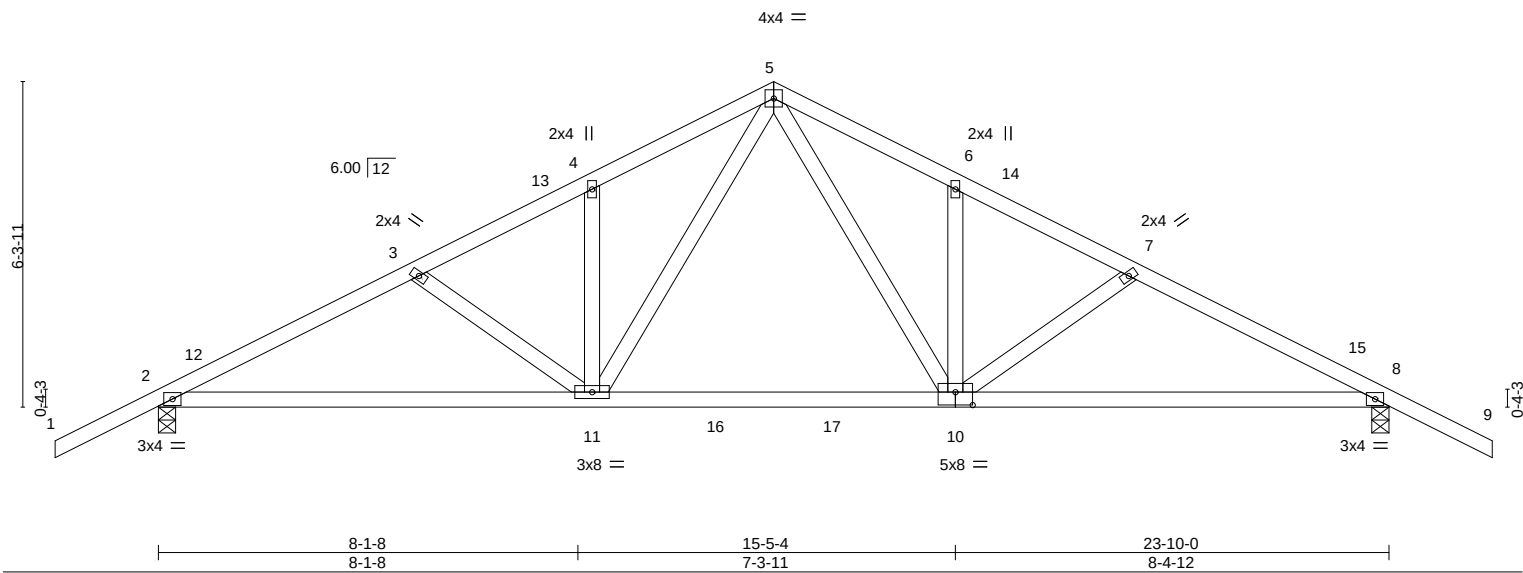
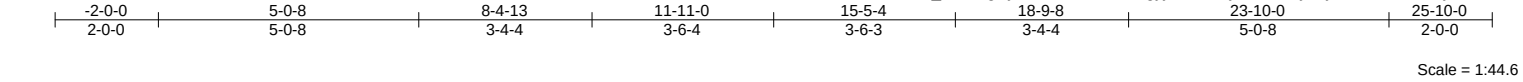


Plate Offsets (X,Y)--		[10:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.11 2-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.29 10-11	>981	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.05 8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.04 10-11	>999	240	Weight: 126 lb	FT = 20%

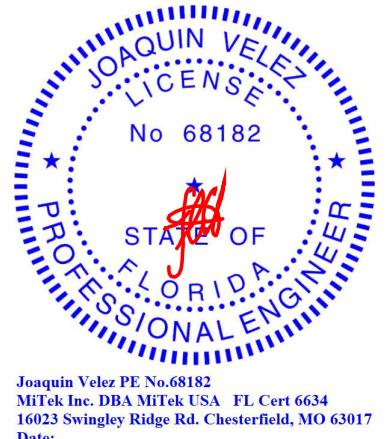
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins.
BOT CHORD 2x4 SP M 31 or 2x4 SP SS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size) 2=0-4-0, 8=0-4-0
	Max Horz 2=-114(LC 10)
	Max Grav 2=1298(LC 17), 8=1298(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2069/0, 3-4=-1864/0, 4-5=-1870/0, 5-6=-1870/0, 6-7=-1864/0, 7-8=-2070/0
BOT CHORD	2-11=0/1859, 10-11=0/1242, 8-10=0/1774
WEBS	5-10=0/885, 5-11=0/885

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-11-0, Zone2 11-11-0 to 16-1-15, Zone1 16-1-15 to 25-10-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 2-11=-20, 10-11=-60, 8-10=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-50, 5-9=-50, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-20, 2-11=-40, 10-11=-80, 8-10=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Continued on page 2

July 25,2024

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534221
6241955	B01	Common	9	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:00 2024 Page 2
ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-fK8gyjA9zivbVyTrcPtG5y9ujvJFKa3?3lfsY3yuswf

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=47, 2-12=32, 5-12=17, 5-14=26, 8-14=17, 8-9=12, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-55, 2-12=-40, 5-12=-25, 5-14=35, 8-14=25, 8-9=21
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-13=17, 5-13=26, 5-15=17, 8-15=32, 8-9=47, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-21, 2-13=-25, 5-13=-35, 5-15=25, 8-15=40, 8-9=55
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-32, 5-8=-32, 8-9=-28, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-12, 2-5=12, 5-8=-12, 8-9=-8
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-5=-32, 5-8=-32, 8-9=-8, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=8, 2-5=12, 5-8=-12, 8-9=12
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-8=9, 8-9=4, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-5=-11, 5-8=17, 8-9=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=9, 5-8=3, 8-9=15, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-13, 2-5=-17, 5-8=11, 8-9=24
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-5=-28, 5-8=-12, 8-9=-7, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=4, 2-5=8, 5-8=8, 8-9=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-8=-28, 8-9=-24, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-5=-8, 5-8=-8, 8-9=-4
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=15, 5-8=15, 8-9=28, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-37, 2-5=-24, 5-8=24, 8-9=37
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-8=3, 8-9=15, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-5=-11, 5-8=11, 8-9=24
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-8=-21, 8-9=-16, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-5=1, 5-8=-1, 8-9=4
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-8=-21, 8-9=-16, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-5=1, 5-8=-1, 8-9=4
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-20, 2-11=-40, 11-16=-80, 16-17=-100, 10-17=-80, 8-10=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-5=-56, 5-8=-44, 8-9=-40, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
Horz: 1-2=3, 2-5=6, 5-8=6, 8-9=10
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-8=-56, 8-9=-53, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
Horz: 1-2=-10, 2-5=-6, 5-8=-6, 8-9=-3
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-8=-51, 8-9=-47, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
Horz: 1-2=-3, 2-5=1, 5-8=-1, 8-9=3
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-8=-51, 8-9=-47, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
Horz: 1-2=-3, 2-5=1, 5-8=-1, 8-9=3
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-5=-25, 5-9=-25, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-16, 2-5=16, 5-9=-16
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534221
6241955	B01	Common	9	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:00 2024 Page 3
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-fK8gyjA9zivbVyTrcPtG5y9ujvJFKa3?3lfsY3yuswf

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-5=8, 5-9=8, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-5=-16, 5-9=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-20, 2-11=-20, 10-11=-60, 8-10=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-60, 2-11=-20, 10-11=-60, 8-10=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-50, 5-9=-20, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-9=-50, 2-11=-35, 11-16=-75, 16-17=-90, 10-17=-75, 8-10=-35

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

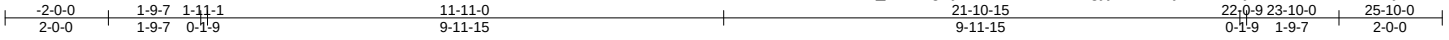
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534222
6241955	B01X	Common Supported Gable	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:00 2024 Page 1
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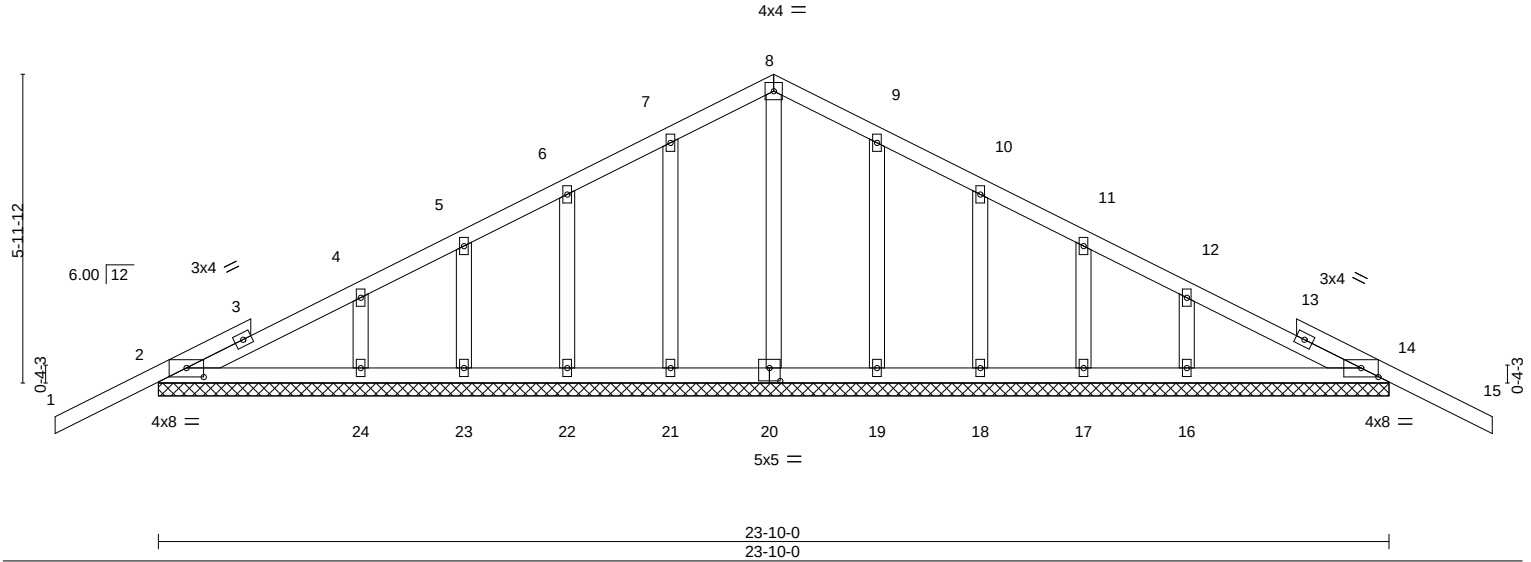


