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

RE: 6243110 - 2169-CR

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

Site Information:

Customer Info: Adams Homes-Gainesville Project Name: The Preserve at Laurel Lake 08, Model: 2169 -CR
Lot/Block: 086 Subdivision: The Preserve at Laurel Lake
Address: 345 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):

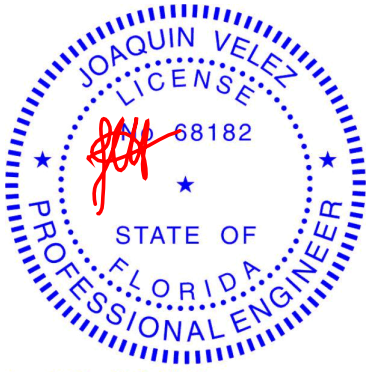
Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 47 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	T35495854	A01	11/8/24	23	T35495876	B01	11/8/24
2	T35495855	A02	11/8/24	24	T35495877	B01X	11/8/24
3	T35495856	A03	11/8/24	25	T35495878	C1	11/8/24
4	T35495857	A04	11/8/24	26	T35495879	C3	11/8/24
5	T35495858	A05	11/8/24	27	T35495880	C3A	11/8/24
6	T35495859	A06	11/8/24	28	T35495881	C5	11/8/24
7	T35495860	A07	11/8/24	29	T35495882	C5A	11/8/24
8	T35495861	A08	11/8/24	30	T35495883	D01	11/8/24
9	T35495862	A09	11/8/24	31	T35495884	D02	11/8/24
10	T35495863	A10	11/8/24	32	T35495885	D03	11/8/24
11	T35495864	A12	11/8/24	33	T35495886	E7	11/8/24
12	T35495865	A13	11/8/24	34	T35495887	G01	11/8/24
13	T35495866	A14	11/8/24	35	T35495888	G02	11/8/24
14	T35495867	A15	11/8/24	36	T35495889	G03	11/8/24
15	T35495868	A16	11/8/24	37	T35495890	G04	11/8/24
16	T35495869	A17	11/8/24	38	T35495891	G05	11/8/24
17	T35495870	A18	11/8/24	39	T35495892	G06	11/8/24
18	T35495871	A19	11/8/24	40	T35495893	G07	11/8/24
19	T35495872	A20	11/8/24	41	T35495894	H5	11/8/24
20	T35495873	A21	11/8/24	42	T35495895	H7	11/8/24
21	T35495874	A22	11/8/24	43	T35495896	PB1	11/8/24
22	T35495875	A23	11/8/24	44	T35495897	PB2	11/8/24

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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: November 8,2024

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.

RE: 6243110 - 2169-CR

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

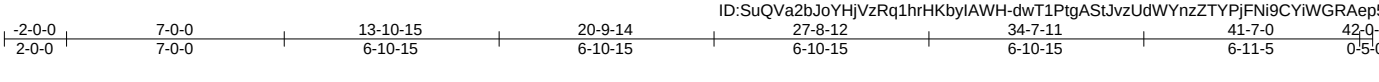
Site Information:

Customer Info: Adams Homes-Gainesville Project Name: The Preserve at Laurel Lake 08 Model: 2169 -CR
Lot/Block: 086 Subdivision: The Preserve at Laurel Lake
Address: 345 SW Silver Palm Dr , .
City: Lake City State: Fl

No.	Seal#	Truss Name	Date
45	T35495898	PB3	11/8/24
46	T35495899	PB5	11/8/24
47	T35495900	PB6	11/8/24

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A01	Hip Girder	1	2	T35495854
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:18 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-dwT1PtgAStJvzUdWYnzZTYPjFNi9CYiWGRAep5yLan7



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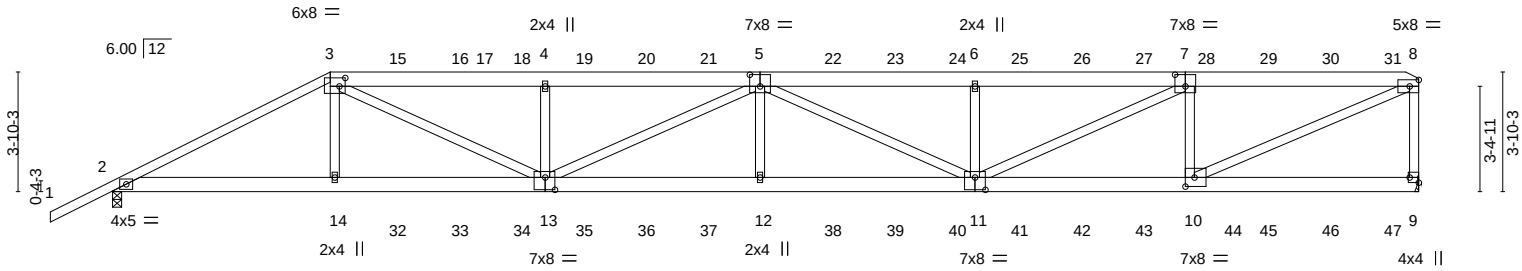


7-0-0	13-10-15	20-9-14	27-8-12	34-7-11	42-0-0
7-0-0	6-10-15	6-10-15	6-10-15	6-10-15	7-4-5

Plate Offsets (X,Y)-- [3:0-2-4,0-3-4], [5:0-4-0,0-4-8], [7:0-4-0,0-4-8], [9:Edge,0-3-8], [10:0-3-8,0-3-8], [11:0-4-0,0-4-12], [13:0-3-12,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.36	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.73	12	>687	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.12	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.24	12	>999	240	Weight: 550 lb	FT = 20%

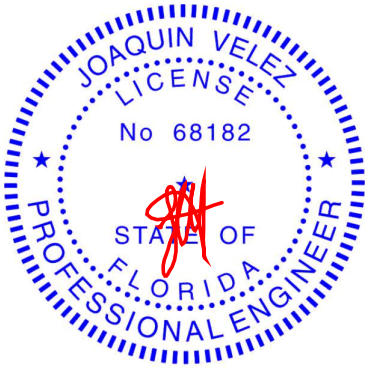
LUMBER-
TOP CHORD 2x6 SP No.2 *Except* 1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 11-13: 2x6 SP DSS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=Mechanical
Max Horz 2=116(LC 26)
Max Uplift 2=-220(LC 8), 9=-246(LC 8)
Max Grav 2=3306(LC 1), 9=3479(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-6619/314, 3-4=-9521/624, 4-5=-9519/623, 5-6=-9609/689, 6-7=-9609/689, 7-8=-6235/465, 8-9=-3308/328
BOT CHORD 2-14=-240/5835, 13-14=-231/5857, 12-13=-680/10754, 11-12=-680/10754, 10-11=-416/6345
WEBS 3-14=0/737, 3-13=-364/4159, 4-13=-936/290, 5-13=-1405/137, 5-12=0/613, 5-11=-1276/64, 6-11=-786/251, 7-11=-231/3650, 7-10=-2571/409, 8-10=-468/6786

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=220, 9=246.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: November 8,2024

Continued on page 2

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

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 17-0-12, 123 lb down and 83 lb up at 19-0-12, 123 lb down and 83 lb up at 21-0-12, 123 lb down and 83 lb up at 23-0-12, 123 lb down and 83 lb up at 25-0-12, 123 lb down and 83 lb up at 27-0-12, 123 lb down and 83 lb up at 29-0-12, 123 lb down and 83 lb up at 31-0-12, 123 lb down and 83 lb up at 33-0-12, 123 lb down and 83 lb up at 35-0-12, 123 lb down and 83 lb up at 37-0-12, and 123 lb down and 83 lb up at 39-0-12, and 130 lb down and 81 lb up at 41-0-12 on top chord, and 315 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, 96 lb down at 27-0-12, 96 lb down at 29-0-12, 96 lb down at 31-0-12, 96 lb down at 33-0-12, 96 lb down at 35-0-12, 96 lb down at 37-0-12, and 96 lb down at 39-0-12, and 100 lb down at 41-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

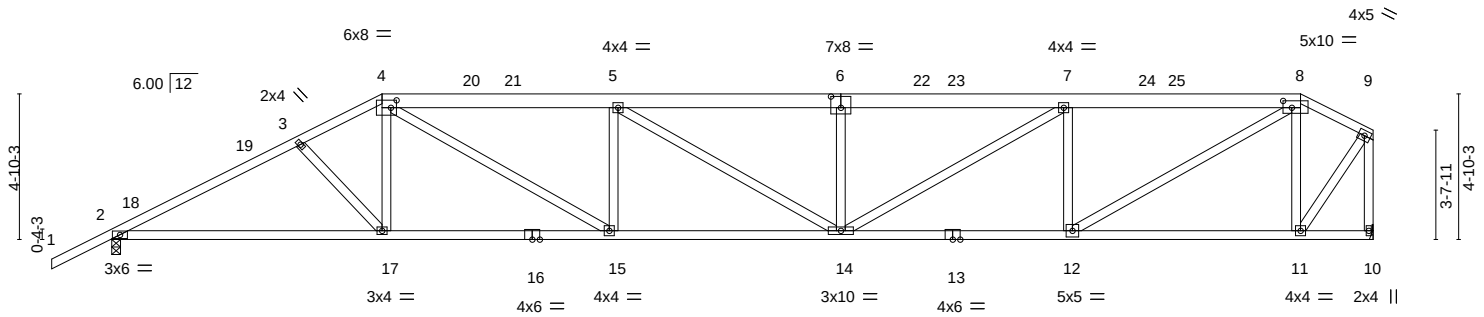
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 2-9=-20
   Concentrated Loads (lb)
   Vert: 3=-123(F) 14=-275(F) 5=-123(F) 12=-48(F) 15=-123(F) 16=-123(F) 18=-123(F) 19=-123(F) 20=-123(F) 21=-123(F) 22=-123(F) 23=-123(F) 24=-123(F) 25=-123(F) 26=-123(F) 27=-123(F) 28=-123(F) 29=-123(F) 30=-123(F) 31=-130(F) 32=-48(F) 33=-48(F) 34=-48(F) 35=-48(F) 36=-48(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=-50(F)

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A02	HIP	1	1	T35495855
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:19 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-561QdChoDBRmbeCi5UUo?lyuan5vx3hfV5wBLXyLan6

-2-0-0	6-3-6	9-0-0	16-8-9	24-3-5	31-10-2	39-7-0	42-0-0
2-0-0	6-3-6	2-8-10	7-8-9	7-6-13	7-6-13	7-8-14	2-5-0

Scale = 1:76.7



9-0-0	16-8-9	24-3-5	31-10-2	39-7-0	42-0-0
9-0-0	7-8-9	7-6-13	7-6-13	7-8-14	2-5-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.26	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.55	14-15	>903	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.15	14-15	>999	240	Weight: 253 lb	FT = 20%

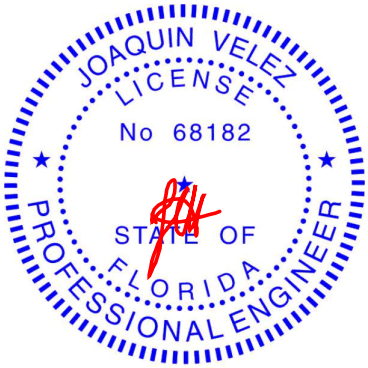
LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-8: 2x6 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=133(LC 11)
Max Uplift 2=-135(LC 12), 10=-71(LC 12)
Max Grav 2=1800(LC 1), 10=1665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3156/232, 3-4=-2934/211, 4-5=-3791/297, 5-6=-3848/287, 6-7=-3848/287, 7-8=-2920/240, 8-9=-980/113, 9-10=-1671/121
BOT CHORD 2-17=-314/2729, 15-17=-238/2606, 14-15=-315/3790, 12-14=-243/2919, 11-12=-96/833
WEBS 4-17=0/407, 4-15=-114/1440, 5-15=-586/142, 6-14=-430/115, 7-14=-65/1083, 7-12=-1065/179, 8-12=-171/2420, 8-11=-1086/172, 9-11=-110/1490

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 39-7-0, Zone3 39-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=135.



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

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A03	Hip	1	1	T35495856
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:20 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZJboqYiQ_VZcDonufB?1YzU08AKKgX8ojlfktzyLan5

-2-0-0	6-4-12	11-0-0	17-8-9	24-3-5	30-10-2	37-7-0	42-0-0
2-0-0	6-4-12	4-7-4	6-8-9	6-6-13	6-6-13	6-8-14	4-5-0

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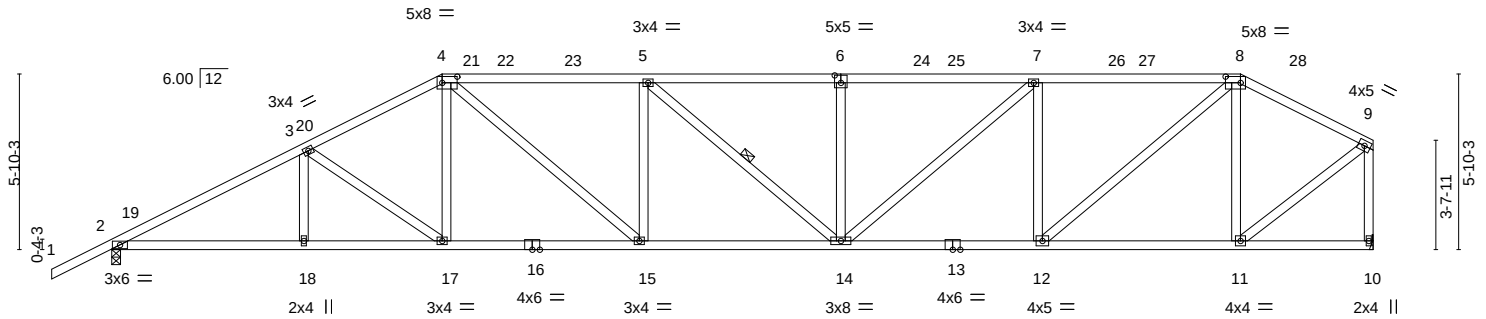


6-4-12	11-0-0	17-8-9	24-3-5	30-10-2	37-7-0	42-0-0
6-4-12	4-7-4	6-8-9	6-6-13	6-6-13	6-8-14	4-5-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.24	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.50	14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.15	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.14	14-15	>999	240	Weight: 244 lb	FT = 20%

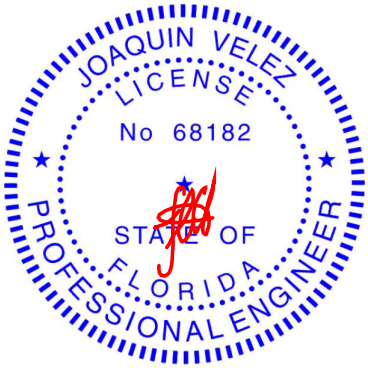
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-14

REACTIONS. (size) 2=0-3-8, 10=Mechanical
Max Horz 2=150(LC 11)
Max Uplift 2=-135(LC 12), 10=-71(LC 12)
Max Grav 2=1800(LC 1), 10=1665(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3192/212, 3-4=-2769/229, 4-5=-3096/271, 5-6=-3087/265, 6-7=-3087/265, 7-8=-2484/233, 8-9=-1395/149, 9-10=-1630/151
BOT CHORD 2-18=-296/2759, 17-18=-296/2759, 15-17=-232/2424, 14-15=-265/3096, 12-14=-217/2484, 11-12=-125/1181
WEBS 3-17=-417/76, 4-17=0/402, 4-15=-62/961, 5-15=-478/122, 6-14=-374/101, 7-14=-49/802, 7-12=-951/157, 8-12=-120/1707, 8-11=-796/143, 9-11=-112/1497

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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 37-7-0, Zone3 37-7-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=135.



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

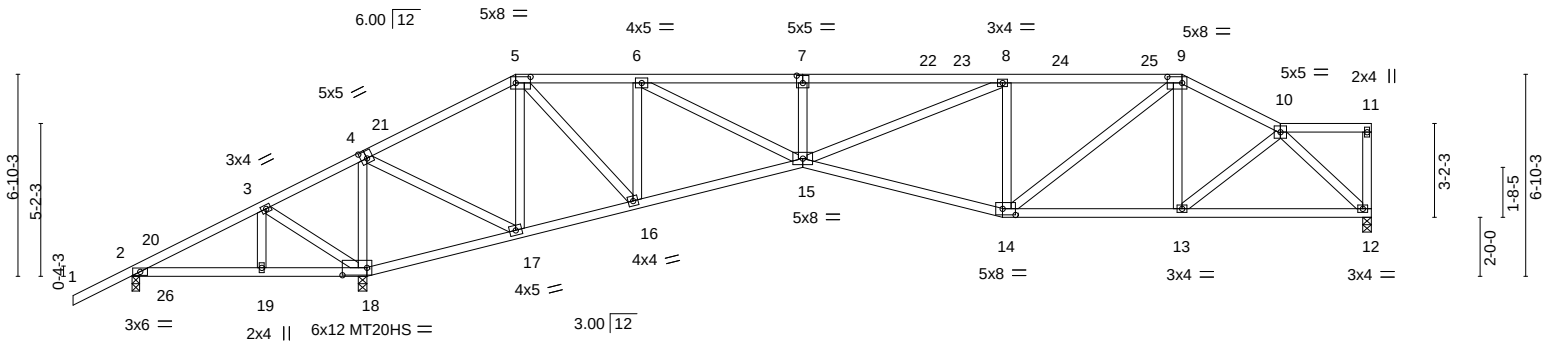
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A04	ROOF SPECIAL	1	1	T35495857
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:20 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-ZJboqYiQ_VZcDonufB?1YzU35ANzgWZojlfktzyLan5

-2-0-0	4-4-11	7-11-8	13-0-0	17-1-8	22-8-12	29-6-0	35-7-0	38-11-0	42-0-0
2-0-0	4-4-11	3-6-13	5-0-8	4-1-8	5-7-5	6-9-4	6-1-0	3-4-0	3-1-0

Scale = 1:78.1



4-4-11	7-9-12	7-11-8	13-0-0	17-1-8	22-8-12	29-6-0	35-7-0	38-11-0	41-8-8	42-0-0
4-4-11	3-5-1	0-1-12	5-0-8	4-1-8	5-7-5	6-9-4	6-1-0	3-4-0	2-9-8	0-3-8

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [7:0-2-8,0-3-0], [9:0-6-0,0-2-8], [14:0-5-4,0-2-8], [18:0-10-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.18	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.40	14-15	>999	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.10	15	>999	240	Weight: 239 lb	FT = 20%

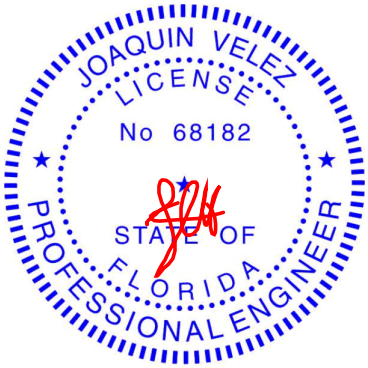
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-2-1 oc bracing.