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [14:0-4-0,0-2-1], [20:0-2-8,0-3-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26
TCDL 10.0	Lumber DOL	1.25	BC 0.10
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-S
DEFL.	in (loc)	l/defl	L/d
Vert(LL)	-0.01	15	n/r
Vert(CT)	-0.02	15	n/r
Horz(CT)	0.00	14	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 129 lb		FT = 20%	

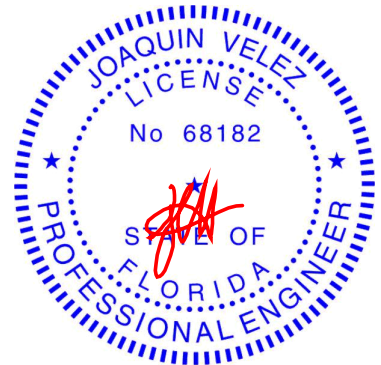
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 23-10-0.
(lb) - Max Horz 2=109(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 19, 18, 17 except 2=285(LC 23), 14=286(LC 24), 24=250(LC 23), 16=250(LC 24)

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, 14, 21, 22, 23, 19, 18, 17.



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

July 25,2024

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534223
6241955	B02	Roof Special	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:01 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-7Wi2A3Ank01S7611A6Ovd9i?rJeH3zq8IPQ5Wyuswe

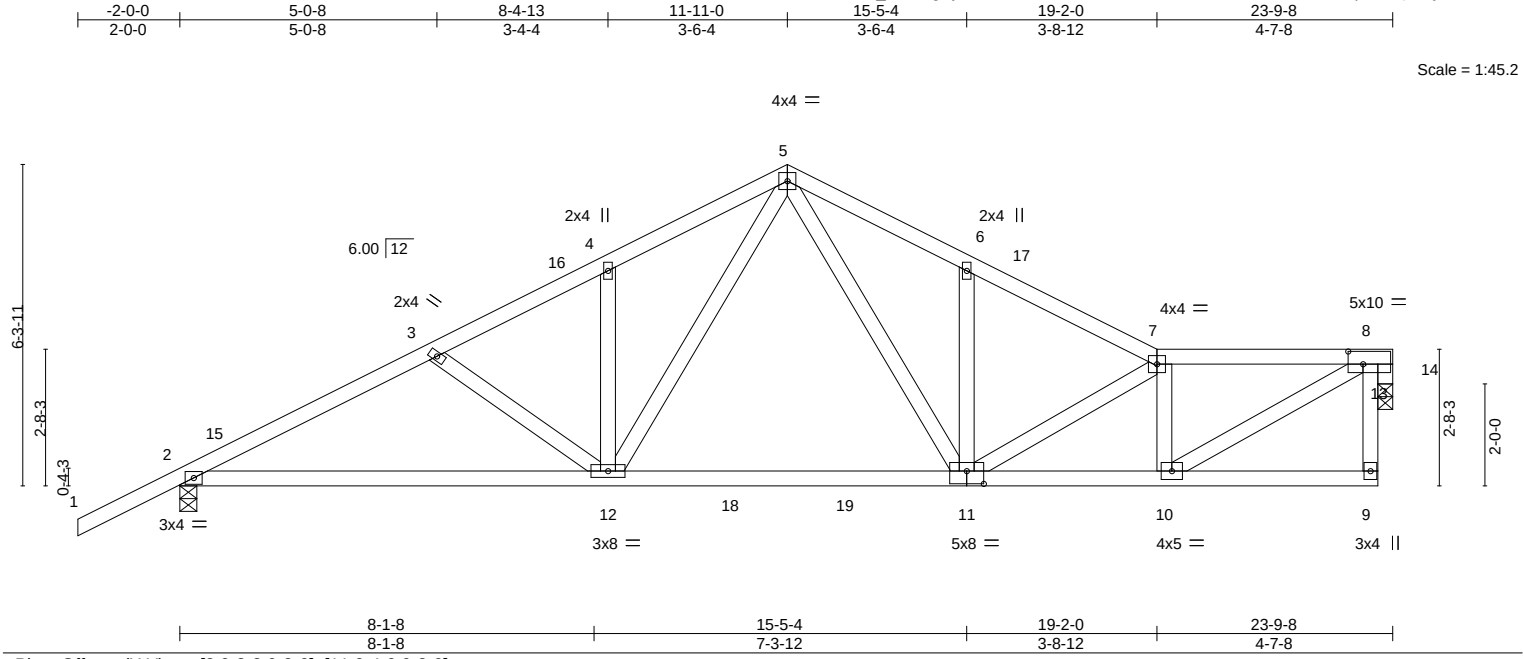


Plate Offsets (X,Y)--		[8:0-3-8,0-3-0], [11:0-4-0,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL 1.25		TC	0.58	Vert(LL)	-0.10 11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.48	Vert(CT)	-0.31 11-12	>904	240		
BCLL	0.0 *	Rep Stress Incr NO		WB	0.41	Horz(CT)	0.02 14	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.04 11-12	>999	240	Weight: 134 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-4-0, 14=0-3-8
Max Horz 2=92(LC 12)
Max Grav 2=1304(LC 17), 14=1132(LC 19)

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

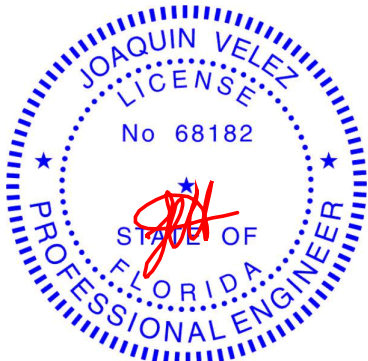
TOP CHORD 2-3=-2085/0, 3-4=-1880/0, 4-5=-1887/0, 5-6=-1870/0, 6-7=-1862/0, 7-8=-1757/0
BOT CHORD 2-12=0/1849, 11-12=0/1227, 10-11=0/1812
WEBS 5-12=0/897, 5-11=0/882, 7-10=-904/0, 8-10=0/1837, 8-14=-1311/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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 11-11-0, Zone2 11-11-0 to 16-1-15, Zone1 16-1-15 to 23-4-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 7-8=-60, 2-12=-20, 11-12=-60, 9-11=-20
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-50, 5-7=-50, 7-8=-50, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35



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

July 25,2024

Continued on page 2

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

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MiTek®

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

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534223
6241955	B02	Roof Special	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:01 2024 Page 2
ID:TS3RJ0261_Xu2fYgSyBHAWzZSLZ-7Wi2A3Ank01S7611A6Ovd9i?rJeH3zq8IPQ5WYuswe

LOAD CASE(S) Standard

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-20, 7-8=-20, 2-12=-40, 11-12=-80, 9-11=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=47, 2-15=32, 5-15=17, 5-17=26, 7-17=17, 7-8=17, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-55, 2-15=-40, 5-15=-25, 5-17=35, 7-17=25
Drag: 7-8=0
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=12, 2-16=17, 5-16=26, 5-7=17, 7-8=17, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-21, 2-16=-25, 5-16=-35, 5-7=25
Drag: 7-8=0
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-5=-32, 5-7=-32, 7-8=-32, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=-12, 2-5=12, 5-7=-12
Drag: 7-8=0
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-5=-32, 5-7=-32, 7-8=-32, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=8, 2-5=12, 5-7=-12
Drag: 7-8=0
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-7=9, 7-8=8, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-24, 2-5=-11, 5-7=17
Drag: 7-8=0
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-5=9, 5-7=3, 7-8=18, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-13, 2-5=-17, 5-7=11
Drag: 7-8=0
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-5=-28, 5-7=-12, 7-8=-21, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=4, 2-5=8, 5-7=8
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-5=-12, 5-7=-28, 7-8=-21, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=-13, 2-5=-8, 5-7=-8
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-5=15, 5-7=15, 7-8=15, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-37, 2-5=-24, 5-7=24
Drag: 7-8=0
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-5=3, 5-7=3, 7-8=3, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-24, 2-5=-11, 5-7=11
Drag: 7-8=0
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-7=-21, 7-8=-21, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=-4, 2-5=1, 5-7=-1
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-5=-21, 5-7=-21, 7-8=-21, 2-12=-20, 11-12=-60, 9-11=-20
Horz: 1-2=-4, 2-5=1, 5-7=-1
- 16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-20, 7-8=-20, 2-12=-40, 12-18=-80, 18-19=-100, 11-19=-80, 9-11=-40
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-5=-56, 5-7=-44, 7-8=-51, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35
Horz: 1-2=3, 2-5=6, 5-7=6
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-5=-44, 5-7=-56, 7-8=-51, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35
Horz: 1-2=-10, 2-5=-6, 5-7=-6
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car
6241955	B02	Roof Special	1	1	T34534223
Job Reference (optional)					

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:01 2024 Page 3
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-7Wi2A3Ank01S7611A6OVd9i?rJeH3zq8IPQ5WYuswe