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=145(LC 9)
Max Uplift 12=-47(LC 12), 2=-701(LC 24), 18=-204(LC 12)
Max Grav 12=1136(LC 1), 18=2822(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-225/1780, 3-4=-310/2079, 5-6=-890/134, 6-7=-2555/226, 7-8=-2555/226, 8-9=-1811/218, 9-10=-1442/175
BOT CHORD 2-19=-1558/85, 18-19=-1558/85, 17-18=-1915/201, 15-16=-106/931, 14-15=-206/1858, 13-14=-147/1253, 12-13=-153/1027
WEBS 4-18=-2093/311, 4-17=-193/2023, 5-17=-1271/189, 5-16=-107/1400, 6-16=-1150/151, 6-15=-167/1868, 7-15=-377/104, 8-15=-58/848, 8-14=-749/155, 9-14=-60/749, 10-13=0/349, 10-12=-1412/178, 3-18=-353/144

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-1-8, Zone1 17-1-8 to 35-7-0, Zone3 35-7-0 to 38-11-0, Zone1 38-11-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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 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=701, 18=204.



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

November 8,2024

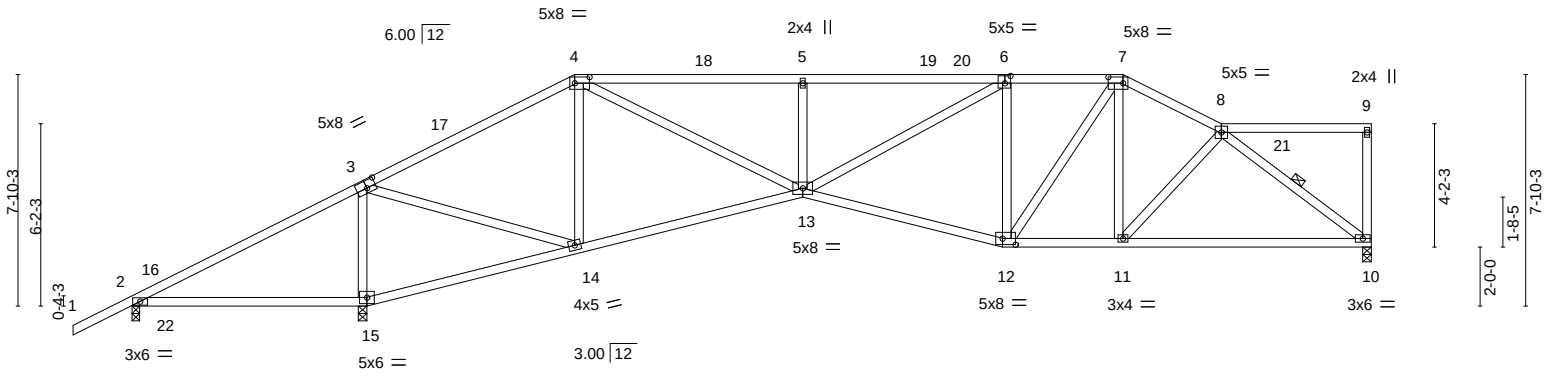
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A05	ROOF SPECIAL	1	1	T35495858
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:21 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-1V9A1uj3lohTqyM4DvWG5A1ElaiRP_tyyPPlPPyLan4

-2-0-0	7-11-8	15-0-0	22-8-12	29-6-0	33-7-0	36-11-0	42-0-0
2-0-0	7-11-8	7-0-8	7-8-12	6-9-4	4-1-0	3-4-0	5-1-0

Scale = 1:78.1



7-9-12	7-11-8	15-0-0	22-8-12	29-6-0	33-7-0	36-11-0	41-8-8	42-0-0
7-9-12	0-1-12	7-0-8	7-8-12	6-9-4	4-1-0	3-4-0	4-9-8	0-3-8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.16	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.34	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.14	2-15	>672	240	Weight: 233 lb	FT = 20%

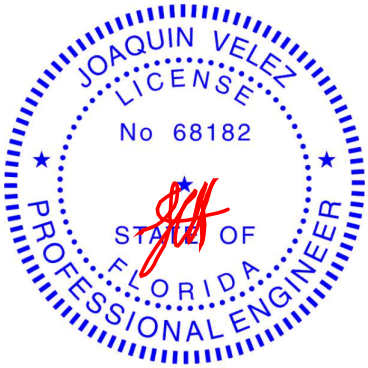
LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 4-6,1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-8-11 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS. (size) 10=0-3-8, 2=0-3-1, 15=0-3-8
Max Horz 2=175(LC 9)
Max Uplift 10=-52(LC 12), 2=-353(LC 24), 15=-181(LC 12)
Max Grav 10=1216(LC 1), 15=2396(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-287/1317, 3-4=-921/129, 4-5=-2327/249, 5-6=-2327/249, 6-7=-1641/234, 7-8=-1550/207
BOT CHORD 2-15=-1066/107, 14-15=-1148/128, 13-14=-140/742, 12-13=-224/1698, 11-12=-168/1345, 10-11=-191/1288
WEBS 3-15=-1965/356, 3-14=-181/1904, 4-14=-840/202, 4-13=-184/1819, 5-13=-490/148, 6-13=-91/827, 6-12=-739/159, 7-12=-72/561, 8-10=-1600/195

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 33-7-0, Zone3 33-7-0 to 36-11-0, Zone1 36-11-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=353, 15=181.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A06	Roof Special	1	1	T35495859
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:21 2024 Page 1
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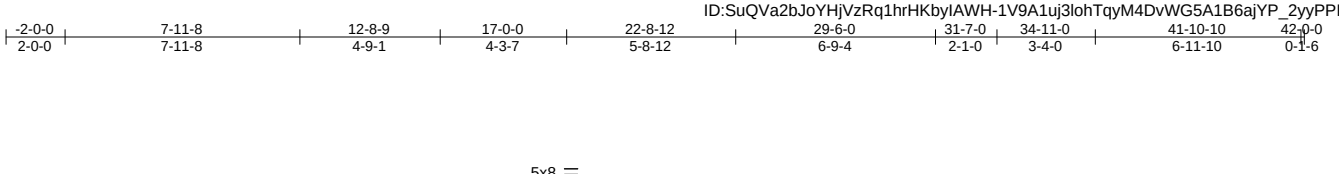

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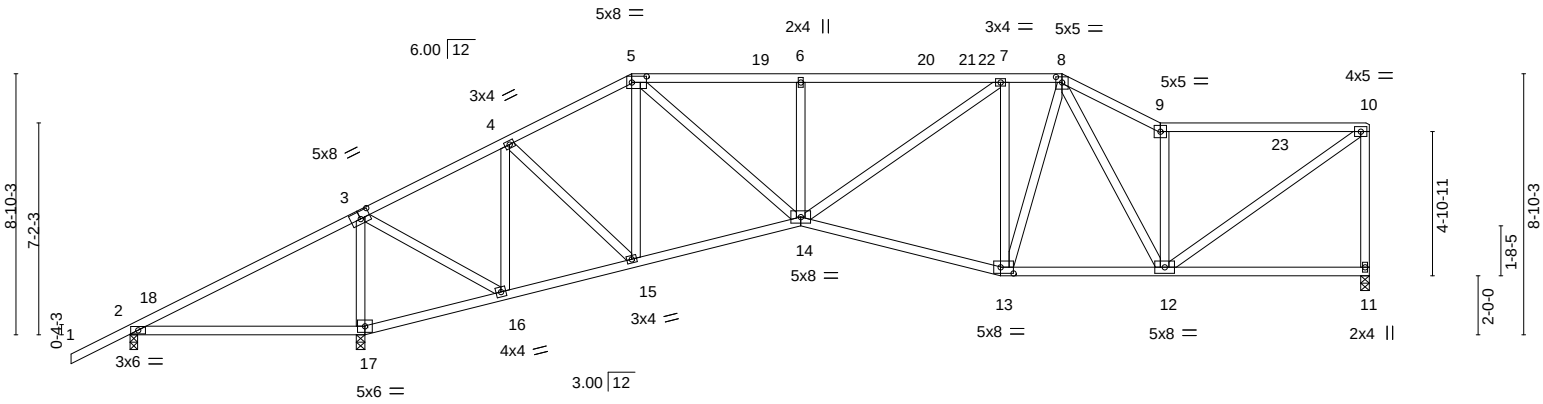


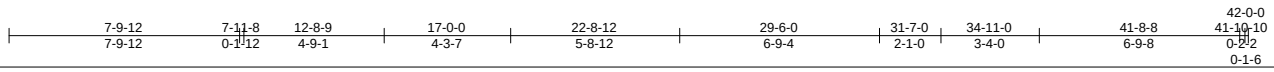


Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-4,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.13	2-17	>706	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.30	13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.06	14	>999	240	Weight: 256 lb	FT = 20%

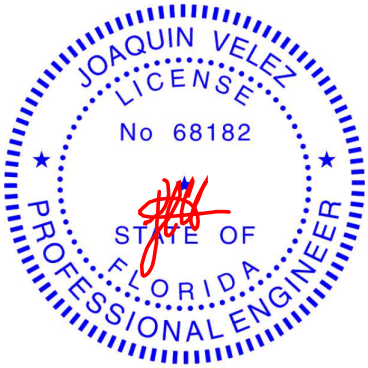
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-0-0 oc bracing: 2-17
5-6-4 oc bracing: 16-17.

REACTIONS. (size) 2=0-3-1, 17=0-3-8, 11=0-3-8
Max Horz 2=205(LC 9)
Max Uplift 2=-266(LC 24), 17=-107(LC 12), 11=-54(LC 12)
Max Grav 2=46(LC 9), 17=2306(LC 1), 11=1233(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-307/1160, 3-4=-531/110, 4-5=-1152/182, 5-6=-1896/250, 6-7=-1896/250, 7-8=-1431/245, 8-9=-1624/284, 9-10=-1368/205, 10-11=-1167/188
BOT CHORD 2-17=-932/120, 16-17=-1081/142, 15-16=-166/425, 14-15=-221/1008, 13-14=-243/1475, 12-13=-208/1288
WEBS 3-17=-1899/345, 3-16=-216/1627, 4-15=-74/796, 5-15=-573/125, 5-14=-136/1225, 6-14=-415/132, 7-14=-103/634, 7-13=-713/194, 8-13=-74/550, 9-12=-1043/237, 10-12=-169/1646, 4-16=-1067/203

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 31-7-0, Zone3 31-7-0 to 34-11-0, Zone1 34-11-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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=266, 17=107.



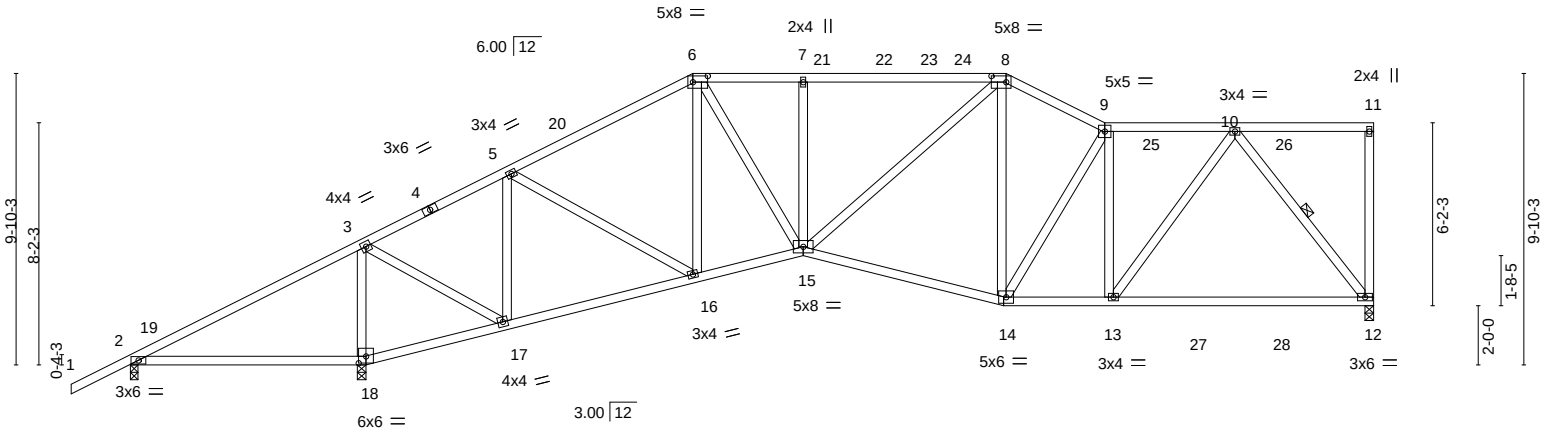
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A07	Roof Special	1	1	T35495860
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:22 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-VhjYFEkhW6pKS6xHnc2VdOaNl_?q8RR5B38rysyLan3

-2-0-0	7-11-8	12-8-11	19-0-0	22-8-12	29-7-0	32-11-0	37-3-12	42-0-0
2-0-0	7-11-8	4-9-3	6-3-5	3-8-12	6-10-4	3-4-0	4-4-12	4-8-4

Scale = 1:77.8



7-9-12	7-11-8	12-8-11	19-0-0	22-8-12	29-6-0	32-11-0	42-0-0
7-9-12	0-1-12	4-9-3	6-3-5	3-8-12	6-9-4	3-5-0	9-1-0

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [18:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.27	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.47	12-13	>859	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	15	>999	240	Weight: 263 lb	FT = 20%

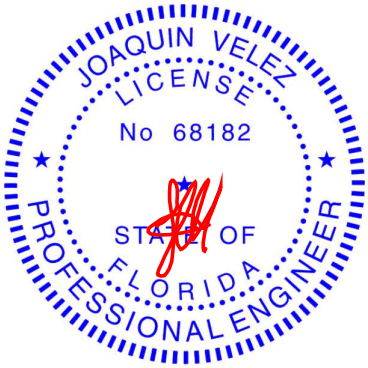
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
4-6-4 oc bracing: 2-18
5-11-8 oc bracing: 17-18.
WEBS 1 Row at midpt 10-12

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=235(LC 9)
Max Uplift 12=-56(LC 12), 2=-140(LC 24), 18=-99(LC 12)
Max Grav 12=1385(LC 19), 2=88(LC 23), 18=2424(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-313/1043, 3-5=-761/130, 5-6=-1531/208, 6-7=-1797/250, 7-8=-1797/250, 8-9=-1578/253, 9-10=-1552/219
BOT CHORD 2-18=-821/104, 17-18=-934/122, 16-17=-218/720, 15-16=-284/1395, 14-15=-249/1473, 13-14=-212/1559, 12-13=-178/918
WEBS 3-18=-1978/342, 3-17=-221/1721, 5-17=-1026/227, 5-16=-82/789, 6-16=-397/118, 6-15=-109/946, 7-15=-378/121, 8-15=-128/583, 9-14=-365/65, 9-13=-598/144, 10-13=-60/1070, 10-12=-1428/200

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 29-7-0, Zone3 29-7-0 to 32-11-0, Zone1 32-11-0 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) 12, 18 except (jt=lb) 2=140.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

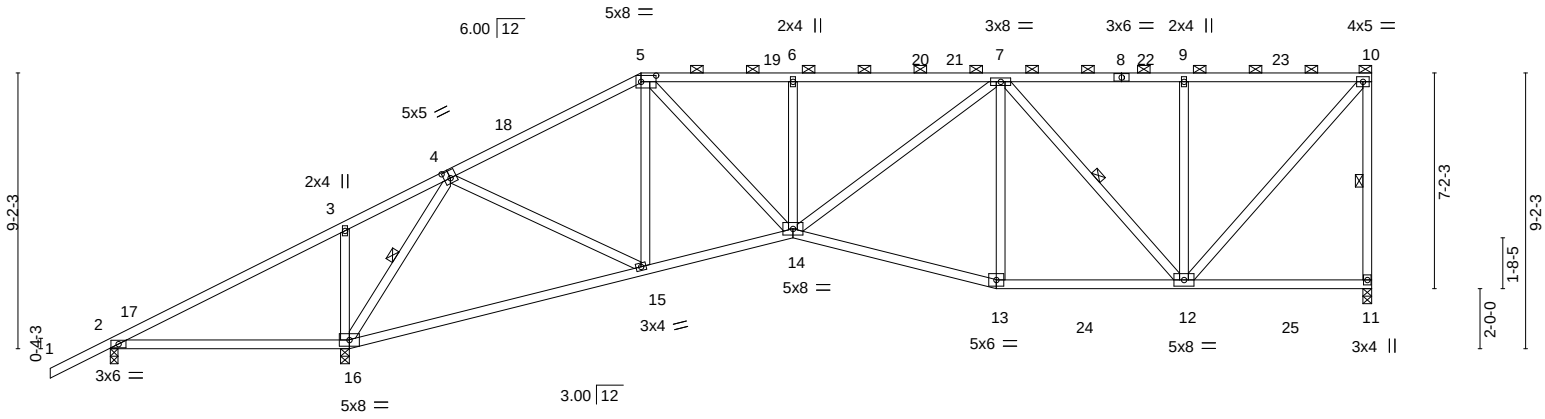
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A08	PIGGYBACK BASE	1	1	T35495861
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:23 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-zuHwSakJHQxB4GWTKKZkAb6YGONWtvlFPjuPUlyLan2

-2-0-0	7-11-8	11-3-14	17-8-1	22-8-12	29-6-0	35-9-0	42-0-0
2-0-0	7-11-8	3-4-6	6-4-3	5-0-11	6-9-4	6-3-0	6-3-0

Scale = 1:76.7



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	35-9-0	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	6-3-0	6-3-0

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.53	15-16	>761	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	14	>999	240	Weight: 252 lb	FT = 20%

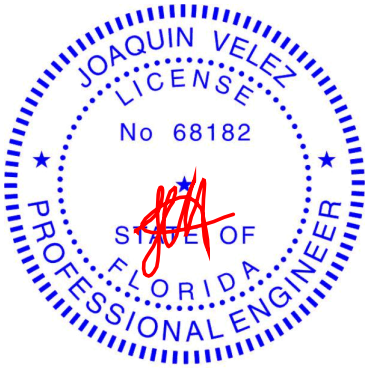
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-6-12 oc bracing: 2-16.
WEBS 1 Row at midpt 10-11, 4-16, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=255(LC 9)
Max Uplift 11=-56(LC 12), 2=-72(LC 16), 16=-104(LC 12)
Max Grav 11=1413(LC 17), 2=66(LC 9), 16=2497(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/1132, 3-4=-226/1046, 4-5=-1456/137, 5-6=-2015/184, 6-7=-2014/184, 7-9=-1067/160, 9-10=-1067/160, 10-11=-1291/137
BOT CHORD 2-16=-904/87, 15-16=-211/261, 14-15=-259/1315, 13-14=-219/1633, 12-13=-205/1561
WEBS 3-16=-388/130, 4-16=-2129/281, 4-15=-58/1188, 5-15=-511/145, 5-14=-103/1125, 6-14=-369/110, 7-14=-137/610, 7-12=-763/84, 9-12=-388/120, 10-12=-120/1547

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 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2 except (jt=lb) 16=104.
7) 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:

November 8,2024

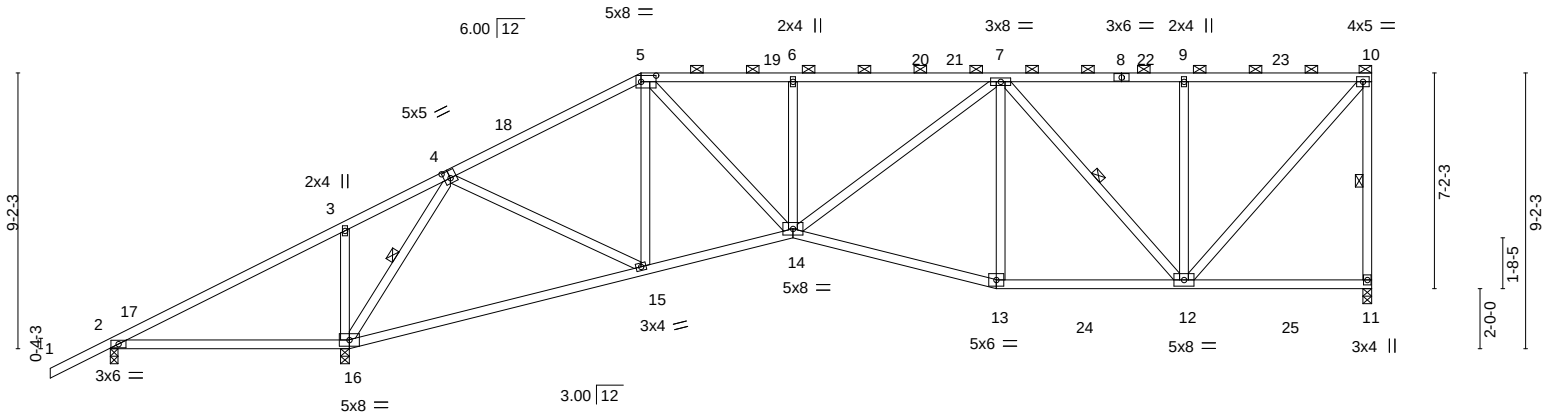
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A09	PIGGYBACK BASE	2	1	T35495862
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:23 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-zuHwSakJHQxB4GWTKKZkAb6YGONWtvlFPjuPUIyLan2

-2-0-0	7-11-8	11-3-14	17-8-1	22-8-12	29-6-0	35-9-0	42-0-0
2-0-0	7-11-8	3-4-6	6-4-3	5-0-11	6-9-4	6-3-0	6-3-0

Scale = 1:76.7



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	35-9-0	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	6-3-0	6-3-0

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.53	15-16	>761	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	14	>999	240	Weight: 252 lb	FT = 20%

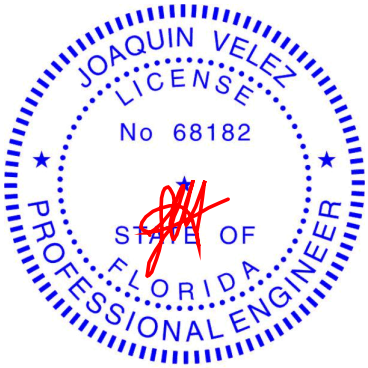
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-14 max.): 5-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-6-12 oc bracing: 2-16.
WEBS 1 Row at midpt 10-11, 4-16, 7-12

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=255(LC 9)
Max Uplift 11=-56(LC 12), 2=-72(LC 16), 16=-104(LC 12)
Max Grav 11=1413(LC 17), 2=66(LC 9), 16=2497(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-310/1132, 3-4=-226/1046, 4-5=-1456/137, 5-6=-2015/184, 6-7=-2014/184, 7-9=-1067/160, 9-10=-1067/160, 10-11=-1291/137
BOT CHORD 2-16=-904/87, 15-16=-211/261, 14-15=-259/1315, 13-14=-219/1633, 12-13=-205/1561
WEBS 3-16=-388/130, 4-16=-2129/281, 4-15=-58/1188, 5-15=-511/145, 5-14=-103/1125, 6-14=-369/110, 7-14=-137/610, 7-12=-763/84, 9-12=-388/120, 10-12=-120/1547

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 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 2 except (jt=lb) 16=104.
7) 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:
November 8,2024

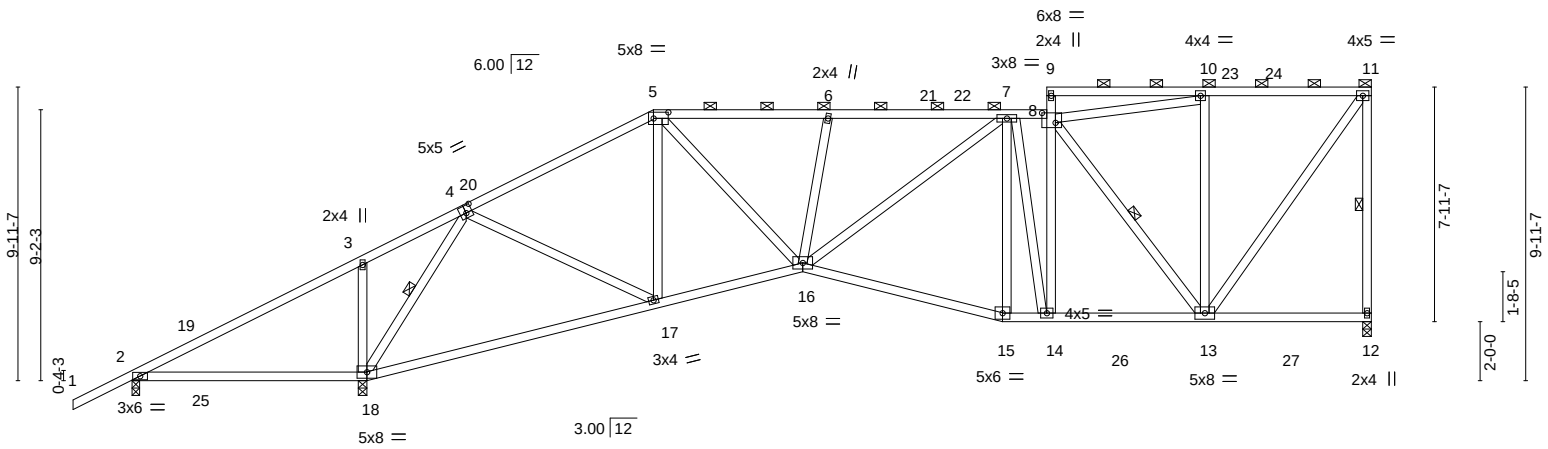
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A10	Piggyback Base	1	1	T35495863
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:24 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-R4qJgwlx2j32hP5fu14zipfjyojocM?OeNdy0kyLan1

-2-0-0	7-11-8	11-3-14	17-8-1	23-7-0	29-6-0	31-0-0	36-4-4	42-0-0
2-0-0	7-11-8	3-4-6	6-4-3	5-11-0	5-11-0	1-6-0	5-4-4	5-7-12

Scale = 1:78.1



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	31-0-0	36-4-4	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-6-0	5-4-4	5-7-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [8:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.53	17-18	>760	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.15	2-18	>616	240	Weight: 283 lb	FT = 20%

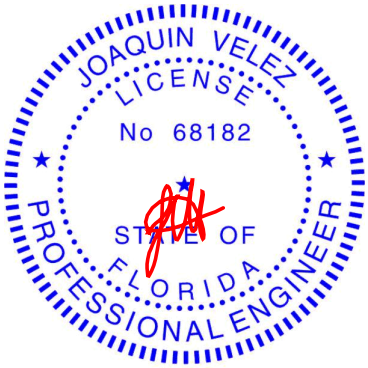
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 5-8, 8-14, 9-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-6-6 oc bracing: 2-18.
WEBS 1 Row at midpt 11-12, 4-18, 8-13

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=266(LC 12)
Max Uplift 12=-71(LC 12), 2=-121(LC 11), 18=-209(LC 12)
Max Grav 12=1411(LC 17), 18=2463(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-254/1144, 3-4=-164/1057, 4-5=-1457/152, 5-6=-1982/262, 6-7=-2035/285, 7-8=-1439/182, 8-14=-24/437, 10-11=-857/115, 11-12=-1299/194
BOT CHORD 2-18=-877/39, 16-17=-178/1301, 15-16=-205/1596, 14-15=-191/1526, 13-14=-184/1452
WEBS 3-18=-390/145, 4-18=-2143/279, 4-17=-79/1185, 5-17=-517/168, 5-16=-144/1073, 6-16=-383/140, 7-16=-120/661, 7-14=-339/52, 8-10=-743/64, 8-13=-972/113, 10-13=-288/146, 11-13=-198/1454

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=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-6, Zone1 2-2-6 to 17-8-1, Zone2 17-8-1 to 23-7-5, Zone1 23-7-5 to 31-1-12, Zone3 31-1-12 to 37-1-1, Zone1 37-1-1 to 41-10-4 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=121, 18=209.
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:

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A12	Piggyback Base	1	1	T35495864
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:24 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-R4qJgwlx2j32hP5fu14zipfjxojrcLHOeNdy0kyLan1

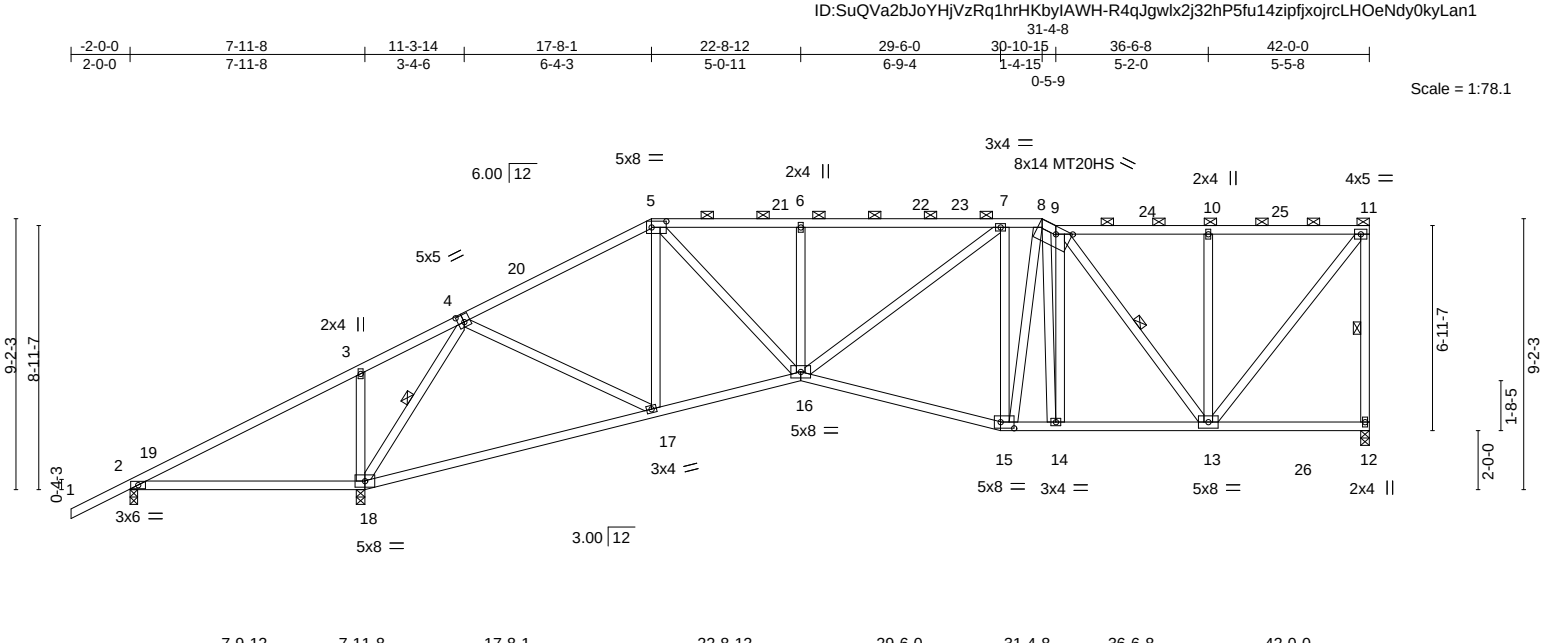


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [8:0-6-2,0-3-0], [15:0-5-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.53	17-18	>762	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.06	16	>999	240	Weight: 279 lb	FT = 20%

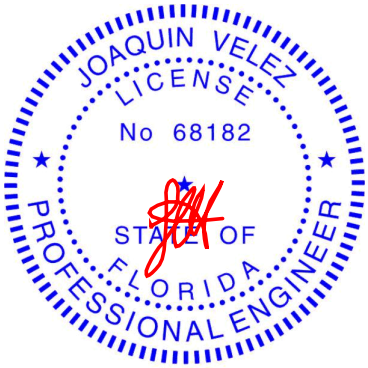
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 5-8, 9-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-6-10 oc bracing: 2-18.
WEBS 1 Row at midpt 11-12, 4-18, 9-13

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=249(LC 9)
Max Uplift 12=-56(LC 12), 2=-198(LC 24), 18=-106(LC 12)
Max Grav 12=1379(LC 17), 2=64(LC 9), 18=2487(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-350/1137, 3-4=-267/1052, 4-5=-1431/159, 5-6=-1976/239, 6-7=-1976/239, 7-8=-1506/208, 8-9=-1577/222, 9-10=-965/162, 10-11=-965/162, 11-12=-1270/188
BOT CHORD 2-18=-907/103, 16-17=-290/1290, 15-16=-274/1584, 14-15=-237/1430, 13-14=-237/1445
WEBS 3-18=-388/127, 4-18=-2114/351, 4-17=-90/1176, 5-17=-516/167, 5-16=-137/1099, 6-16=-390/123, 7-16=-138/619, 7-15=-683/243, 8-15=-118/466, 9-13=-805/108, 10-13=-368/127, 11-13=-164/1483

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone3 30-10-15 to 31-4-8, Zone1 31-4-8 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) 12 except (jt=lb) 2=198, 18=106.
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:

November 8,2024

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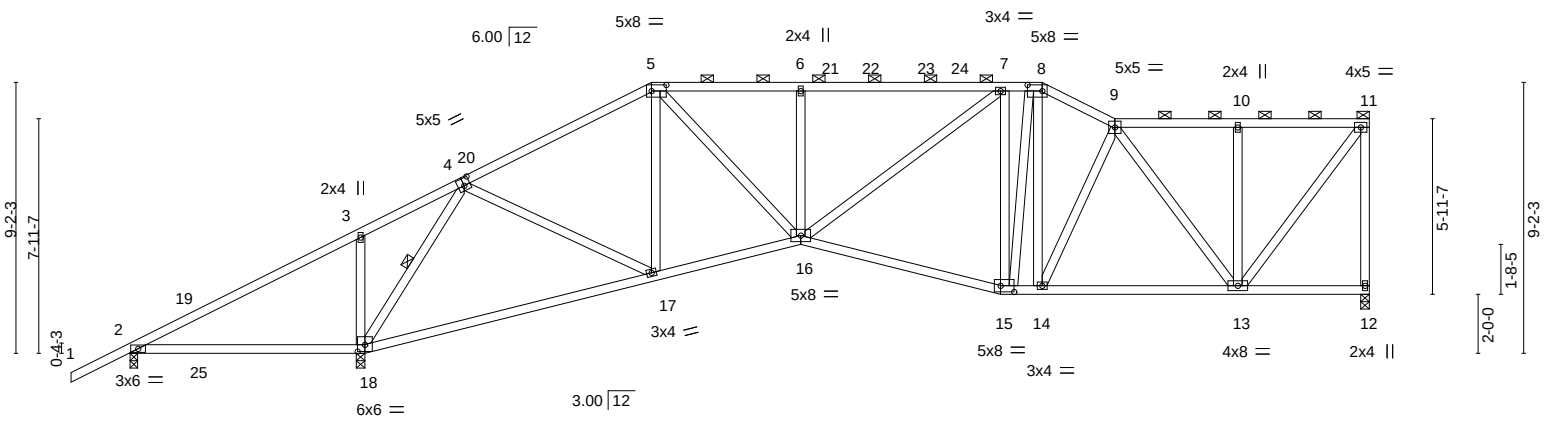
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A13	Piggyback Base	1	1	T35495865
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:25 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-vGOhtGmZp1CvJZgsSlbCF0CueB4zLltXt0NVYByLan0

-2-0-0	7-11-8	11-3-14	17-8-1	22-8-12	29-6-0	30-10-15	33-4-8	37-6-8	42-0-0
2-0-0	7-11-8	3-4-6	6-4-3	5-0-11	6-9-4	1-4-15	2-5-9	4-2-0	4-5-8

Scale = 1:78.1



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	30-10-15	37-6-8	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-4-15	6-7-9	4-5-8

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [8:0-6-0,0-2-8], [15:0-5-8,0-2-8], [18:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.53	17-18	>762	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.09	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.15	2-18	>615	240	Weight: 272 lb	FT = 20%

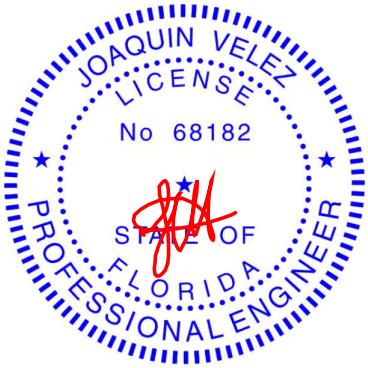
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-9 max.): 5-8, 9-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-6-4 oc bracing: 2-18.
WEBS 1 Row at midpt 4-18

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=218(LC 12)
Max Uplift 12=-62(LC 12), 2=-202(LC 24), 18=-207(LC 12)
Max Grav 12=1247(LC 1), 2=28(LC 23), 18=2234(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-266/1033, 3-4=-178/962, 4-5=-1318/159, 5-6=-1815/277, 6-7=-1814/277, 7-8=-1389/217, 8-9=-1481/201, 9-10=-849/107, 10-11=-848/107, 11-12=-1213/197
BOT CHORD 2-18=-820/54, 16-17=-167/1126, 15-16=-198/1428, 14-15=-159/1297, 13-14=-177/1358
WEBS 3-18=-388/144, 4-18=-1961/320, 4-17=-56/1051, 5-17=-518/152, 5-16=-142/1061, 6-16=-389/139, 7-16=-84/601, 7-15=-758/226, 8-15=-138/540, 9-13=-858/124, 10-13=-294/120, 11-13=-172/1388

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=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 2-2-6, Zone1 2-2-6 to 17-8-1, Zone2 17-8-1 to 23-7-5, Zone1 23-7-5 to 30-10-15, Zone3 30-10-15 to 33-4-8, Zone1 33-4-8 to 41-10-4 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.
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=202, 18=207.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



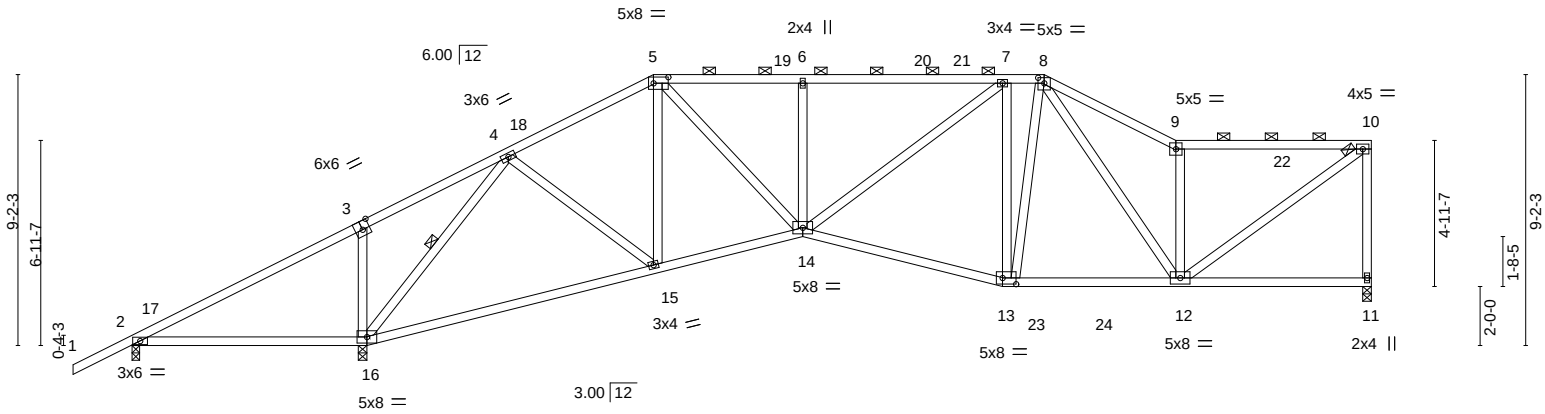
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A14	PIGGYBACK BASE	1	1	T35495866
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:26 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OTy35cnBaLKmxjE2?S6RoEk3UbOH4Clh6g635dyLan?

-2-0-0	7-11-8	12-9-0	17-8-1	22-8-12	23-7-0	29-6-0	30-10-15	35-4-8	42-0-0
2-0-0	7-11-8	4-9-8	4-11-1	5-0-11	0-10-4	5-11-0	1-4-15	4-5-9	6-7-8

Scale = 1:78.1



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	30-10-15	35-4-8	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-4-15	4-5-9	6-7-8

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [13:0-5-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.26	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.54	15-16	>753	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	14	>999	240	Weight: 254 lb	FT = 20%

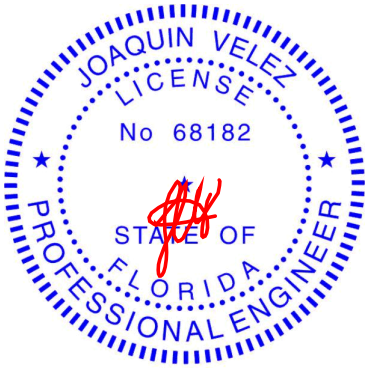
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-10-4 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 4-8-2 oc bracing: 2-16.
WEBS 1 Row at midpt 4-16

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 16=0-3-8
Max Horz 2=206(LC 11)
Max Uplift 11=-54(LC 12), 2=-191(LC 24), 16=-107(LC 12)
Max Grav 11=1361(LC 19), 2=46(LC 23), 16=2472(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-280/1103, 3-4=-190/1041, 4-5=-1422/183, 5-6=-1989/261, 6-7=-1989/261, 7-8=-1542/260, 8-9=-1847/310, 9-10=-1563/217, 10-11=-1263/186
BOT CHORD 2-16=-891/131, 15-16=-204/609, 14-15=-223/1302, 13-14=-237/1607, 12-13=-208/1441
WEBS 3-16=-435/150, 4-16=-2318/325, 4-15=-30/918, 5-15=-470/131, 5-14=-138/1124, 6-14=-392/127, 7-14=-103/630, 7-13=-744/208, 8-13=-82/598, 8-12=-92/300, 9-12=-1100/259, 10-12=-173/1858

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone3 30-10-15 to 35-4-8, Zone1 35-4-8 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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=191, 16=107.
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:

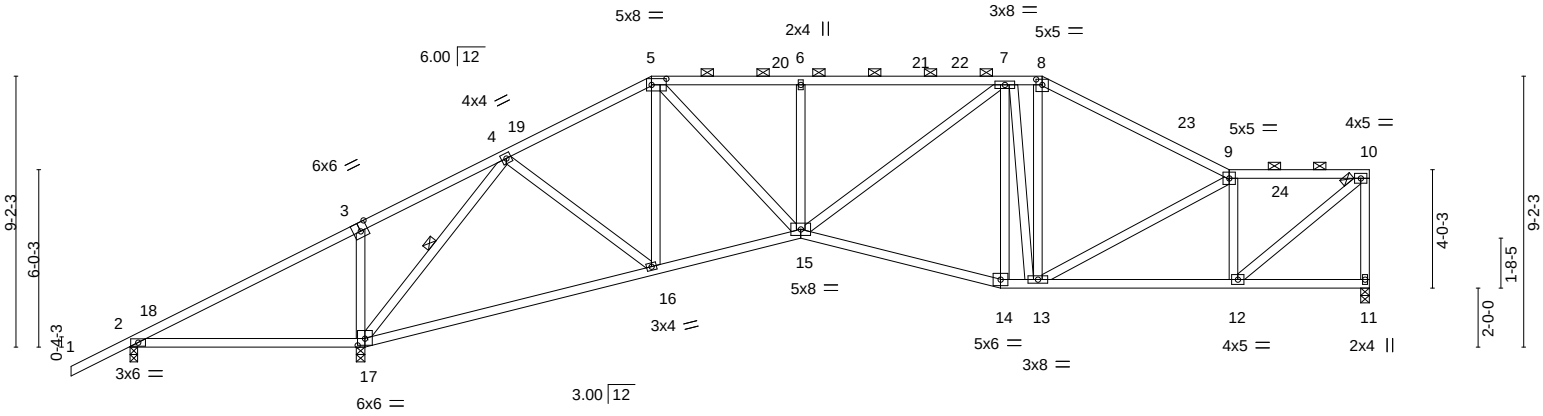
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A15	PIGGYBACK BASE	1	1	T35495867
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:26 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OTy35cnBaLKmxjE2?S6RoEk3bbOf4CMh6g635dyLan?

-2-0-0	7-11-8	12-9-0	17-8-1	22-8-12	23-7-0	29-6-0	30-10-15	37-3-0	42-0-0
2-0-0	7-11-8	4-9-8	4-11-1	5-0-11	0-10-4	5-11-0	1-4-15	6-4-1	4-9-0

Scale = 1:78.1



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	30-10-15	37-3-0	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-4-15	6-4-1	4-9-0

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [5:0-6-0,0-2-8], [8:0-2-8,0-2-4], [17:0-3-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.54	16-17	>755	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	15	>999	240	Weight: 257 lb	FT = 20%

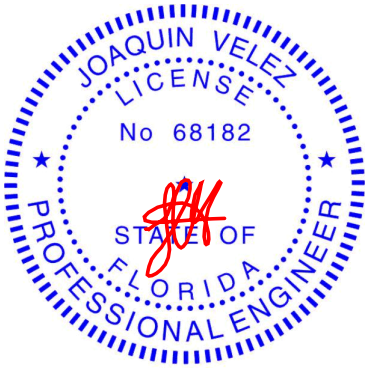
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 5-8, 9-10.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-9-15 oc bracing: 2-17.
WEBS 1 Row at midpt 4-17

REACTIONS. (size) 11=0-3-8, 2=0-3-1, 17=0-3-8
Max Horz 2=193(LC 11)
Max Uplift 11=-54(LC 12), 2=-179(LC 24), 17=-104(LC 12)
Max Grav 11=1253(LC 1), 2=57(LC 23), 17=2198(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-247/960, 3-4=-158/919, 4-5=-1317/174, 5-6=-1841/265, 6-7=-1841/265, 7-8=-1331/232, 8-9=-1561/210, 9-10=-1326/177, 10-11=-1215/168
BOT CHORD 2-17=-755/111, 16-17=-178/531, 15-16=-188/1146, 14-15=-212/1440, 13-14=-197/1391, 12-13=-180/1364
WEBS 3-17=-435/149, 4-17=-2119/305, 4-16=-19/793, 5-16=-464/123, 5-15=-132/1064, 6-15=-393/127, 7-15=-86/619, 7-14=-273/92, 7-13=-516/87, 8-13=-31/561, 9-12=-979/187, 10-12=-168/1705

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone2 30-10-15 to 35-1-14, Zone1 35-1-14 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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=179, 17=104.
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:

November 8,2024

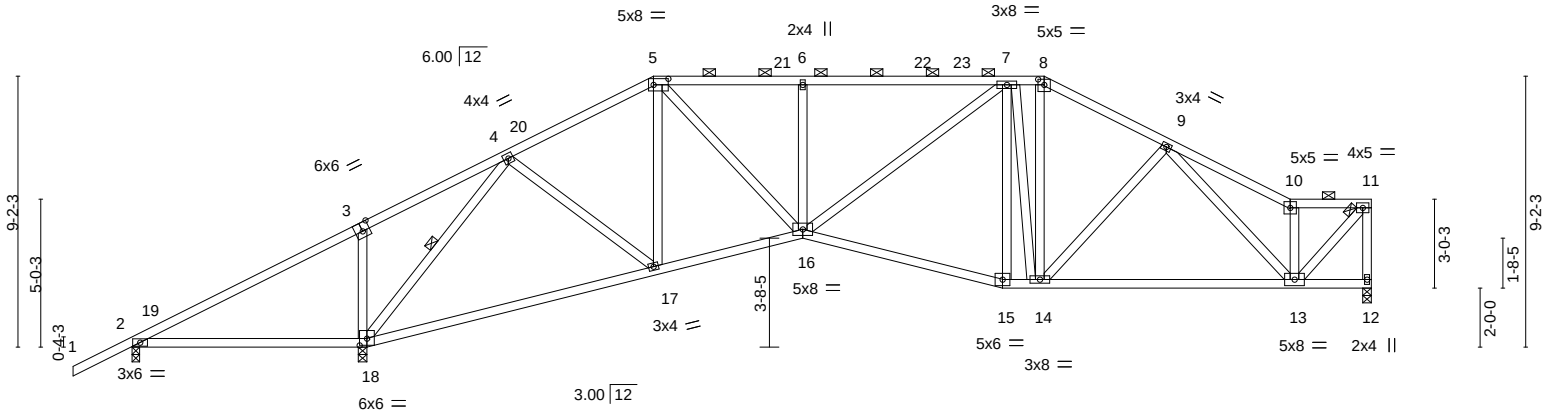
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A16	PIGGYBACK BASE	1	1	T35495868
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:27 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-sfWRIxnpLeSdYtpEZAdgKRHER?krpfgqKKscd3yLan_

-2-0-0	7-11-8	12-9-0	17-8-1	22-8-12	23-7-0	29-6-0	30-10-15	35-0-10	39-3-0	42-0-0
2-0-0	7-11-8	4-9-8	4-11-1	5-0-11	0-10-4	5-11-0	1-4-15	4-1-11	4-2-6	2-9-0

Scale = 1:78.1



7-9-12	7-11-8	17-8-1	22-8-12	29-6-0	30-10-15	39-3-0	42-0-0
7-9-12	0-1-12	9-8-9	5-0-11	6-9-4	1-4-15	8-4-1	2-9-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.26	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.54	17-18	>757	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	16	>999	240	Weight: 259 lb	FT = 20%

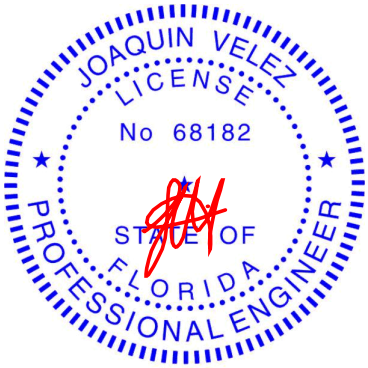
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-7 max.): 5-8, 10-11.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-11-1 oc bracing: 2-18.
WEBS 1 Row at midpt 4-18

REACTIONS. (size) 12=0-3-8, 2=0-3-1, 18=0-3-8
Max Horz 2=179(LC 11)
Max Uplift 12=-54(LC 12), 2=-168(LC 24), 18=-103(LC 12)
Max Grav 12=1256(LC 1), 2=67(LC 23), 18=2184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-217/935, 3-4=-127/894, 4-5=-1328/174, 5-6=-1851/264, 6-7=-1850/264, 7-8=-1332/219, 8-9=-1540/214, 9-10=-1305/166, 10-11=-1086/114, 11-12=-1263/126
BOT CHORD 2-18=-732/105, 17-18=-145/546, 16-17=-146/1156, 15-16=-179/1445, 14-15=-165/1397, 13-14=-185/1398
WEBS 3-18=-435/149, 4-18=-2107/282, 4-17=-8/786, 5-17=-459/114, 5-16=-122/1063, 6-16=-392/126, 7-16=-67/624, 7-15=-318/58, 7-14=-498/134, 8-14=-89/639, 9-13=-405/93, 10-13=-752/120, 11-13=-122/1605

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-8-1, Zone2 17-8-1 to 21-10-15, Zone1 21-10-15 to 30-10-15, Zone2 30-10-15 to 35-0-10, Zone1 35-0-10 to 41-10-4 zone; cantilever left and right exposed ; end vertical 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) 12 except (jt=lb) 2=168, 18=103.
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:

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A17	HALF HIP	1	1	T35495869
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:27 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-sfWRIxnpLeSdYtpEZAdgKRHG8?nppknqKKscd3yLan_

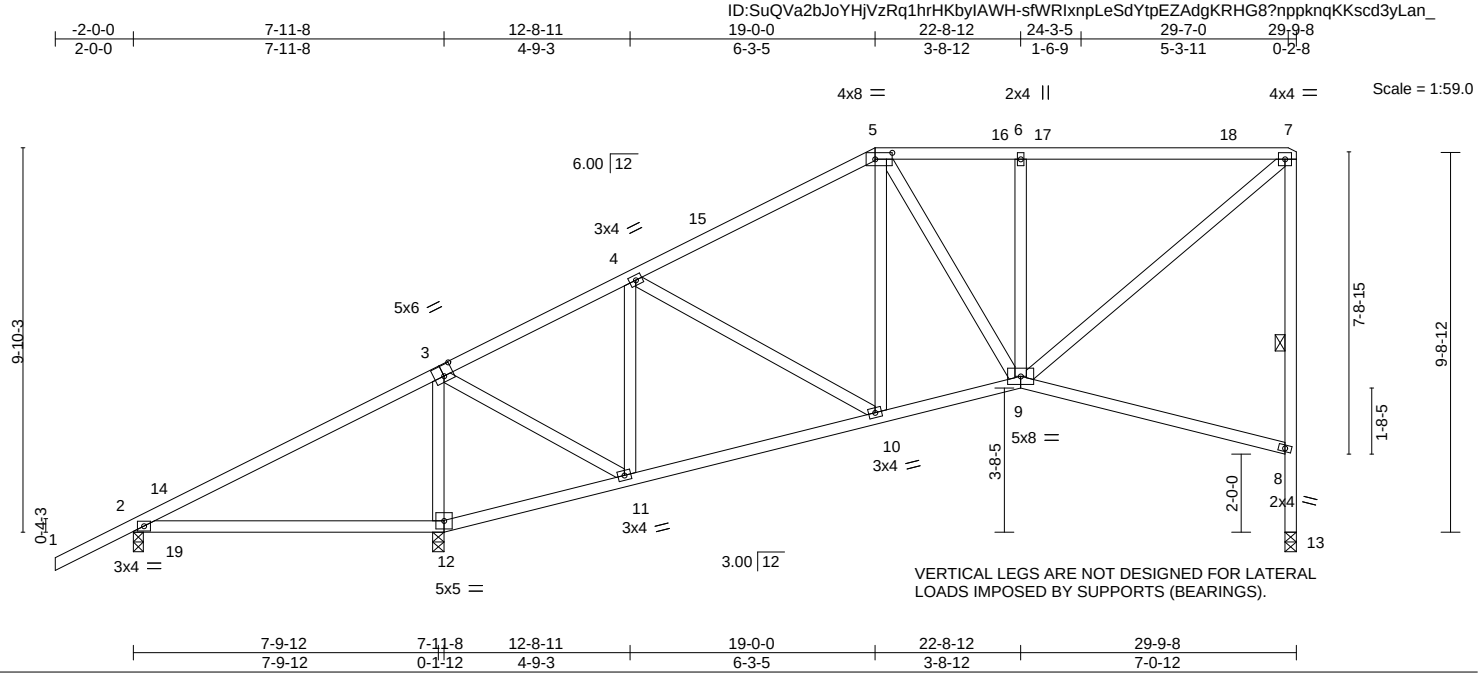


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [5:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.14	2-12	>685	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.29	2-12	>322	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.15	2-12	>647	240	Weight: 182 lb	FT = 20%

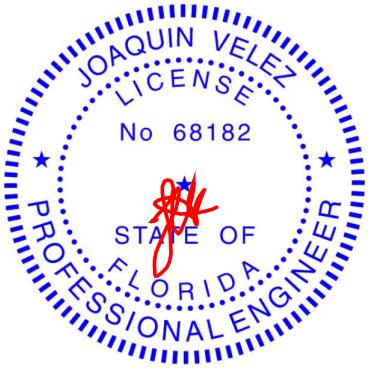
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-13

REACTIONS. (size) 2=0-3-1, 12=0-3-8, 13=0-3-8
Max Horz 2=303(LC 11)
Max Uplift 2=-135(LC 12), 12=-121(LC 12), 13=-63(LC 9)
Max Grav 2=296(LC 1), 12=1384(LC 1), 13=809(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-282/416, 3-4=-599/103, 4-5=-786/106, 5-6=-672/99, 6-7=-672/99, 8-13=-809/102, 7-8=-741/166
BOT CHORD 2-12=-281/60, 11-12=-315/74, 10-11=-245/522, 9-10=-266/649
WEBS 3-12=-1179/254, 3-11=-102/827, 4-11=-486/161, 6-9=-378/117, 7-9=-188/858

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 19-0-0, Zone2 19-0-0 to 23-2-15, Zone1 23-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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
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) Bearing at joint(s) 13 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) 13 except (jt=lb) 2=135, 12=121.