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-7=-51, 7-8=-51, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35
Horz: 1-2=-3, 2-5=1, 5-7=-1
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-5=-51, 5-7=-51, 7-8=-51, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35
Horz: 1-2=-3, 2-5=1, 5-7=-1
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-5=-25, 5-7=-25, 7-8=-25, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-2=-16, 2-5=16, 5-7=-16
Drag: 7-8=0
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-5=8, 5-7=8, 7-8=8, 2-12=-12, 11-12=-52, 9-11=-12
Horz: 1-5=-16, 5-7=16
Drag: 7-8=0
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-20, 7-8=-20, 2-12=-20, 11-12=-60, 9-11=-20
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-60, 7-8=-60, 2-12=-20, 11-12=-60, 9-11=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-50, 5-7=-20, 7-8=-20, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35
- 26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-50, 7-8=-50, 2-12=-35, 12-18=-75, 18-19=-90, 11-19=-75, 9-11=-35

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

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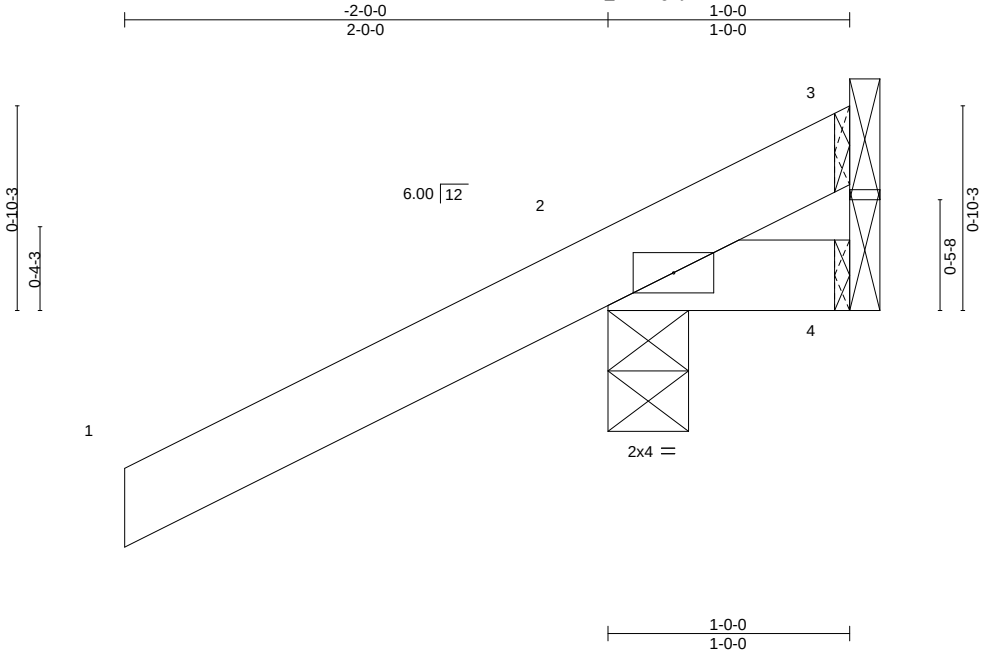
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534224
6241955	C1	Corner Jack	4	1		
Job Reference (optional)						

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

Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:01 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-7Wi2A3Ank01S7611A6OVd9i4WJle33G8IPQ5WYuswe



Scale = 1:9.5

LOADING (psf)	SPACING-	2'-0"	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.00 2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00 2	>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: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1'-0" oc purlins.
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

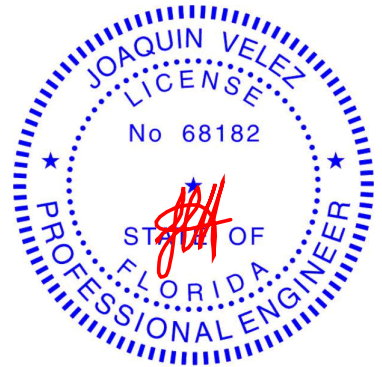
REACTIONS.

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

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6"-0 tall by 2'-0"-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=101, 2=134.



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

July 25,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534225
6241955	C3	Corner Jack	4	1		
Job Reference (optional)						

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

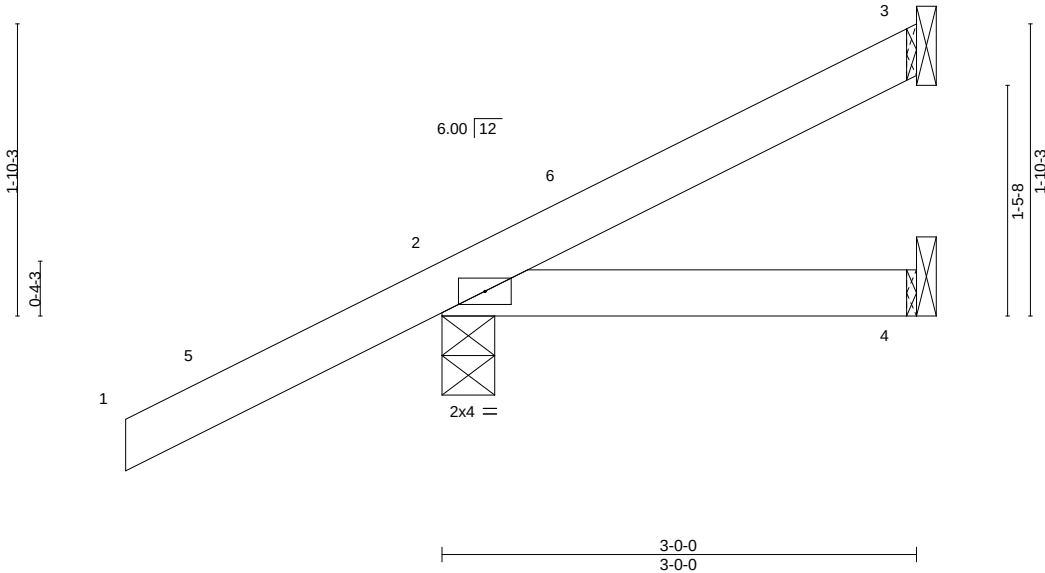
Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:02 2024 Page 1

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Scale = 1:14.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	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/TP12014		Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 13 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-86(LC 12)
Max Grav 3=35(LC 17), 2=292(LC 1), 4=55(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) 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:

July 25,2024

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MiTek®

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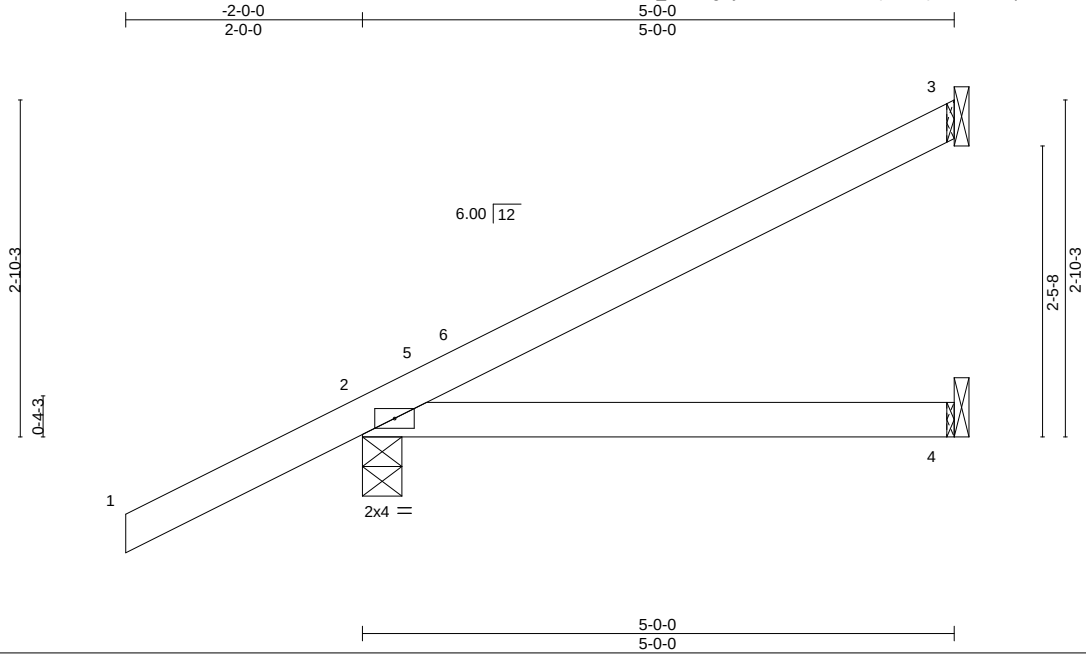
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534226
6241955	C5	Corner Jack	4	1	Job Reference (optional)	

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

Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:02 2024 Page 1

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Scale = 1:19.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.03 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.28	Vert(CT)	-0.06 2-4	>921	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/TP12014		Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

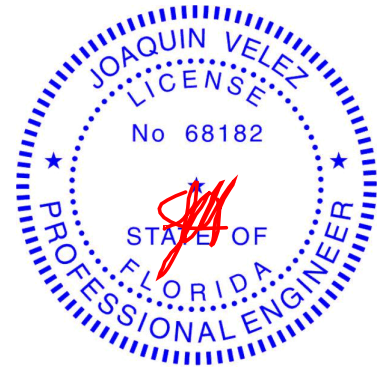
REACTIONS.

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-35(LC 12), 2=-71(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.

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534227
6241955	E01	Roof Special	2	1		
Job Reference (optional)						

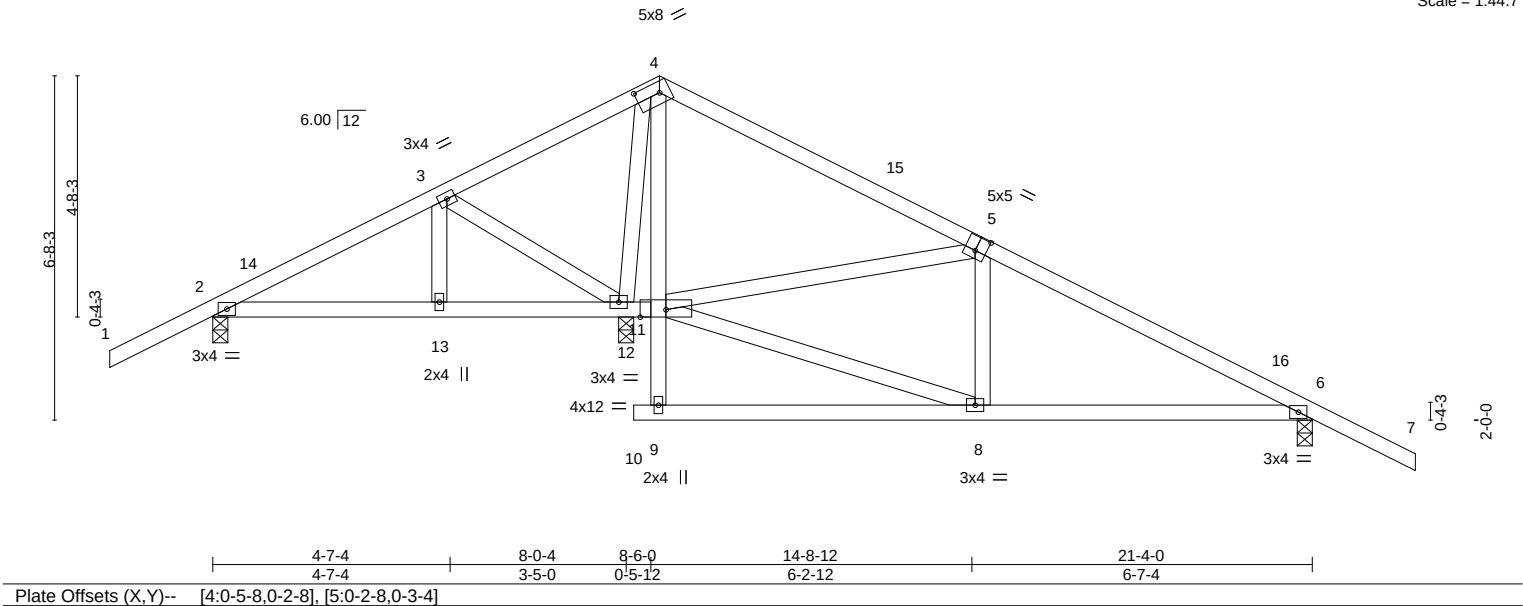
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:03 2024 Page 1

ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-3vqoblC2GdHAMQBQIXQzjanND6L8XttRljuW9Oyuswc

-2-0-0	4-4-12	8-0-4	8-8-0	14-11-4	21-4-0	23-4-0
2-0-0	4-4-12	3-7-8	0-7-12	6-3-4	6-4-12	2-0-0

Scale = 1:44.7



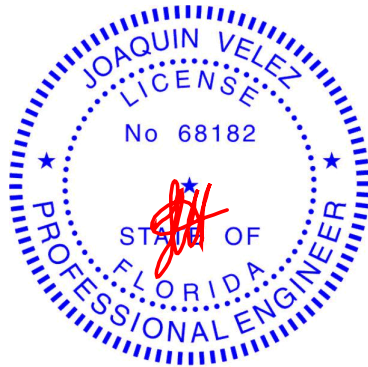
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.46	Vert(LL)	-0.04	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.08	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	-0.01	6-8	>999	240		
									Weight: 121 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.2	10-0-0 oc bracing: 9-11

REACTIONS.	(size) 2=0-3-8, 6=0-3-8, 12=0-3-8
Max Horz	2=-104(LC 10)
Max Uplift	2=-96(LC 12), 6=-106(LC 12)
Max Grav	2=362(LC 23), 6=593(LC 24), 12=1057(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	3-4=0/357, 4-5=0/265, 5-6=602/99
BOT CHORD	6-8=-16/463
WEBS	3-12=-348/79, 8-11=-34/448, 5-11=-620/136, 4-12=-603/45

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 8-7-12, Zone2 8-7-12 to 12-10-11, Zone1 12-10-11 to 23-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=106.



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

July 25,2024

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

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534228
6241955	E01X	GABLE	1	1		

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

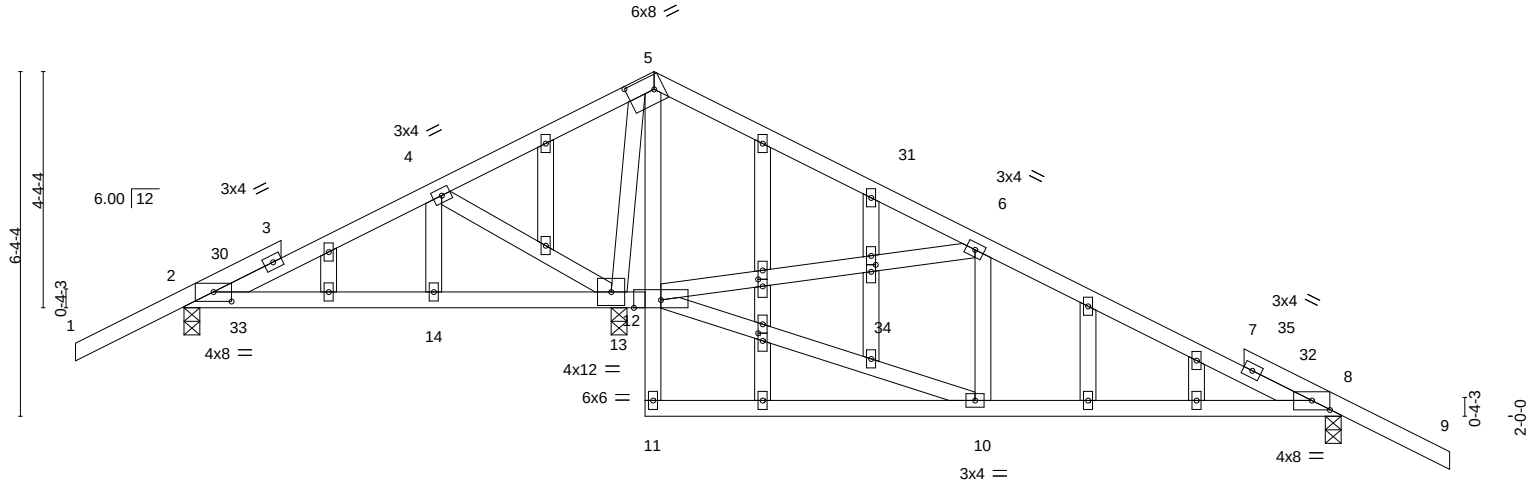
8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:03 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-3vqoblC2GdHAMQBQIXQzjanMR6LuXsTRljiuW9Oyuswc

Job Reference (optional)

-2-0-0	1-9-7	1-11-1	4-7-4	8-8-0	14-8-12	19-4-15	19-6-8	21-4-0	23-4-0
2-0-0	1-9-7	0-1-9	2-8-3	4-0-12	6-0-12	4-8-3	0-1-9	1-9-7	2-0-0

Scale = 1:42.5



	1-9-7	1-11-1	4-7-4	7-10-8	8-6-0	14-8-12	19-4-15	19-6-8	21-4-0
	1-9-7	0-1-9	2-8-3	3-3-4	0-7-8	6-2-12	4-8-3	0-1-9	1-9-7
Plate Offsets (X,Y)--	[2:0-4-0,0-2-1], [5:0-5-14,0-3-0], [8:0-4-0,0-2-1], [20:0-1-9,0-1-0], [22:0-1-11,0-1-0], [25:0-1-9,0-1-0]								

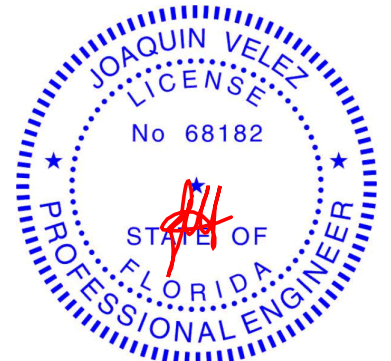
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.04	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.10	8-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	0.05	8-10	>999	Weight: 141 lb	FT = 20%

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

REACTIONS.	(size) 2=0-3-8, 8=0-3-8, 13=0-3-8
	Max Horz 2=173(LC 11)
	Max Uplift 2=-115(LC 12), 8=-187(LC 12), 13=-254(LC 12)
	Max Grav 2=328(LC 23), 8=562(LC 24), 13=1141(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-91/261, 4-5=-101/522, 5-6=-76/405, 6-8=-548/220
BOT CHORD	12-13=-355/225, 8-10=-134/439
WEBS	10-12=-131/438, 6-12=-709/336, 4-13=-366/173, 5-13=-692/186

- 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 8-7-12, Zone2 8-7-12 to 12-10-11, Zone1 12-10-11 to 23-4-0 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=115, 8=187, 13=254.