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

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A18	Half Hip	1	1	T35495870
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:28 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-Kr4pVHoS6yaUA1OR7t9vtfqOnP4QYAD_Z_b98VyLamz

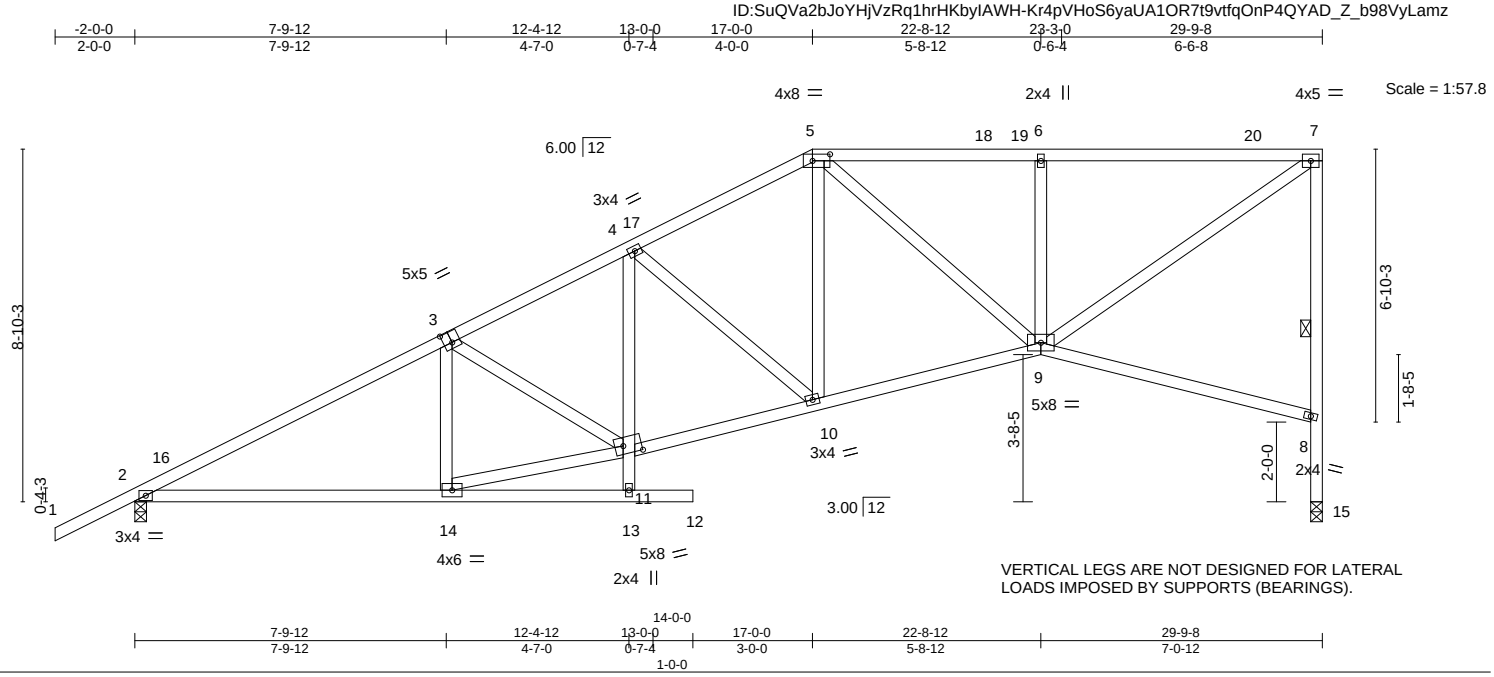


Plate Offsets (X,Y)-- [3:0-2-8,0-3-4], [5:0-5-4,0-2-0], [11:0-5-8,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.12	2-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.29	2-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.16	15	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	12	>999	240	Weight: 186 lb	FT = 20%

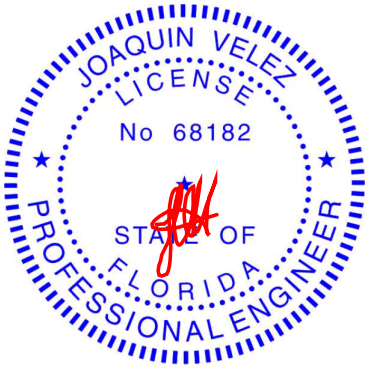
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-11-14 oc bracing.
WEBS 1 Row at midpt 7-15

REACTIONS. (size) 2=0-3-8, 15=0-3-8
Max Horz 2=273(LC 11)
Max Uplift 2=-99(LC 12), 15=-59(LC 9)
Max Grav 2=1331(LC 1), 15=1190(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2117/117, 3-4=-1975/139, 4-5=-1613/130, 5-6=-1360/145, 6-7=-1360/145, 8-15=-1190/123, 7-8=-1122/187
BOT CHORD 2-14=-324/1792, 10-11=-347/1767, 9-10=-321/1453
WEBS 3-14=-281/159, 11-14=-332/1821, 4-10=-409/79, 5-10=0/497, 6-9=-437/127, 7-9=-247/1637, 4-11=0/260

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 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) Bearing at joint(s) 15 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) 2, 15.



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

November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A19	Half Hip	1	1	T35495871
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:28 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-Kr4pVHoS6yaUA1OR7t9vtfqRjP2CY9E_Z_b98VyLamz

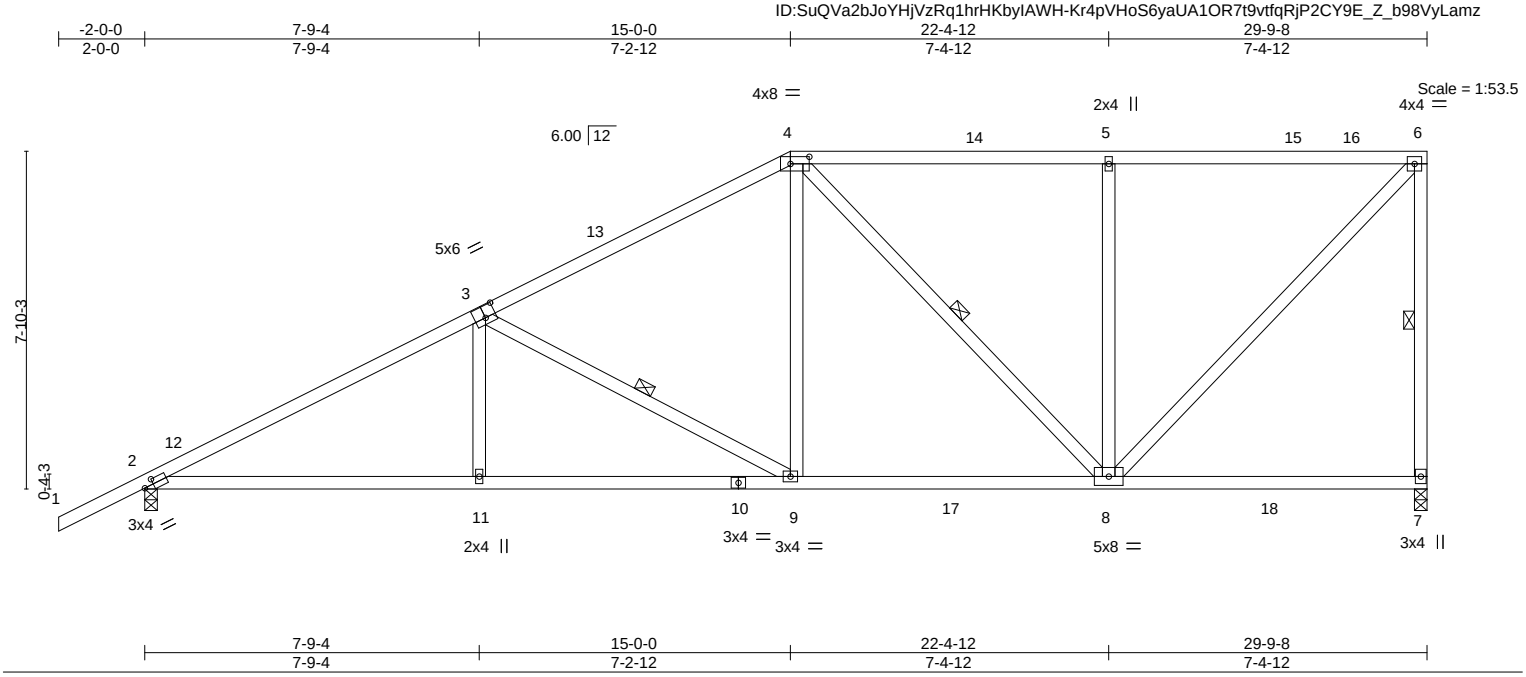


Plate Offsets (X,Y)-- [2:0-2-10,0-1-8], [3:0-3-0,0-3-4], [4:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.14	2-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.28	2-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 174 lb	FT = 20%

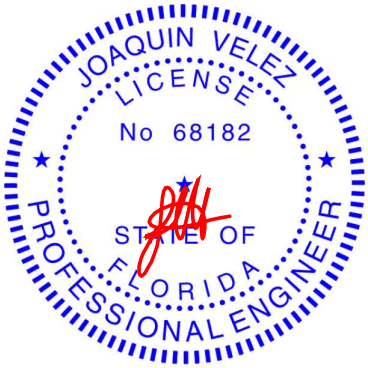
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 3-9, 4-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=240(LC 9)
Max Uplift 7=-65(LC 9), 2=-110(LC 12)
Max Grav 7=1369(LC 17), 2=1456(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2358/144, 3-4=-1585/169, 4-5=-1031/172, 5-6=-1031/172, 6-7=-1220/162
BOT CHORD 2-11=-336/2098, 9-11=-338/2092, 8-9=-241/1393
WEBS 3-11=0/330, 3-9=-810/110, 4-9=0/672, 4-8=-475/90, 5-8=-506/148, 6-8=-149/1482

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 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=110.



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

November 8,2024

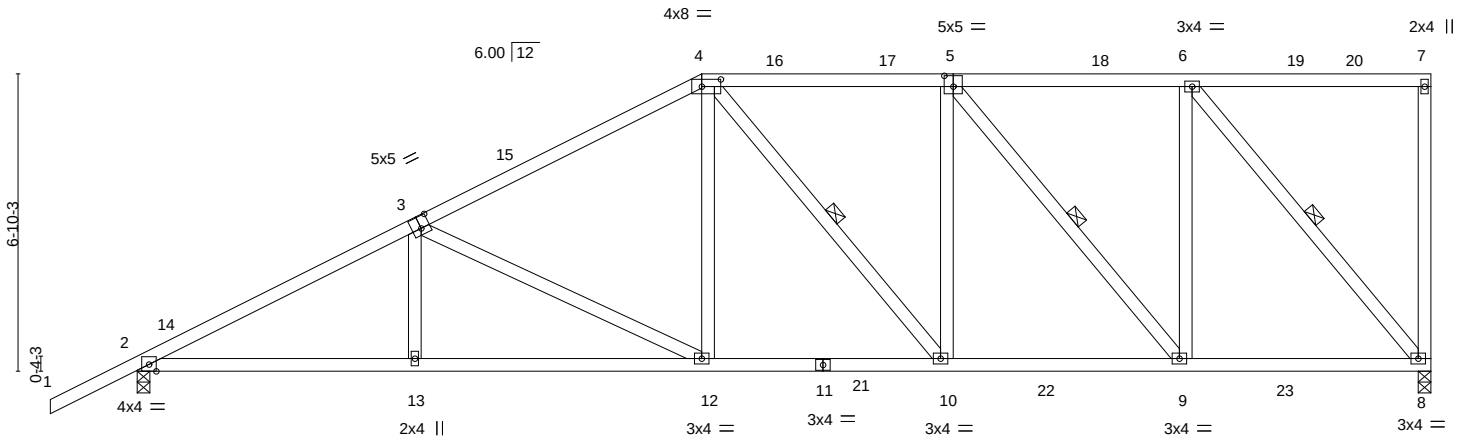
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A20	Half Hip	1	1	T35495872
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:29 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-o2eCjdp4tGiLoBzdhag8PsMeLpR?HZ27oeLjgyyLamy

-2-0-0	6-4-11	13-0-0	18-7-12	24-1-12	29-9-8
2-0-0	6-4-11	6-7-4	5-7-12	5-6-0	5-7-12

Scale = 1:53.1



6-4-11	13-0-0	18-7-12	24-1-12	29-9-8
6-4-11	6-7-4	5-7-12	5-6-0	5-7-12

Plate Offsets (X,Y)-- [3:0-2-8,0-3-4], [4:0-5-4,0-2-0], [5:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.12	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.23	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	12-13	>999	240	Weight: 183 lb	FT = 20%

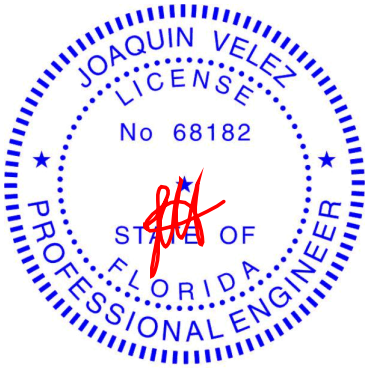
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-10, 5-9, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=210(LC 9)
Max Uplift 8=-58(LC 9), 2=-111(LC 12)
Max Grav 8=1348(LC 17), 2=1461(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2450/139, 3-4=-1773/166, 4-5=-1448/178, 5-6=-972/151
BOT CHORD 2-13=-328/2179, 12-13=-330/2173, 10-12=-243/1564, 9-10=-206/1471, 8-9=-149/982
WEBS 3-13=0/282, 3-12=-692/97, 4-12=0/551, 5-10=0/316, 5-9=-773/90, 6-9=0/842, 6-8=-1487/128

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 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=111.



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

November 8,2024

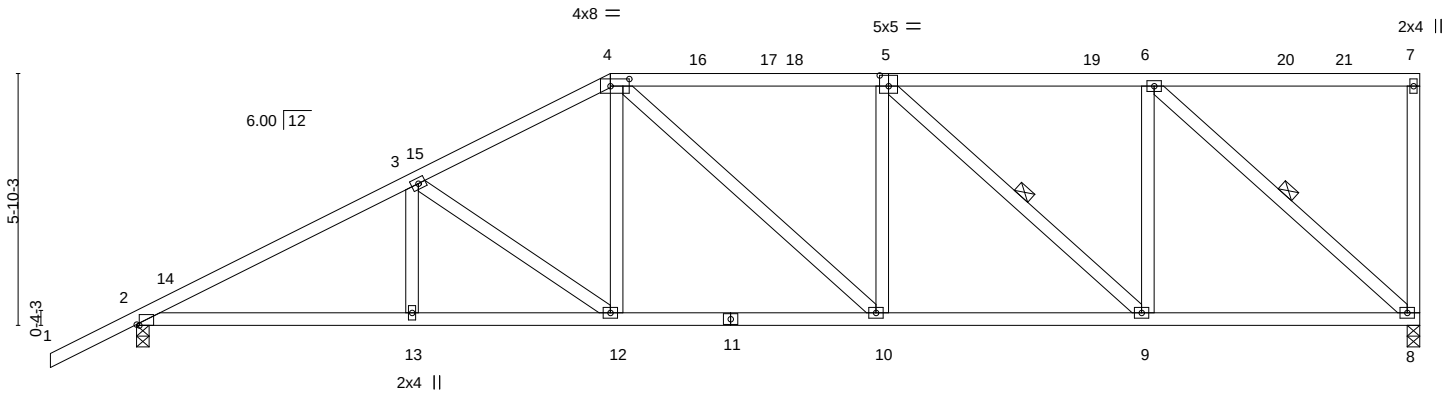
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A21	Half Hip	1	1	T35495873
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:29 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-o2eCjdp4tGiLoBzdhag8PsMe5pTwHcG7oeLjgyyLamy

-2-0-0	6-4-12	11-0-0	17-3-12	23-5-12	29-9-8
2-0-0	6-4-12	4-7-4	6-3-12	6-2-0	6-3-12

Scale = 1:53.5



6-4-12	11-0-0	17-3-12	23-5-12	29-9-8
6-4-12	4-7-4	6-3-12	6-2-0	6-3-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.08	12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.19	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.05	12	>999	240	Weight: 173 lb	FT = 20%

LUMBER-

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

BRACING-

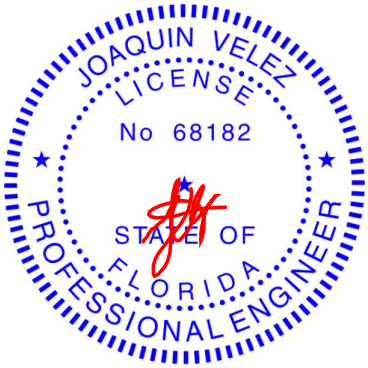
TOP CHORD	Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-9, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=180(LC 9)
Max Uplift 8=-51(LC 9), 2=-112(LC 12)
Max Grav 8=1175(LC 1), 2=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2141/138, 3-4=-1702/168, 4-5=-1558/181, 5-6=-1079/150
BOT CHORD 2-13=-304/1825, 12-13=-304/1825, 10-12=-240/1469, 9-10=-213/1556, 8-9=-154/1079
WEBS 3-12=-443/77, 4-12=0/402, 5-9=-649/81, 6-9=0/593, 6-8=-1430/128

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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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 3x4 MT20 unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=112.



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

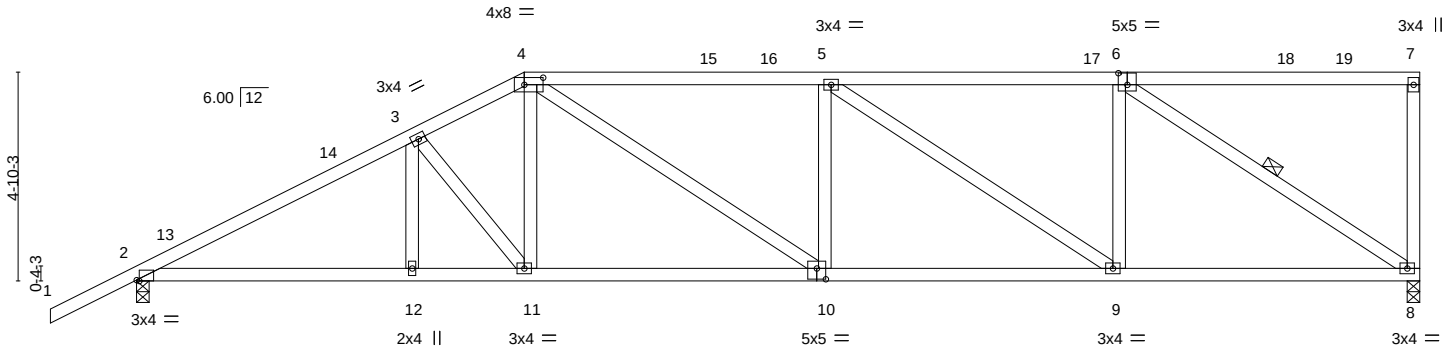
November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A22	Half Hip	1	1	T35495874
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:30 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-GECawzqidZqCPKYpEIBNy4vm_Coq0?4H0l4GDOyLamx

-2-0-0	6-4-12	9-0-0	15-11-12	22-9-12	29-9-8
2-0-0	6-4-12	2-7-3	6-11-12	6-10-0	6-11-12

Scale = 1:53.5



6-4-12	9-0-0	15-11-12	22-9-12	29-9-8
6-4-12	2-7-3	6-11-12	6-10-0	6-11-12

Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-5-4,0-2-0], [6:0-2-8,0-3-4], [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	1.15	TC	0.72	Vert(LL)	-0.10	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.24	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	10	>999	240	Weight: 164 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 2-9-7 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 6-8

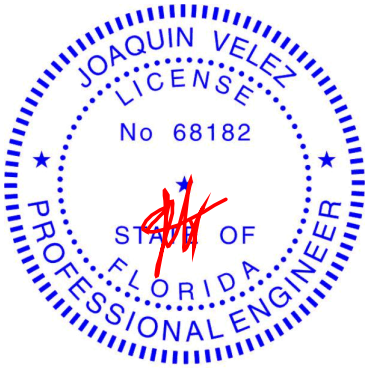
REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=149(LC 9)
Max Uplift 8=-50(LC 12), 2=-113(LC 12)
Max Grav 8=1175(LC 1), 2=1313(LC 1)

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

TOP CHORD	2-3=-2133/137, 3-4=-1844/168, 4-5=-1959/190, 5-6=-1426/154
BOT CHORD	2-12=-274/1817, 11-12=-274/1817, 10-11=-229/1620, 9-10=-222/1959, 8-9=-161/1426
WEBS	3-11=-323/70, 4-11=0/376, 4-10=-36/404, 5-9=-640/72, 6-9=0/559, 6-8=-1681/134

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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-7-12 zone; cantilever left and right exposed ; end vertical 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) 8 except (jt=lb) 2=113.