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

July 25,2024

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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534229
6241955	E02	Monopitch	3	1	Job Reference (optional)	

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

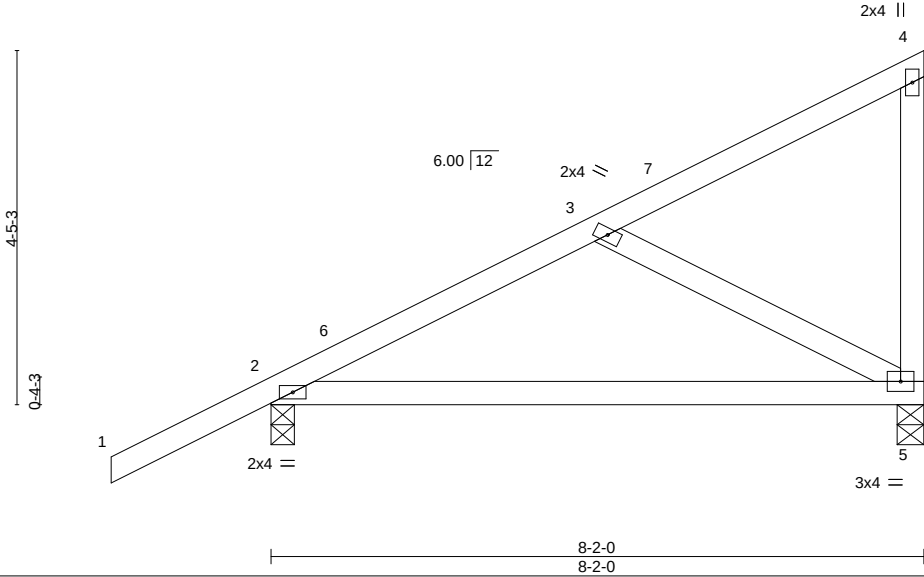
Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:04 2024 Page 1

ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-X5OAo5Dg1xP1_amcrEyCFoKadWhIGPda_Nd4hryuswb



Scale = 1:28.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.18 2-5	>527	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.36 2-5	>263	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 41 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

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

REACTIONS.

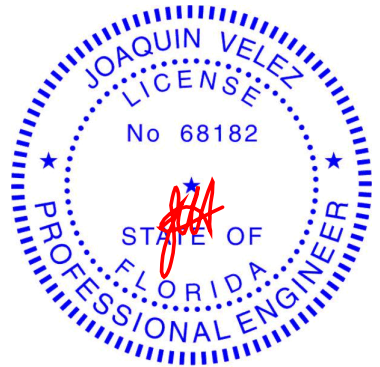
(size) 5=0-4-0, 2=0-3-8
Max Horz 2=132(LC 12)
Max Uplift 5=-28(LC 12), 2=-60(LC 12)
Max Grav 5=297(LC 1), 2=461(LC 1)

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

TOP CHORD 2-3=-322/70
WEBS 3-5=-259/240

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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 8-0-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.



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

July 25,2024

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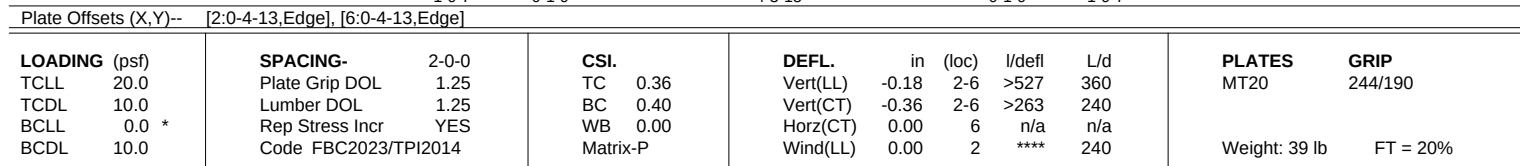
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ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-X5OAo5Dg1xP1_amcrEyCFoKadWhJGQ?a_Nd4hryuswb

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

Scale = 1:22.5



REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-45(LC 10)
 Max Uplift 2=-74(LC 12), 6=-74(LC 12)
 Max Grav 2=444(LC 1), 6=444(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-259/134. 4-6=-259/135

FOR ENRICHMENT: 24-2500000, 10-2500000

- 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 4-1-0, Zone2 4-1-0 to 8-3-15, Zone1 8-3-15 to 10-2-0 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) 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.
 - 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) 2, 6.
- A circular professional engineer seal for Joaquin Velez. The outer ring contains the text "JOAQUIN VELEZ" at the top and "LICENSE" at the bottom. Inside the ring, the text "No 68182" is displayed. The seal is blue and white, with a star on the left and right sides.



July 25, 2024



WARNING – verify design parameters and READ NOTES on this and INCLUDED MITER REFERENCE PAGE MIF-74/3 (rev. 3/2/2023) BEFORE USE.

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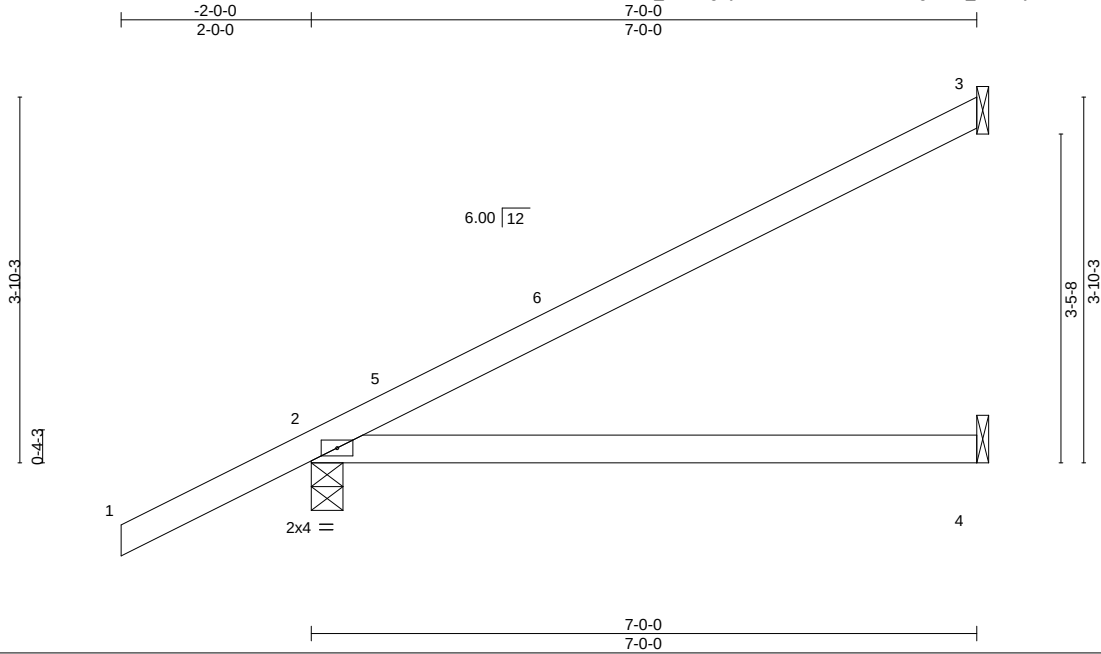
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534231
6241955	E7	Jack-Open	35	1	Job Reference (optional)	

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

Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:04 2024 Page 1

ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-X5OAo5Dg1xP1_amcrEyCFoKU8We6GQ?a_Nd4hryuswb



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.13 2-4	>645	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25 2-4	>322	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2023/TP12014		Matrix-P	Wind(LL)	0.00 2	****	240	Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

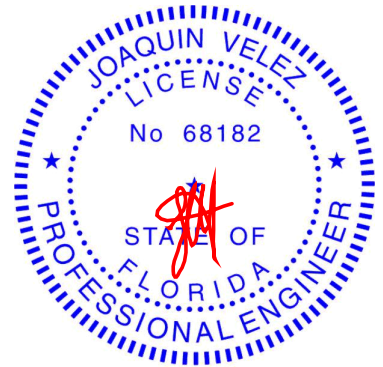
REACTIONS.

(size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

July 25,2024

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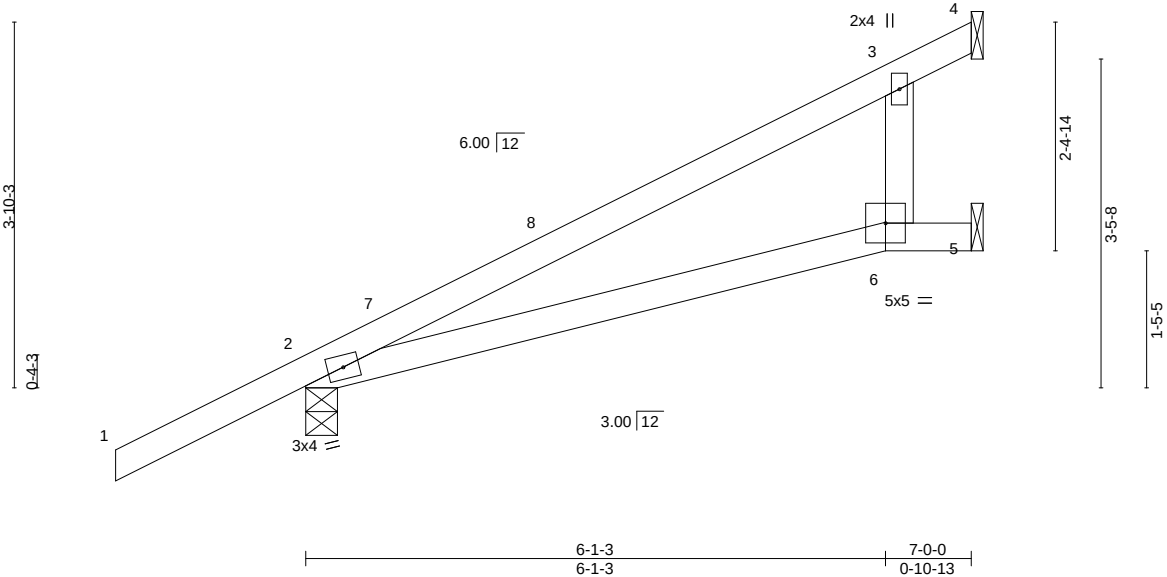
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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534234
6241955	E7VA	Jack-Open	1	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:06 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-TUVxDnEwZYfIDtw?zf_gKDPqpKMrkK0tRh6BmjyusWZ



Scale: 1/2"=1'



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 0.76	Vert(LL)	-0.08 2-6	>966	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.19 2-6	>434	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.03 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.08 6	>999	240	Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

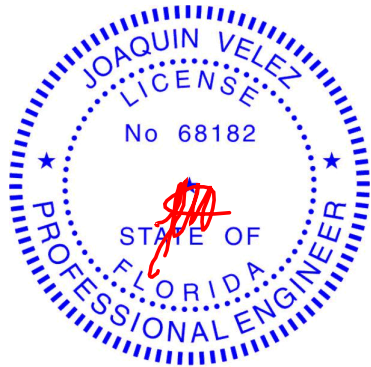
REACTIONS.

(size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 4=-27(LC 12), 2=-63(LC 12)
Max Grav 4=242(LC 1), 2=422(LC 1), 5=17(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; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

July 25,2024

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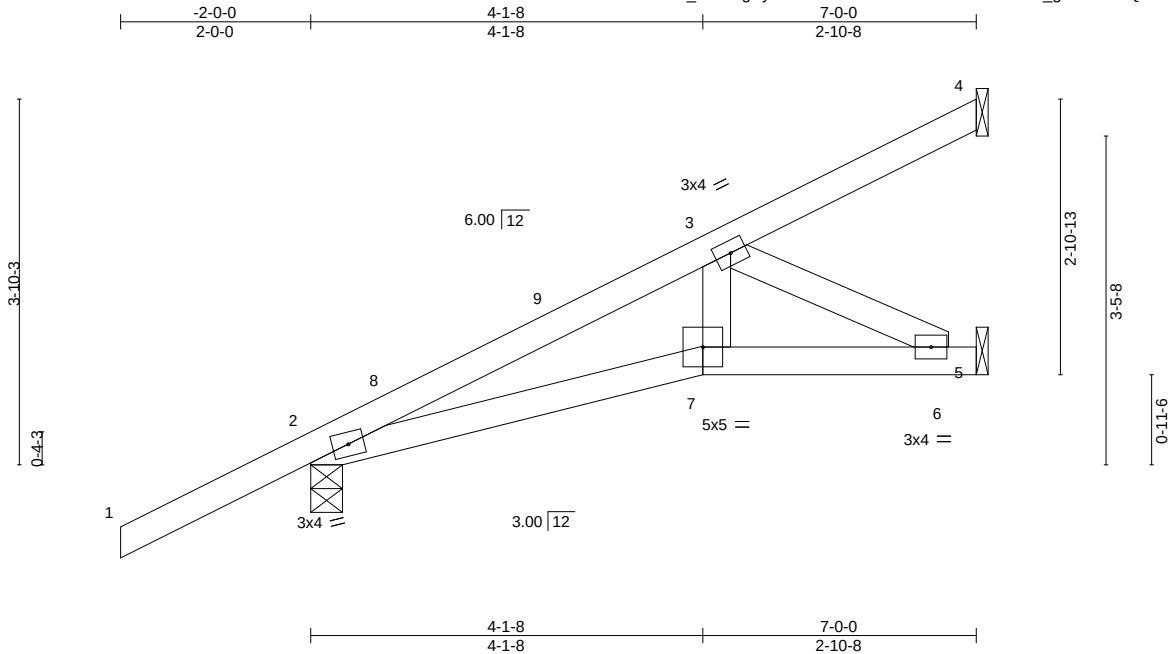
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534235
6241955	E7VB	Jack-Open	1	1		

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

Ocala, FL - 34472,

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:06 2024 Page 1

ID:Ts3RJ0261_Xu2fygSyBHAWzZSLZ-TUVxDnEwZYfDtw?zf_gKDPxwKQ5kYtRh6BmjyuswZ



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 0.31	Vert(LL)	-0.02 2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.04 2-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.01 7	>999	240	Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

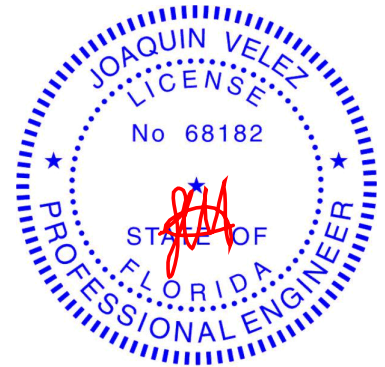
(size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 4=24(LC 12), 2=63(LC 12)
Max Grav 4=65(LC 1), 2=422(LC 1), 5=185(LC 1)

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

TOP CHORD 2-3=-480/106
BOT CHORD 2-7=-210/380, 6-7=-198/341
WEBS 3-6=-381/221

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

July 25,2024

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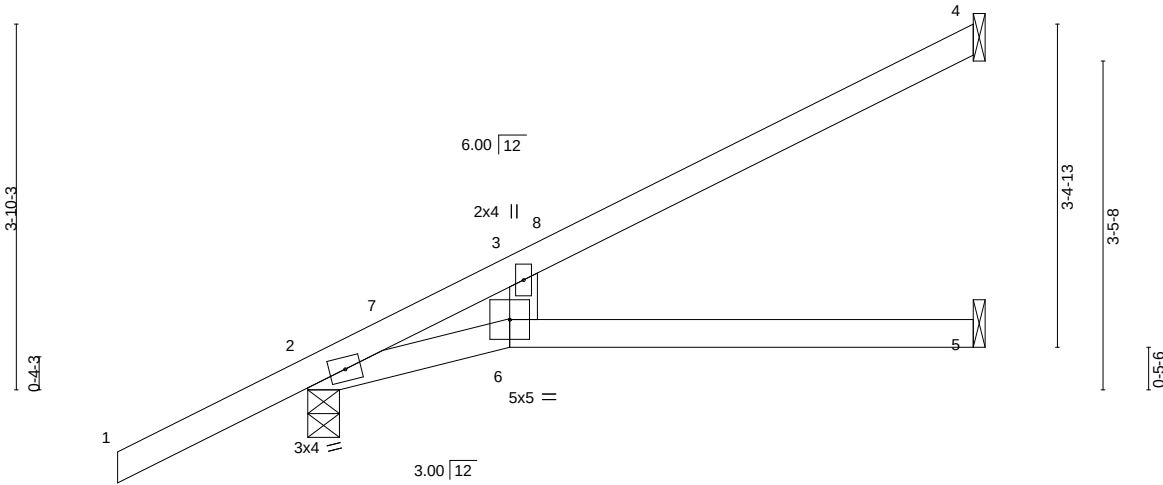
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534236
6241955	E7VC	Jack-Open	1	1		
Job Reference (optional)						

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,
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Scale: 1/2"=1'



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 0.82	Vert(LL)	-0.16	6	>517	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.29	Vert(CT)	-0.31	6	>264	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.08	5	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-P	Wind(LL)	0.19	6	>437	240	
									Weight: 26 lb FT = 20%

LUMBER-

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

BRACING-

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

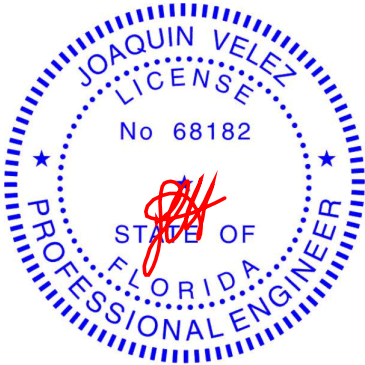
REACTIONS.

(size) 4=Mechanical, 2=0-4-0, 5=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 4=-51(LC 12), 2=-63(LC 12)
Max Grav 4=202(LC 1), 2=422(LC 1), 5=96(LC 3)

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

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

July 25,2024

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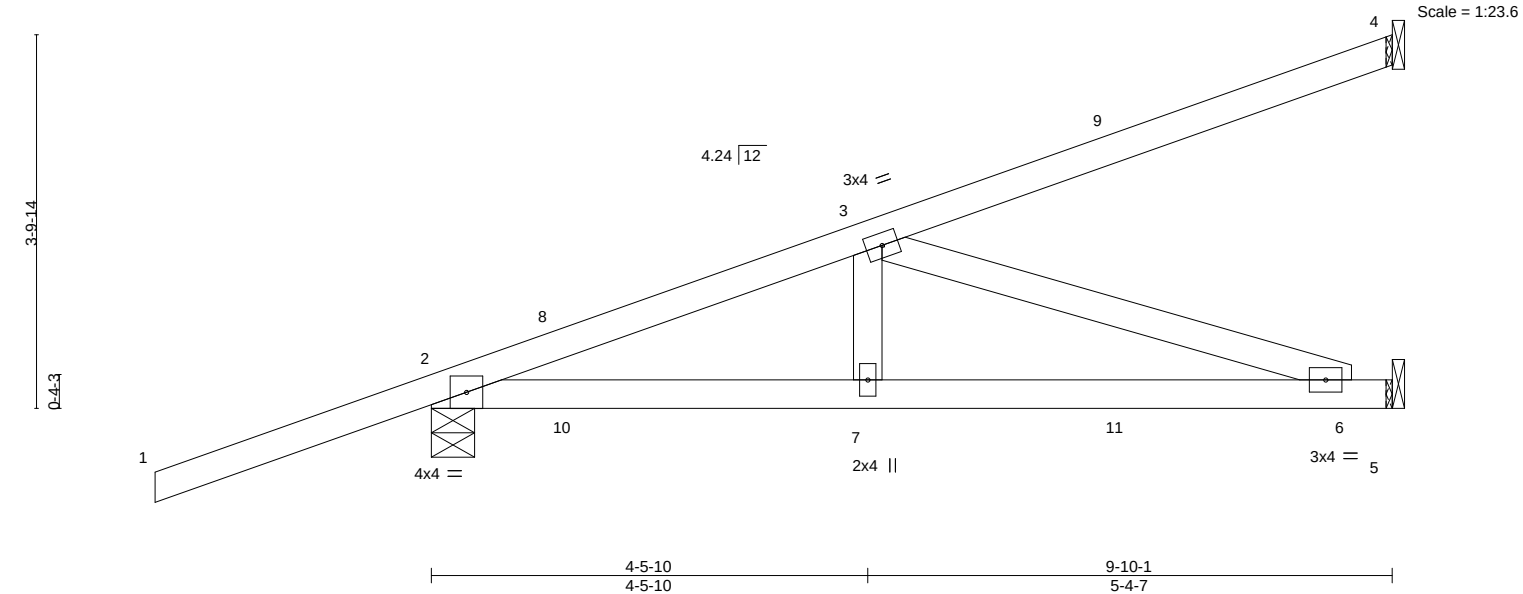
Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534237
6241955	H7	Diagonal Hip Girder	2	1		
Job Reference (optional)						