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

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	A23	Half Hip Girder	1	2	T35495875
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:31 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-kQly8JrKOty31U7?o?icUHR?TcAqlWSQFyqqlqyLamw

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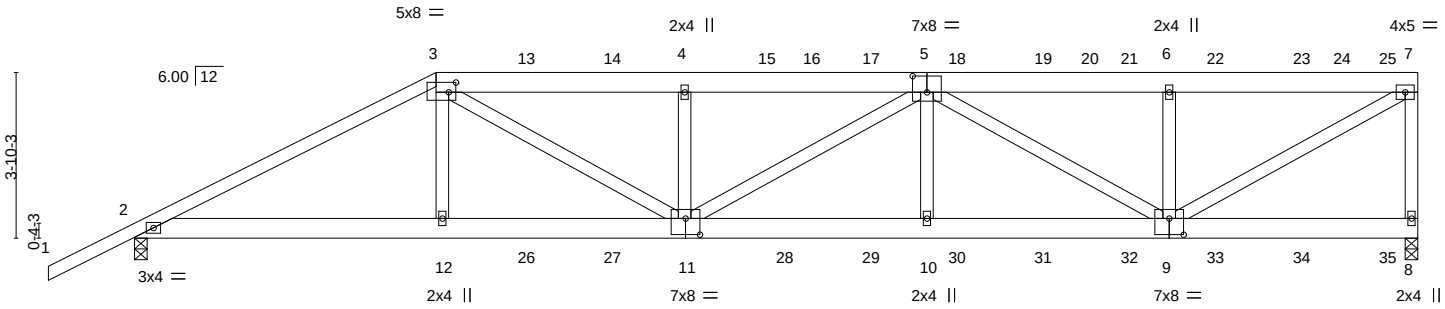


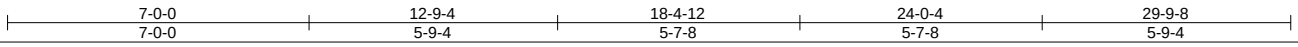


Plate Offsets (X,Y)-- [3:0-2-0,0-2-12], [5:0-4-0,0-4-8], [9:0-4-0,0-4-8], [11:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.11	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.23	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.07	10-11	>999	240	Weight: 392 lb	FT = 20%

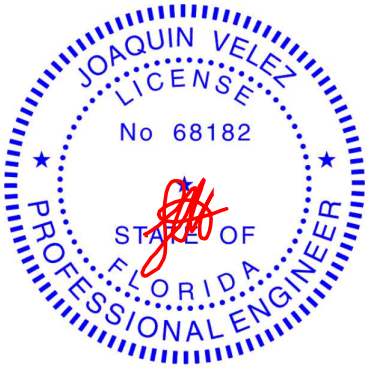
LUMBER-
TOP CHORD 2x6 SP No.2 *Except*
1-3: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=116(LC 26)
Max Uplift 8=-166(LC 8), 2=-151(LC 8)
Max Grav 8=2492(LC 1), 2=2296(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4348/161, 3-4=-5302/324, 4-5=-5295/322, 5-6=-3390/250, 6-7=-3390/250, 7-8=-2352/234
BOT CHORD 2-12=-137/3803, 11-12=-129/3823, 10-11=-304/5091, 9-10=-304/5091
WEBS 3-12=0/685, 3-11=-189/1800, 4-11=-774/237, 5-10=0/474, 5-9=-1985/109, 6-9=-742/250, 7-9=-249/3901

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 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.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=166, 2=151.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Continued on page 2

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

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, 123 lb down and 83 lb up at 11-0-12, 123 lb down and 83 lb up at 13-0-12, 123 lb down and 83 lb up at 15-0-12, 123 lb down and 83 lb up at 17-0-12, 123 lb down and 83 lb up at 19-0-12, 123 lb down and 83 lb up at 21-0-12, 123 lb down and 83 lb up at 23-0-12, 123 lb down and 83 lb up at 25-0-12, and 123 lb down and 83 lb up at 27-0-12, and 136 lb down and 79 lb up at 29-0-12 on top chord, and 315 lb down at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 23-0-12, 96 lb down at 25-0-12, and 96 lb down at 27-0-12, and 104 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

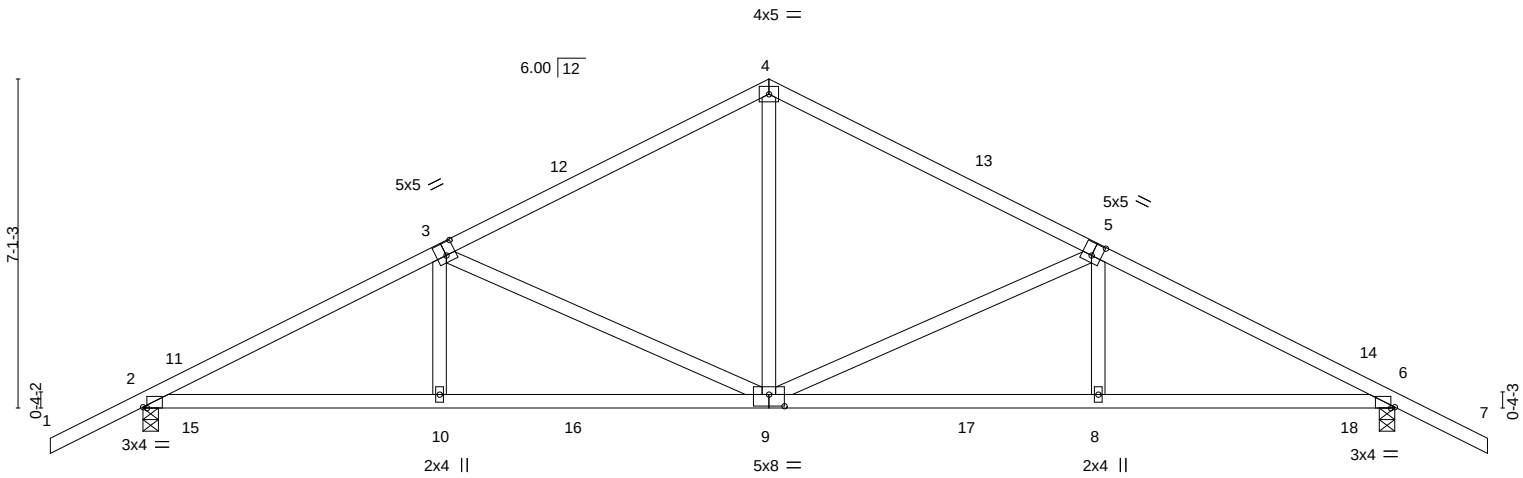
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-7=-60, 2-8=-20
   Concentrated Loads (lb)
   Vert: 3=-123(B) 12=-275(B) 11=-48(B) 4=-123(B) 13=-123(B) 14=-123(B) 16=-123(B) 17=-123(B) 18=-123(B) 19=-123(B) 21=-123(B) 22=-123(B) 23=-123(B) 25=-136(B) 26=-48(B) 27=-48(B) 28=-48(B) 29=-48(B) 30=-48(B) 31=-48(B) 32=-48(B) 33=-48(B) 34=-48(B) 35=-52(B)

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	B01	Common	3	1	T35495876
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:31 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-kQly8JrKOty31U7?o?icUHRzUc9qlTQQFyqqlqyLamw

-2-0-0	6-4-12	13-6-0	20-7-4	27-0-0	29-0-0
2-0-0	6-4-12	7-1-4	7-1-4	6-4-12	2-0-0

Scale = 1:49.7



6-4-12	13-6-0	20-7-4	27-0-0
6-4-12	7-1-4	7-1-4	6-4-12

Plate Offsets (X,Y)-- [2:0-1-0,Edge], [3:0-2-8,0-3-4], [5:0-2-8,0-3-4], [6:0-1-0,Edge], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.08	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.19	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.07	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.11	8-9	>999	240	Weight: 133 lb	FT = 20%

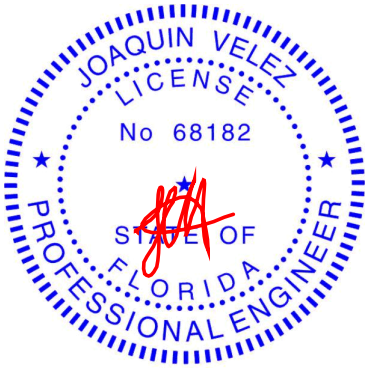
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-7-3 oc bracing.

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=-131(LC 10)
Max Uplift 2=-337(LC 12), 6=-337(LC 12)
Max Grav 2=1197(LC 1), 6=1197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1908/600, 3-4=-1287/457, 4-5=-1287/457, 5-6=-1908/600
BOT CHORD 2-10=-449/1624, 9-10=-448/1621, 8-9=-466/1620, 6-8=-467/1623
WEBS 4-9=-253/681, 5-9=-636/260, 5-8=-50/283, 3-9=-637/260, 3-10=-50/283

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=27ft; 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 13-6-0, Zone2 13-6-0 to 17-8-15, Zone1 17-8-15 to 29-0-0 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 6=337.



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

November 8,2024

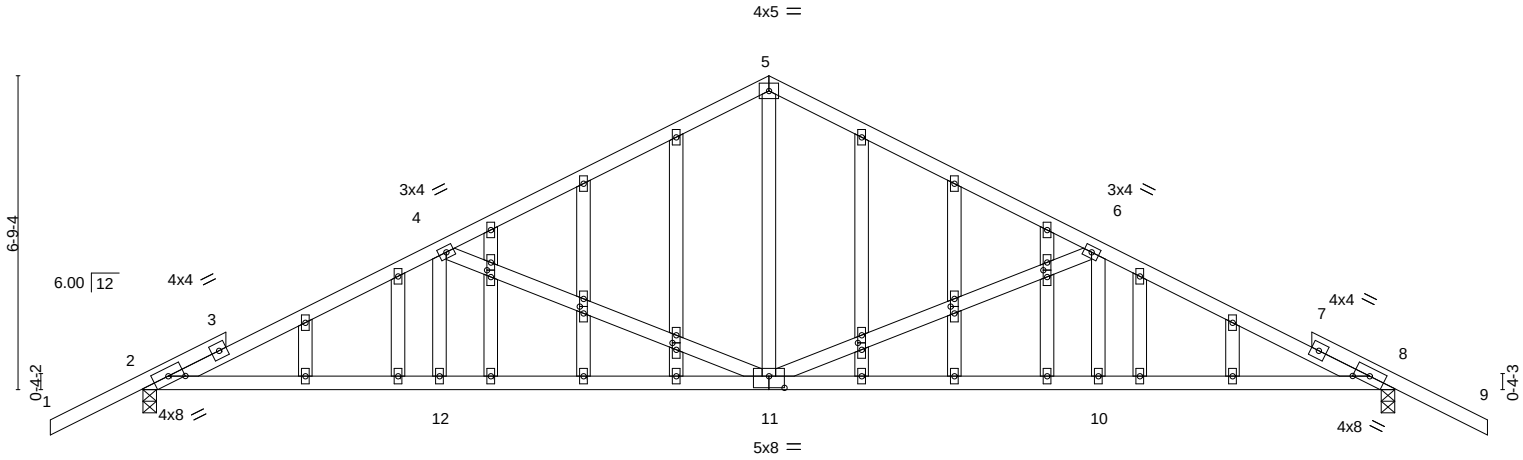
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	B01X	GABLE	1	1	T35495877
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:32 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-CcJKLfry9B4wfeiCMjDr1V_9b0TxUugZUcZNHHyLamv

-2-0-0 2-0-0 | 1-9-7 1-11-1 1-9-7 0-1-9 | 6-4-12 4-5-11 | 13-6-0 7-1-4 | 20-7-5 7-1-4 | 25-1-0 4-5-11 | 25-2-9 27-0-0 0-1-9 1-9-7 | 29-0-0 2-0-0

Scale = 1:49.7



6-4-12 6-4-12 | 13-6-0 7-1-4 | 20-7-5 7-1-4 | 27-0-0 6-4-12

Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-4-0,0-1-15], [11:0-4-0,0-3-0], [13:0-1-12,0-1-0], [16:0-1-12,0-1-0], [19:0-1-12,0-1-0], [28:0-1-12,0-1-0] , [28:0-0-0,0-0-0], [31:0-1-12,0-1-0], [31:0-0-0,0-0-0], [34:0-1-12,0-1-0], [34:0-0-0,0-0-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.10	11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.22	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.07	11	>999	240	Weight: 181 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	2-5,5-8: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

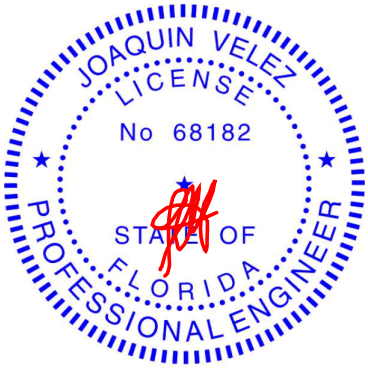
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-9-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-10-2 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=-125(LC 10)
Max Uplift 2=-107(LC 12), 8=-107(LC 12)
Max Grav 2=1197(LC 1), 8=1197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2085/494, 4-5=-1355/376, 5-6=-1355/376, 6-8=-2085/494
BOT CHORD 2-12=-341/1841, 11-12=-341/1841, 10-11=-353/1840, 8-10=-353/1840
WEBS 4-12=0/289, 4-11=-783/277, 5-11=-119/740, 6-11=-782/276, 6-10=0/289

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=27ft; 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 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=107, 8=107.

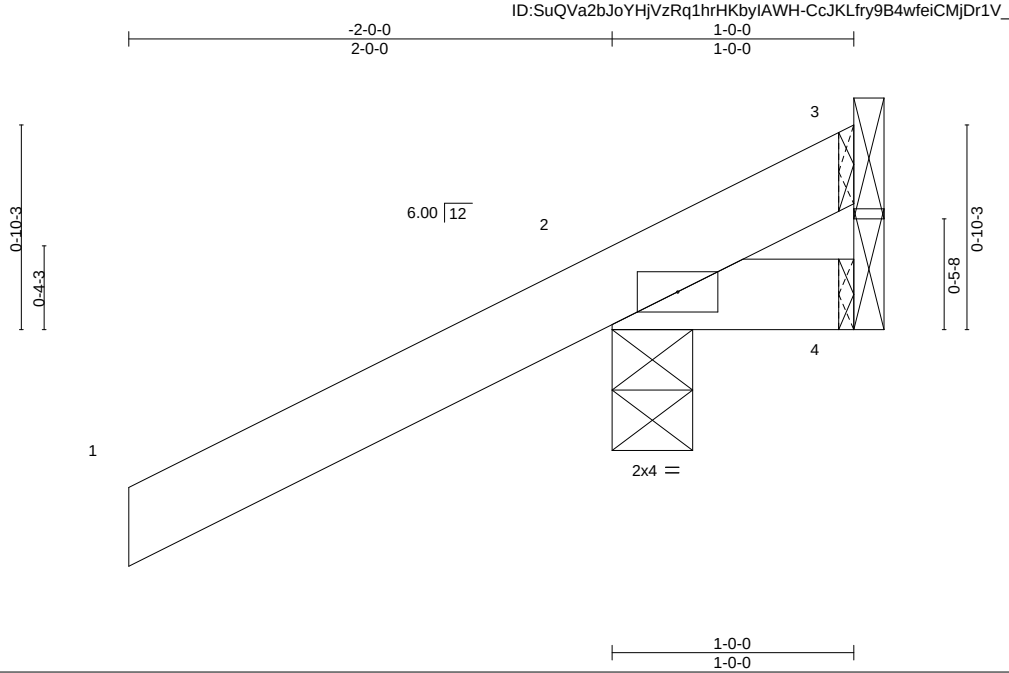


Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 8,2024

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	C1	Corner Jack	12	1	T35495878
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:32 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-CcJKLfry9B4wfeiCMjDr1V_D70dEU4AZUcZNHHyLamv



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	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%

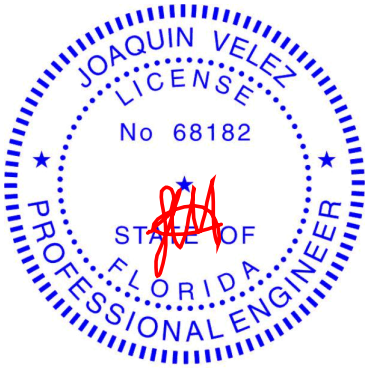
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=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-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ; end vertical 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) 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:

November 8,2024

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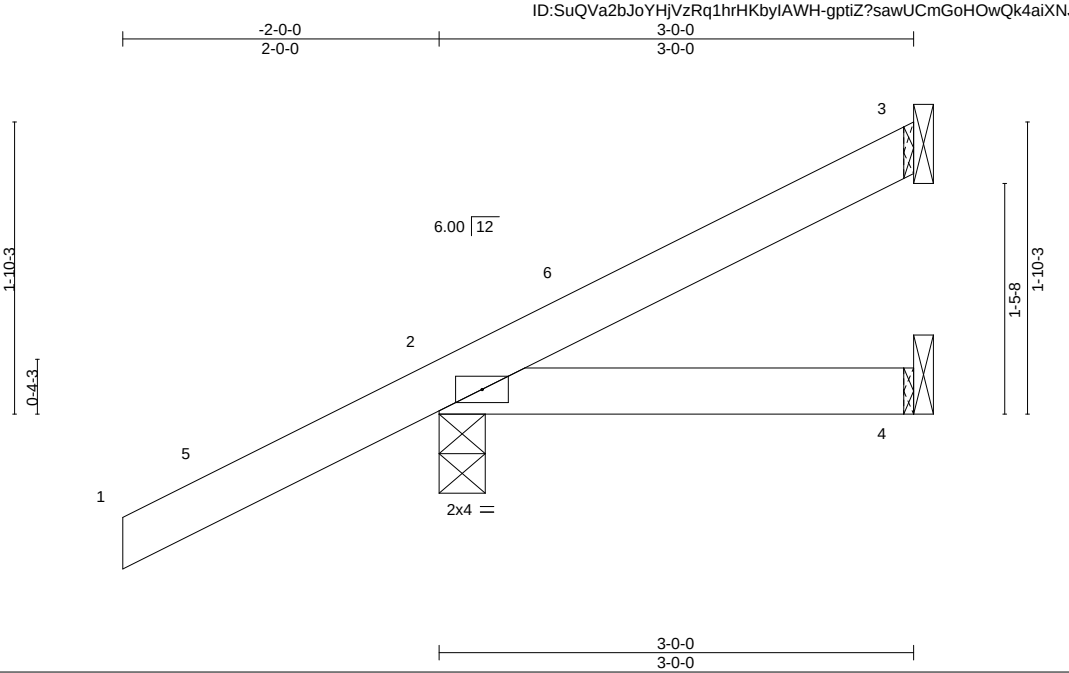
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	C3	Corner Jack	10	1	T35495879
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:33 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gptiZ?sawUCmGoHOwQk4aiXNJQyEDXQjjGJwqjyLamu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