Tibbetts Lumber Co., LLC (Ocala, FL),
Ocala, FL - 34472,
8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:07 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-yg3JQ7FYKsncr1VBXNVvtQyzYkftThS1gLskl9yuswY

-2-9-15
2-9-15

4-5-10
4-5-10

9-10-1
5-4-7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	-0.06 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.14 6-7	>843	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.34	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-S	Wind(LL)	-0.03 2-7	>999	240	Weight: 44 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-5-5, 5=Mechanical
Max Horz 2=119(LC 27)
Max Uplift 4=50(LC 8), 2=-171(LC 8)
Max Grav 4=164(LC 1), 2=583(LC 31), 5=271(LC 3)

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

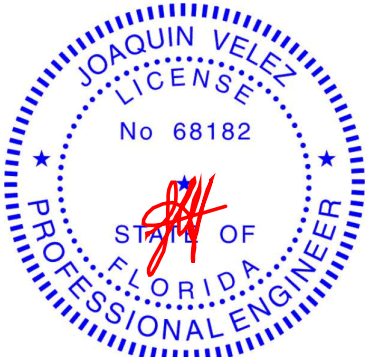
TOP CHORD 2-3=-785/22
BOT CHORD 2-7=-54/667, 6-7=-54/667
WEBS 3-7=0/287, 3-6=-702/57

NOTES-

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=171.
- 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, 54 lb down and 23 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 82 lb down and 56 lb up at 7-0-14, and 82 lb down and 56 lb up at 7-0-14 on top chord, and at 1-4-15, at 1-4-15, 11 lb down at 4-2-15, 11 lb down at 4-2-15, and 39 lb down at 7-0-14, and 39 lb down at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 8=124(F=62, B=62) 9=-58(F=-29, B=-29) 11=-39(F=-19, B=-19)



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

July 25,2024

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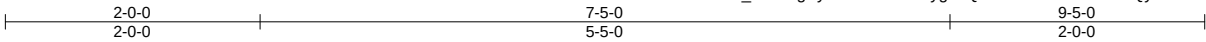
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534238
6241955	PB1	Piggyback	1	1	Job Reference (optional)	

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:07 2024 Page 1

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Scale = 1:18.1

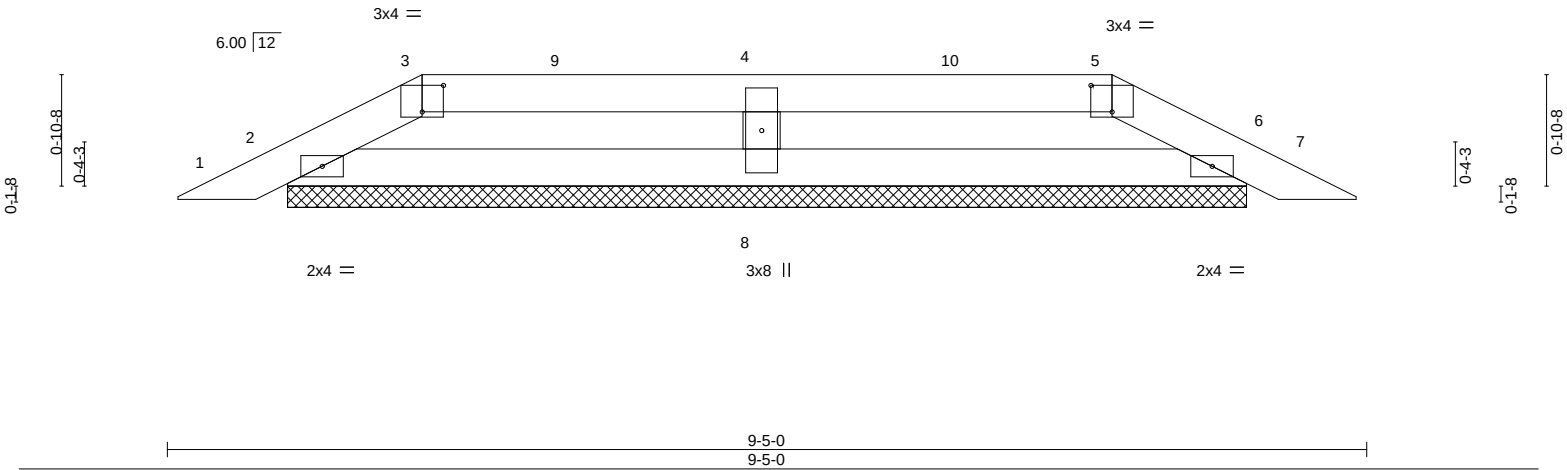


Plate Offsets (X,Y)--		[3:0-2-0,0-2-8], [5:0-2-0,0-2-8]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL 1.25		TC 0.12		Vert(LL) 0.00	7	n/r	120	MT20	244/190
TCDL 10.0		Lumber DOL 1.25		BC 0.14		Vert(CT) 0.00	7	n/r	120		
BCLL 0.0 *		Rep Stress Incr YES		WB 0.02		Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014		Matrix-S						Weight: 26 lb	FT = 20%

LUMBER-

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

BRACING-

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

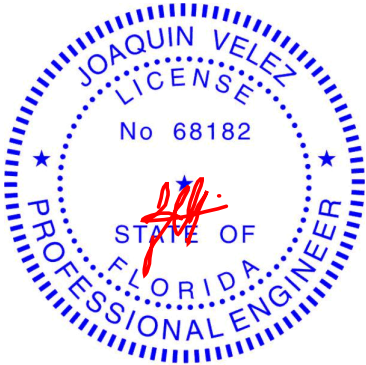
REACTIONS.

(size) 2=7-6-6, 6=7-6-6, 8=7-6-6
Max Horz 2=-14(LC 10)
Max Uplift 2=-29(LC 12), 6=-29(LC 12), 8=-8(LC 9)
Max Grav 2=184(LC 1), 6=188(LC 1), 8=297(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 2-0-0, Zone2 2-0-0 to 6-2-15, Zone1 6-2-15 to 7-5-0, Zone3 7-5-0 to 9-0-5 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

July 25,2024

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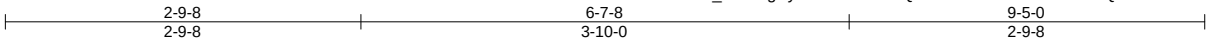
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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534239
6241955	PB2	Piggyback	1	1		
Job Reference (optional)						

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

8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:08 2024 Page 1

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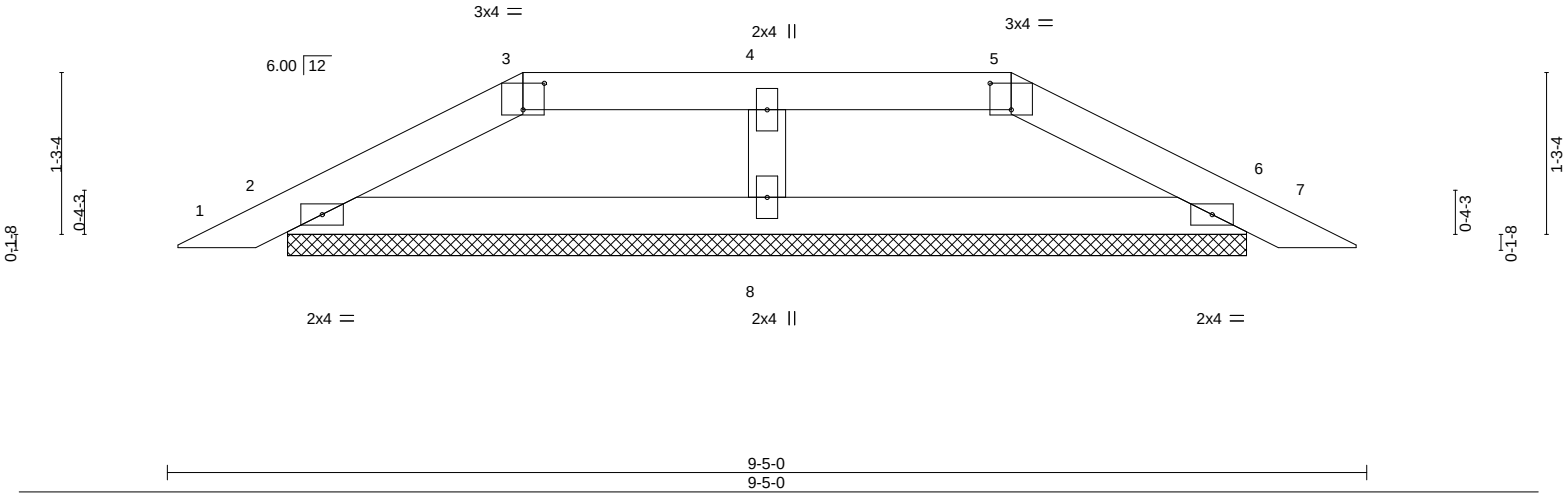


Plate Offsets (X,Y)--		[3:0-2-0,0-2-8], [5:0-2-0,0-2-8]								
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC 0.08		Vert(LL) 0.00 7 n/r 120			MT20 244/190	
TCDL	10.0	Lumber DOL 1.25		BC 0.14		Vert(CT) 0.00 7 n/r 120				
BCLL	0.0 *	Rep Stress Incr YES		WB 0.02		Horz(CT) 0.00 6 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S					Weight: 27 lb FT = 20%	

LUMBER-

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

BRACING-

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

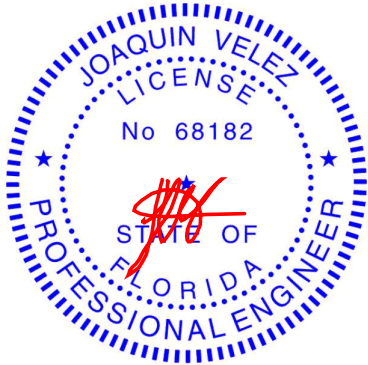
REACTIONS.