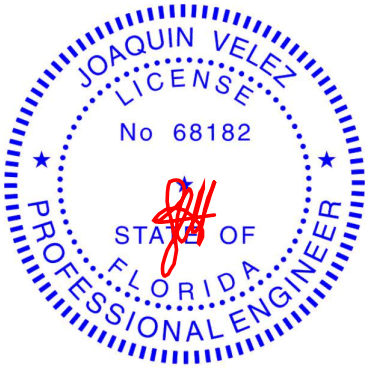
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=0-3-8, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=37(LC 17), 2=290(LC 1), 4=56(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 ; end vertical 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.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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November 8,2024

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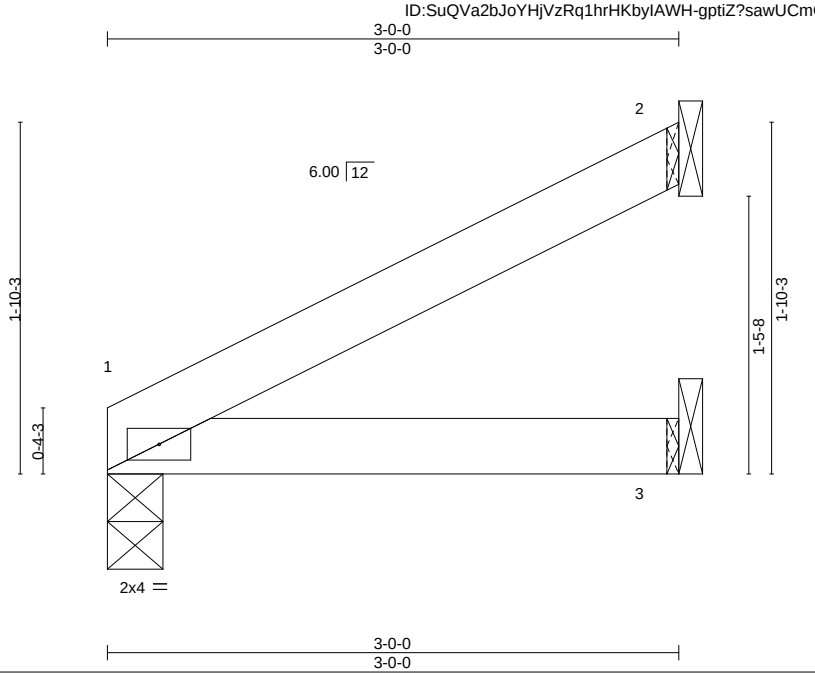
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	C3A	Corner Jack	2	1	T35495880
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:33 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gptiZ?sawUCmGoHOwQk4aiXQFQyEDXQjjGJwqjyLamu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	-0.00	1-3	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	1-3	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	1	****	240	Weight: 10 lb	FT = 20%

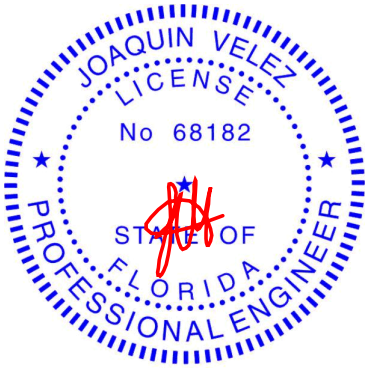
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=36(LC 12)
Max Uplift 2=-31(LC 12)
Max Grav 1=112(LC 1), 2=84(LC 1), 3=56(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 zone; cantilever left and right exposed ; end vertical 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) 2.



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

November 8,2024

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Chesterfield, MO 63017
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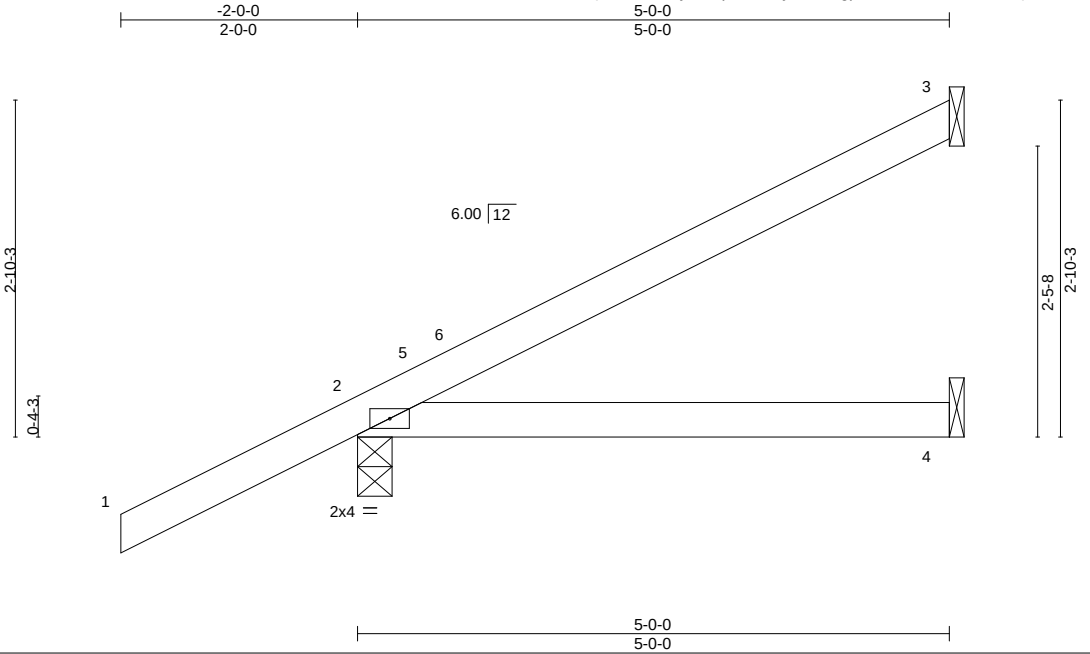
Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	C5	Jack-Open	9	1	T35495881
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:33 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-gptiZ?sawUCmGoHOwQk4aiXNKQvBDXQjjGJwqjyLamu



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	2-4	>909	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: 19 lb	FT = 20%

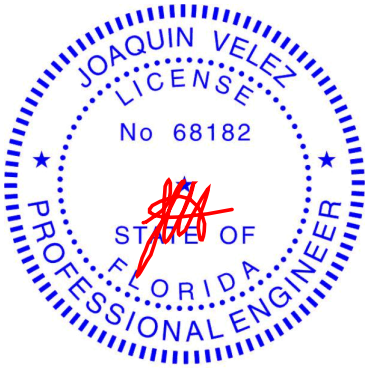
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-36(LC 12), 2=-70(LC 12)
Max Grav 3=115(LC 1), 2=349(LC 1), 4=96(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 4-11-4 zone; cantilever left and right exposed ; end vertical 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.



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

November 8,2024

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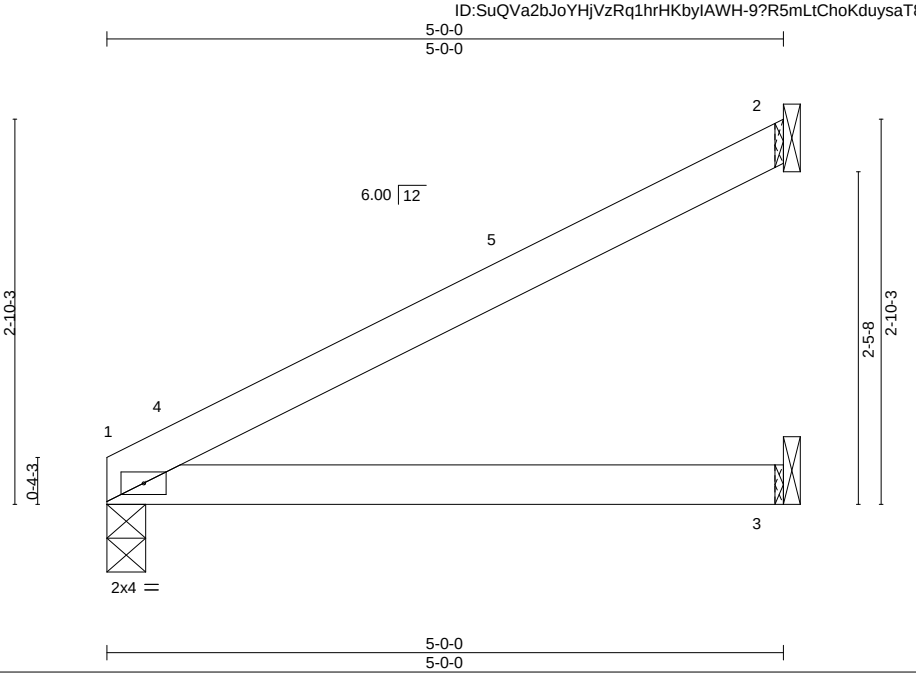
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	C5A	Corner Jack	1	1	T35495882
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:34 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-9?R5mLtChoKduysaT8FJ6w3W7qFPy_gsxw2UM9yLamt



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.03	1-3	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.06	1-3	>908	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	1	****	240	Weight: 16 lb	FT = 20%

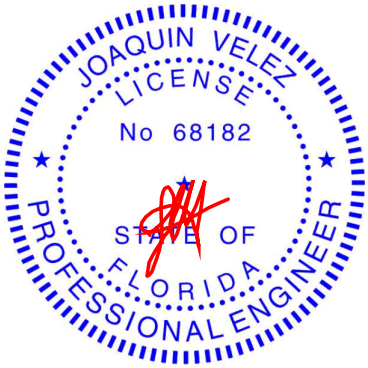
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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) 1=0-3-7, 2=Mechanical, 3=Mechanical
Max Horz 1=60(LC 12)
Max Uplift 2=-53(LC 12)
Max Grav 1=192(LC 1), 2=144(LC 1), 3=96(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 0-1-12 to 3-1-12, Zone1 3-1-12 to 4-11-4 zone; cantilever left and right exposed ; end vertical 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) 2.



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

November 8,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	D01	Common Girder	1	2	T35495883
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:34 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-9?R5mLtChoKduysaT8FJ6w3Vaq9Oyrzsxw2UM9yLamt

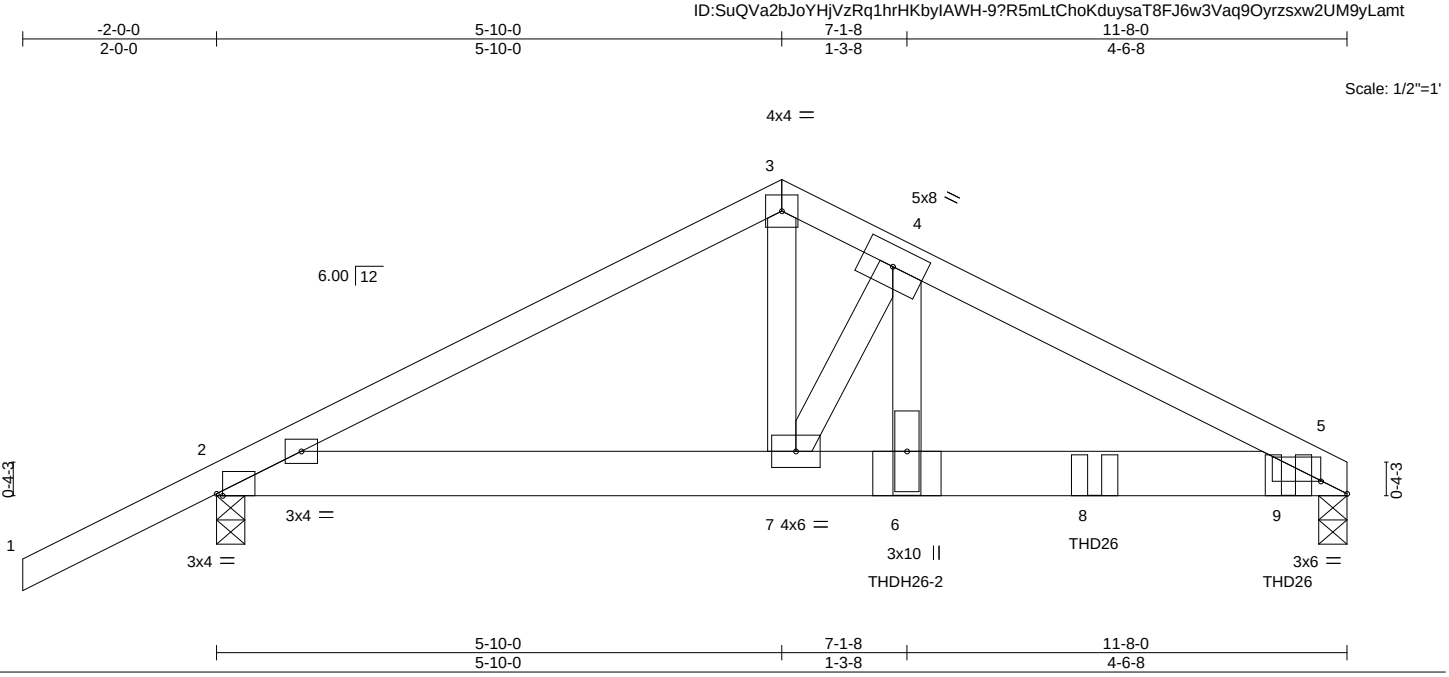


Plate Offsets (X,Y)-- [2:0-0-12,Edge], [5:0-3-4,0-1-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.07	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.13	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.04	5-6	>999	240	Weight: 120 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.2

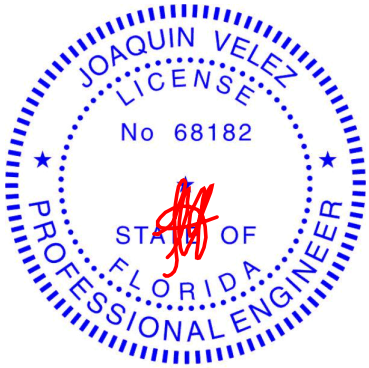
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=61(LC 26)
Max Uplift 5=-313(LC 8), 2=-209(LC 8)
Max Grav 5=5438(LC 1), 2=2354(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4484/281, 3-4=-4381/299, 4-5=-7037/454
BOT CHORD 2-7=-203/3928, 6-7=-372/6243, 5-6=-372/6243
WEBS 3-7=-211/3714, 4-7=-4658/336, 4-6=-319/5068

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=313, 2=209.
9) Use MiTek THDH26-2 (With 22-16d nails into Girder & 8-16d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
10) Use MiTek THD26 (With 18-16d nails into Girder & 12-10d x 1-1/2 nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard



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Continued on page 2

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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-5=-60, 2-5=-20
   Concentrated Loads (lb)
   Vert: 6=-3459(B) 8=-1645(B) 9=-1650(B)

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	D02	Common	1	1	T35495884
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:35 2024 Page 1
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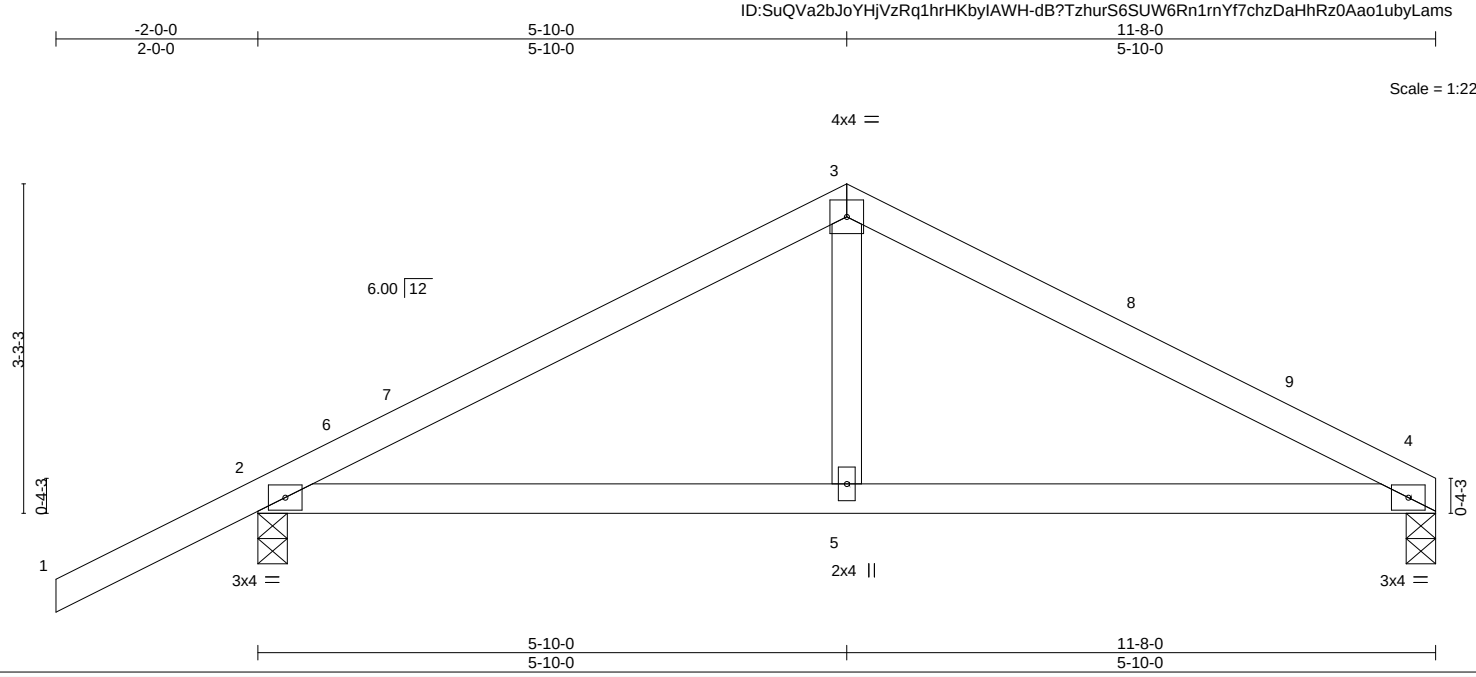


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	4-5	>999	240	Weight: 44 lb	FT = 20%

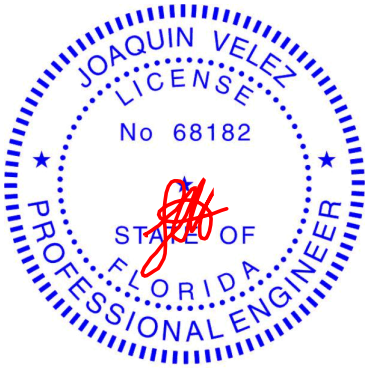
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 4=0-3-8, 2=0-3-8
Max Horz 2=61(LC 11)
Max Uplift 4=-13(LC 12), 2=-87(LC 12)
Max Grav 4=443(LC 1), 2=596(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-622/154, 3-4=-614/161
BOT CHORD 2-5=-62/480, 4-5=-62/480
WEBS 3-5=0/274

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 5-10-0, Zone2 5-10-0 to 10-0-15, Zone1 10-0-15 to 11-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