(size) 2=7-6-6, 6=7-6-6, 8=7-6-6
Max Horz 2=-20(LC 10)
Max Uplift 2=-35(LC 12), 6=-35(LC 12)
Max Grav 2=209(LC 1), 6=209(LC 1), 8=252(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

July 25,2024

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

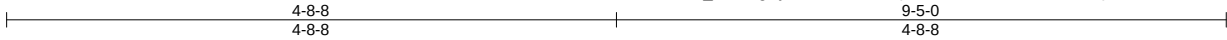
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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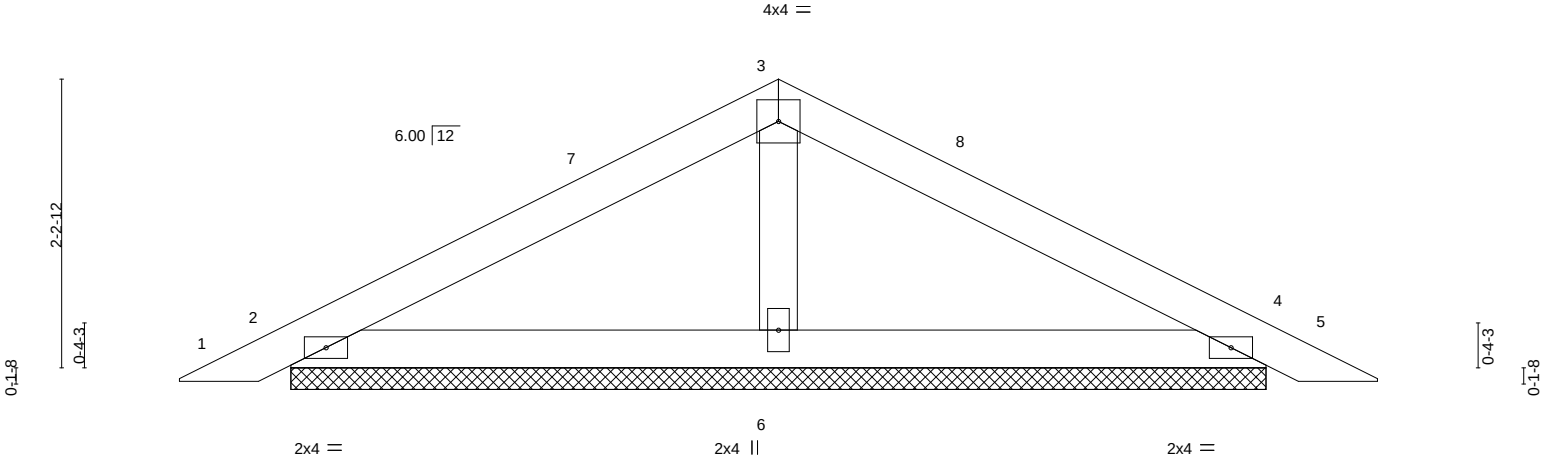
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Job	Truss	Truss Type	Qty	Ply	2508-CR-2 Car	T34534240
6241955	PB3	Piggyback	4	1	Job Reference (optional)	

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jul 11 2024 MiTek Industries, Inc. Wed Jul 24 11:27:08 2024 Page 1
ID:Ts3RJ0261_Xu2fYgSyBHAWzZSLZ-QsdheSGA49vTTB4N4408QeVHH76CCDDAv?bHqcyuswX



Scale = 1:17.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.01 5 n/r 120	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.01 5 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00 4 n/a n/a				
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							
								Weight: 29 lb		FT = 20%	

LUMBER-

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

BRACING-

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

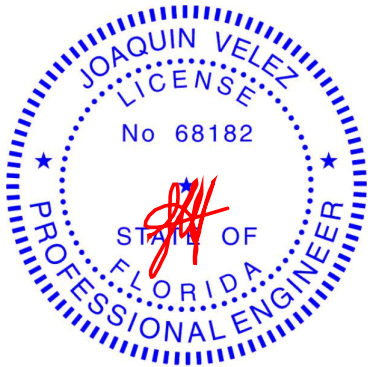
REACTIONS.

(size) 2=7-6-6, 4=7-6-6, 6=7-6-6
Max Horz 2=-36(LC 10)
Max Uplift 2=-38(LC 12), 4=-38(LC 12)
Max Grav 2=188(LC 1), 4=188(LC 1), 6=294(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 3-4-11, Zone1 3-4-11 to 4-8-8, Zone3 4-8-8 to 9-0-5 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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July 25,2024

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Scale = 1:18.1

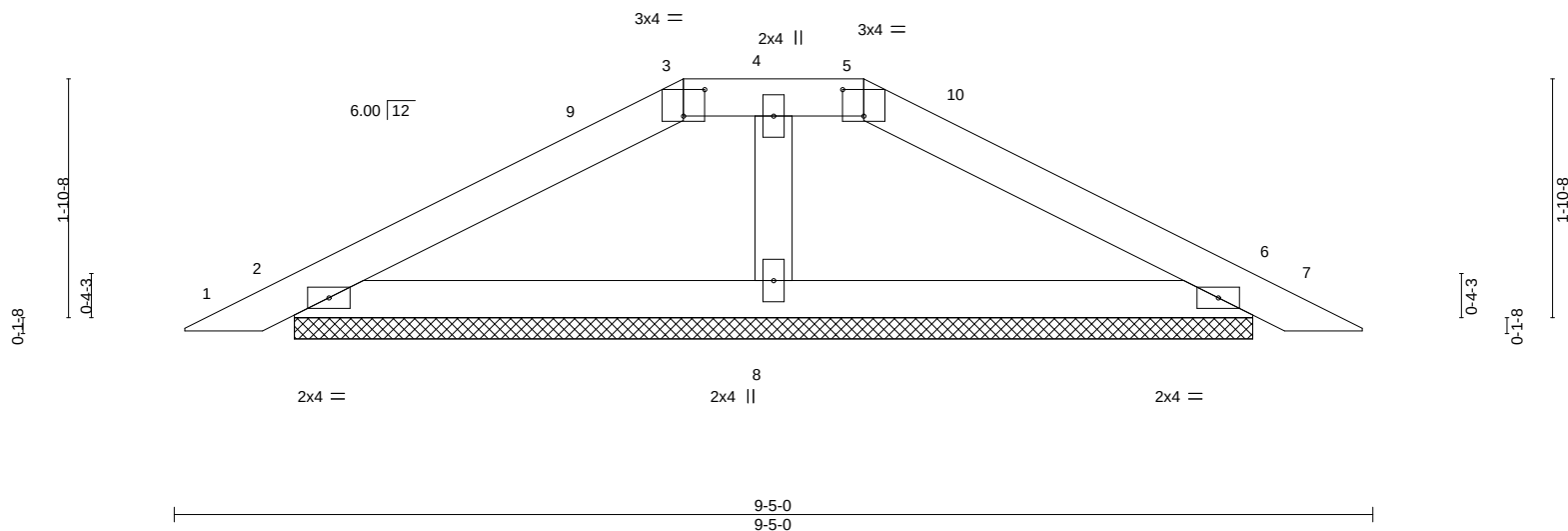


Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 28 lb	FT = 20%

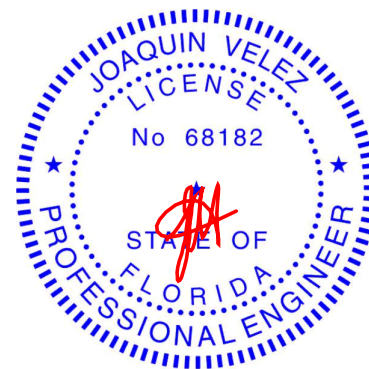
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. (size) 2=7-6-6, 6=7-6-6, 8=7-6-6
 Max Horz 2=30(LC 10)
 Max Uplift 2=38(LC 12), 6=38(LC 12)
 Max Grav 2=203(LC 1), 6=203(LC 1), 8=264(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Zone3 0-4-11 to 3-4-11, Zone1 3-4-11 to 4-0-0, Zone3 4-0-0 to 9-0-5 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

July 25, 2024

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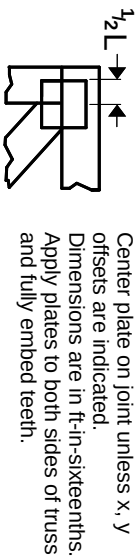
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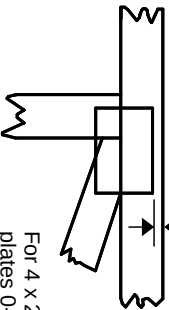
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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

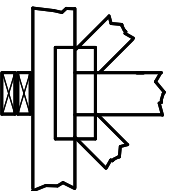
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

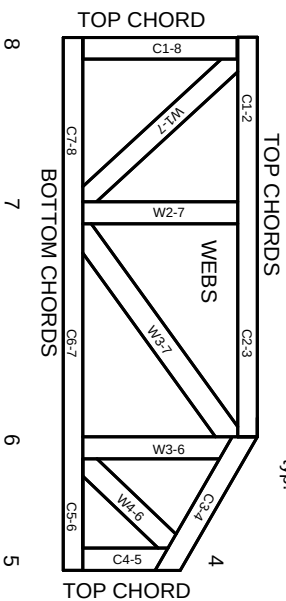
Industry Standards:

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

Numbering System

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

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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