November 8,2024

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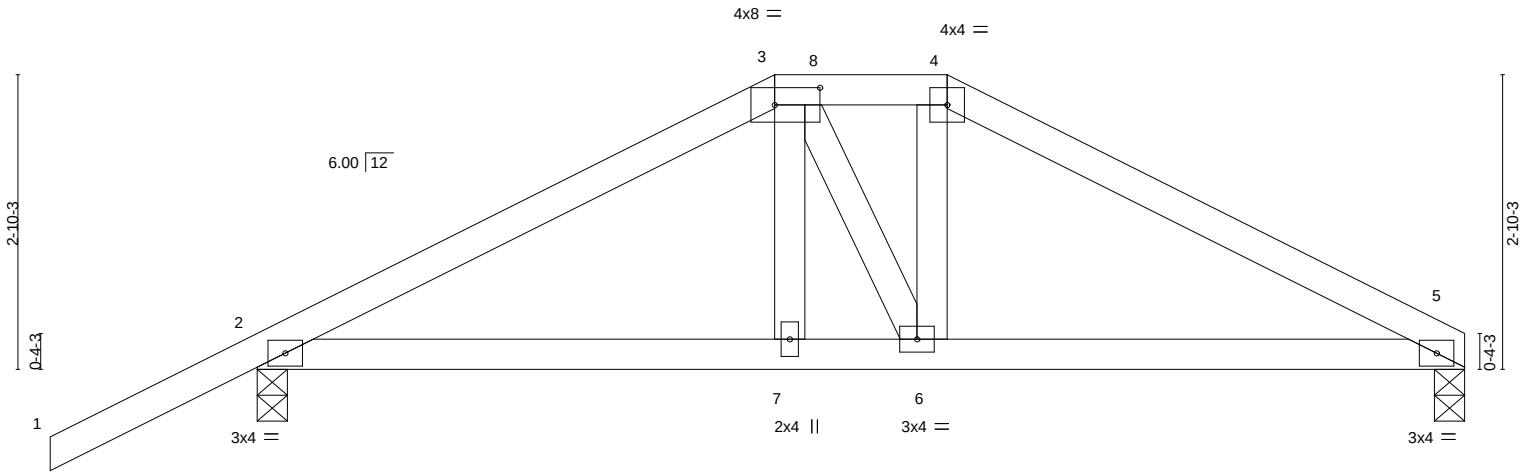
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	D03	Hip Girder	1	1	T35495885
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:35 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-dB?TzhurS6SUW6Rn1rnYf7ci_DZzhR20Aao1ubyLams

-2-0-0 2-0-0 | 5-0-0 5-0-0 | 6-8-0 1-8-0 | 11-8-0 5-0-0

Scale = 1:22.3



5-0-0 5-0-0 | 6-8-0 1-8-0 | 11-8-0 5-0-0

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.03	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.06	5-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.01	5-6	>999	240	Weight: 51 lb	FT = 20%

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

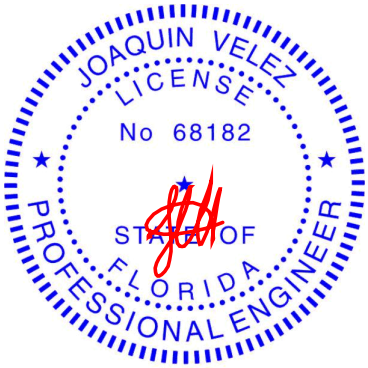
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-1-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=54(LC 26)
Max Uplift 5=-44(LC 8), 2=-117(LC 8)
Max Grav 5=618(LC 1), 2=765(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1011/78, 3-4=-882/98, 4-5=-1029/89
BOT CHORD 2-7=-36/857, 6-7=-34/869, 5-6=-40/866

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); cantilever left and right exposed ; end vertical left and right exposed; 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) 5 except (jt=lb) 2=117.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 56 lb up at 5-0-0, and 144 lb down and 116 lb up at 6-8-0 on top chord, and 175 lb down and 22 lb up at 5-0-0, and 175 lb down and 22 lb up at 6-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-55(F) 4=-97(F) 7=-96(F) 6=-96(F)



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

November 8,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	E7	Jack-Open	34	1	T35495886
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:36 2024 Page 1
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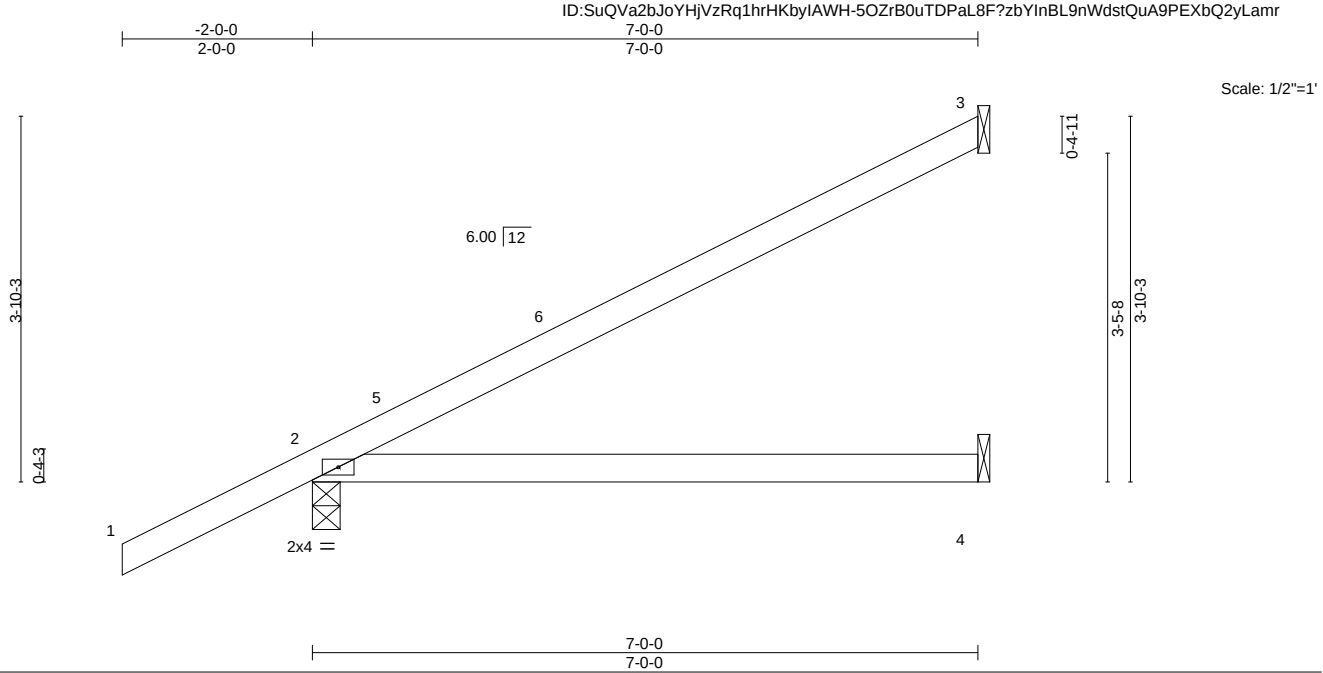


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.13	2-4	>639	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.26	2-4	>319	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 26 lb	FT = 20%

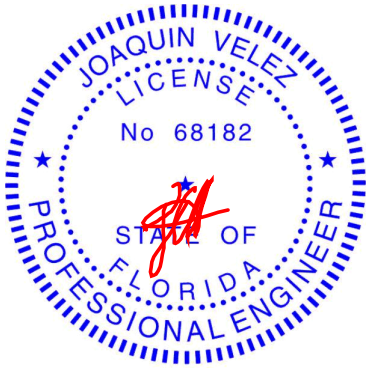
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=119(LC 12)
Max Uplift 3=-62(LC 12), 2=-63(LC 12)
Max Grav 3=183(LC 1), 2=421(LC 1), 4=136(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 ; end vertical 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.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
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November 8,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G01	Half Hip	1	1	T35495887
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:36 2024 Page 1
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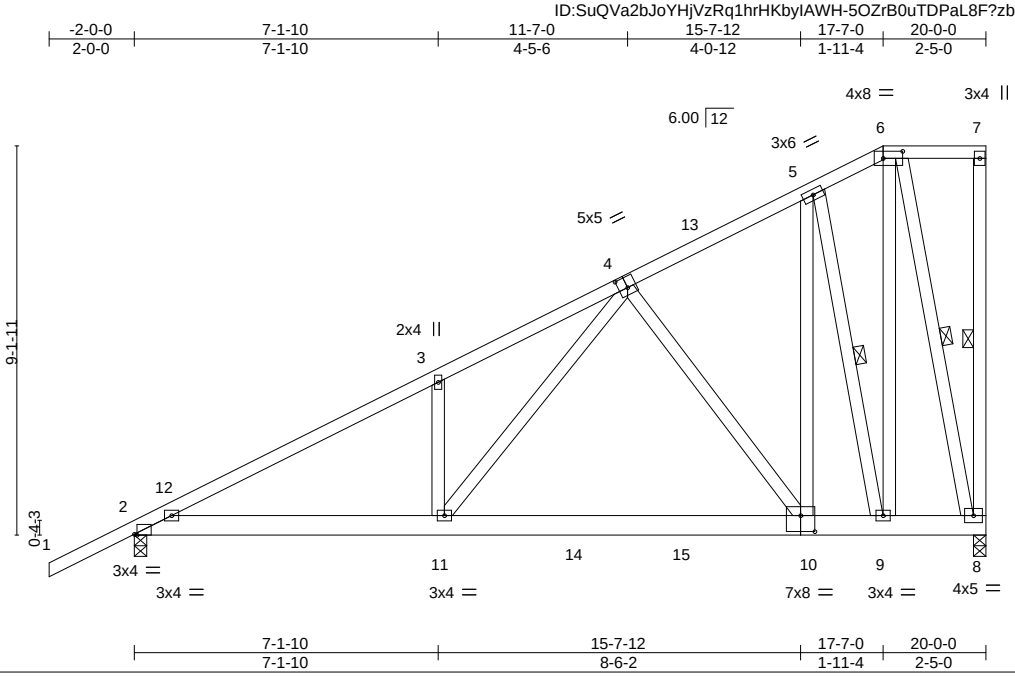


Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-3-0], [6:0-5-8,0-2-0], [10:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.08	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.24	10-11	>987	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03	10-11	>999	240	Weight: 169 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

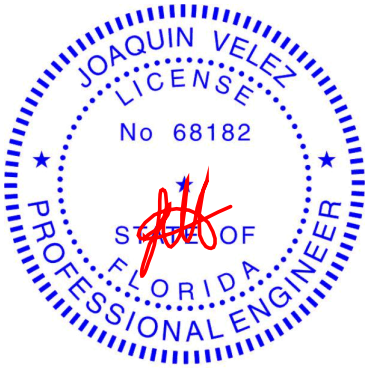
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-8, 5-9, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=277(LC 9)
Max Grav 8=1121(LC 17), 2=1158(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1825/0, 3-4=-1817/0, 4-5=-674/0, 5-6=-356/109
BOT CHORD 2-11=0/1640, 10-11=-10/982, 9-10=-11/551, 8-9=-70/285
WEBS 3-11=-346/143, 4-11=0/1082, 4-10=-701/3, 5-10=0/1191, 5-9=-1257/0, 6-9=0/1013, 6-8=-1036/0

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 17-7-0, Zone3 17-7-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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) 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-7=-60, 2-11=-20, 10-11=-60, 8-10=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 2-11=-40, 10-11=-80, 8-10=-40



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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: November 8,2024

Continued on page 2

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LOAD CASE(S) Standard

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=37, 2-12=21, 6-12=16, 6-7=21, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-46, 2-12=-30, 6-12=-25, 7-8=31

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=16, 6-13=21, 6-7=21, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-20, 2-13=-25, 6-13=-30, 7-8=-19

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=-7, 2-6=-32, 6-7=-32, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-6=12, 7-8=21

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, 2-6=-32, 6-7=-32, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=8, 2-6=12, 7-8=-28

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-6=3, 6-7=8, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=15

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-7=18, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-13, 2-6=-17, 7-8=-13

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-6=-28, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=4, 2-6=8, 7-8=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-12, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-13, 2-6=-8, 7-8=-22

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, 2-6=15, 6-7=15, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-37, 2-6=-24, 7-8=20

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, 2-6=3, 6-7=3, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-24, 2-6=-11, 7-8=20

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, 2-6=-21, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=10

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, 2-6=-21, 6-7=-21, 2-11=-20, 10-11=-60, 8-10=-20
Horz: 1-2=-4, 2-6=1, 7-8=10

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-20, 2-11=-40, 11-14=-80, 14-15=-100, 10-15=-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, 2-6=-56, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=3, 2-6=6, 7-8=5

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, 2-6=-44, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-10, 2-6=-6, 7-8=-16

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, 2-6=-51, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8

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, 2-6=-51, 6-7=-51, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35
Horz: 1-2=-3, 2-6=1, 7-8=8

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-6=-25, 6-7=-25, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-2=-16, 2-6=16, 7-8=16

Continued on page 3

LOAD CASE(S) Standard

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-6=8, 6-7=8, 2-11=-12, 10-11=-52, 8-10=-12
Horz: 1-6=-16, 7-8=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-60, 6-7=-60, 2-11=-20, 10-11=-60, 8-10=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-50, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-6=-20, 6-7=-50, 2-11=-35, 11-14=-75, 14-15=-90, 10-15=-75, 8-10=-35

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G02	Half Hip	1	1	T35495888
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:36 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-5OZrB0uTDPaL8F?zbYInBL9pgdrBQmJ9PEXbQ2yLamr

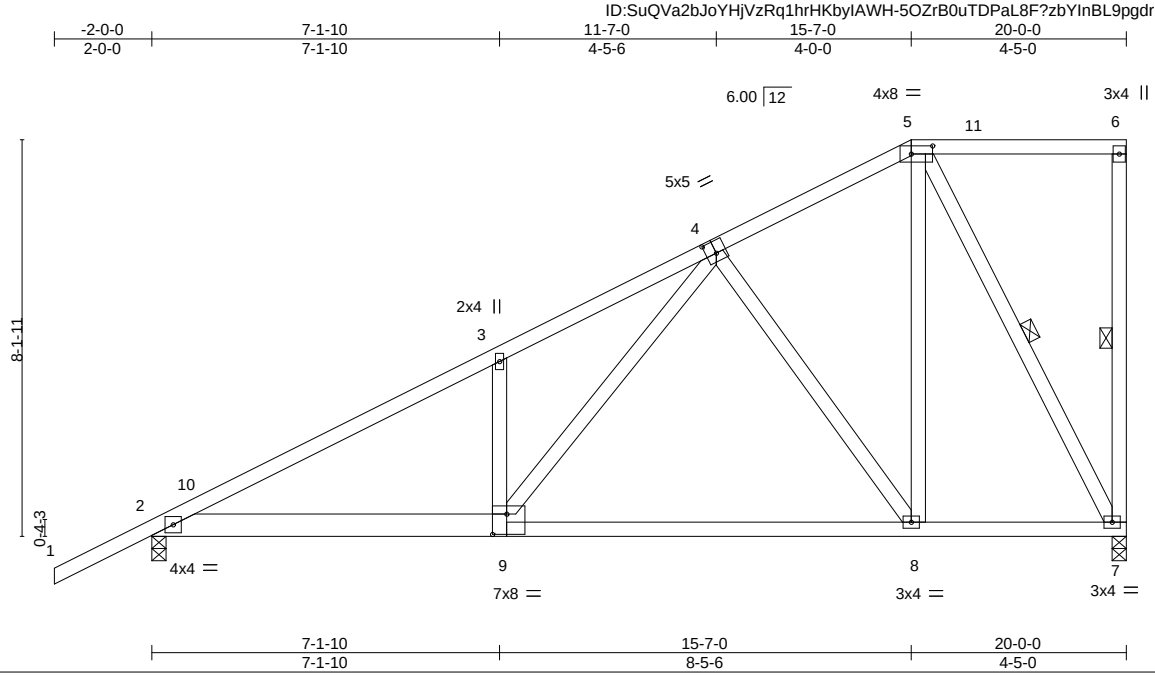


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-5-4,0-2-0], [9:0-3-8,0-5-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.08	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.37	8-9	>640	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	9	>999	240	Weight: 132 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-9: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

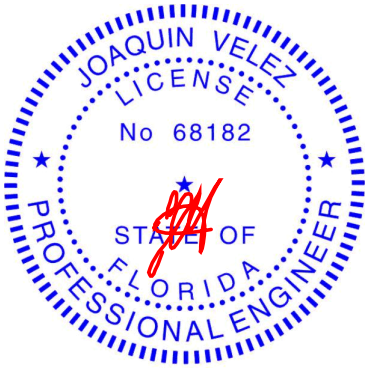
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=249(LC 11)
Max Grav 7=976(LC 1), 2=1067(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1673/0, 3-4=-1624/0, 4-5=-576/0
BOT CHORD 2-9=0/1405, 8-9=-12/842, 7-8=-8/486
WEBS 3-9=-342/142, 4-9=0/927, 4-8=-637/0, 5-8=0/859, 5-7=-1000/0

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 15-7-0, Zone3 15-7-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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) 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 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-6=-60, 2-9=-20, 8-9=-60, 7-8=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-6=-50, 2-9=-20, 8-9=-60, 7-8=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-9=-40, 8-9=-80, 7-8=-40



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Continued on page 2

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
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LOAD CASE(S) Standard

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=37, 2-10=21, 5-10=16, 5-6=21, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-46, 2-10=-30, 5-10=-25, 6-7=31
Drag: 5-6=-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, 2-4=16, 4-5=21, 5-11=16, 6-11=21, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-20, 2-4=-25, 4-5=-30, 6-7=-19
Drag: 5-6=-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=-7, 2-5=-32, 5-6=-32, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-13, 2-5=12, 6-7=22
Drag: 5-6=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, 5-6=-32, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=8, 2-5=12, 6-7=-28
Drag: 5-6=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, 5-6=8, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=15
Drag: 5-6=-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, 5-6=18, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-13, 2-5=-17, 6-7=-13
Drag: 5-6=-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, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=4, 2-5=8, 6-7=6

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, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-13, 2-5=-8, 6-7=-22

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, 5-6=15, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-37, 2-5=-24, 6-7=20
Drag: 5-6=-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, 5-6=3, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-24, 2-5=-11, 6-7=20
Drag: 5-6=-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, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=10

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, 5-6=-21, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-4, 2-5=1, 6-7=10

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-5=-20, 5-6=-20, 2-9=-20, 8-9=-60, 7-8=-20

17) Dead + 0.75 Roof Live (bal.) + 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, 5-6=-51, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=3, 2-5=6, 6-7=5

18) Dead + 0.75 Roof Live (bal.) + 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, 5-6=-51, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-10, 2-5=-6, 6-7=-16

19) Dead + 0.75 Roof Live (bal.) + 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, 5-6=-51, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-3, 2-5=1, 6-7=8

20) Dead + 0.75 Roof Live (bal.) + 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, 5-6=-51, 2-9=-20, 8-9=-60, 7-8=-20
Horz: 1-2=-3, 2-5=1, 6-7=8

Continued on page 3

LOAD CASE(S) Standard

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, 5-6=-25, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-2=-16, 2-5=16, 6-7=16
Drag: 5-6=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, 5-6=8, 2-9=-12, 8-9=-52, 7-8=-12
Horz: 1-5=-16, 6-7=16
Drag: 5-6=-0

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G03	Half Hip	1	1	T35495889
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:37 2024 Page 1
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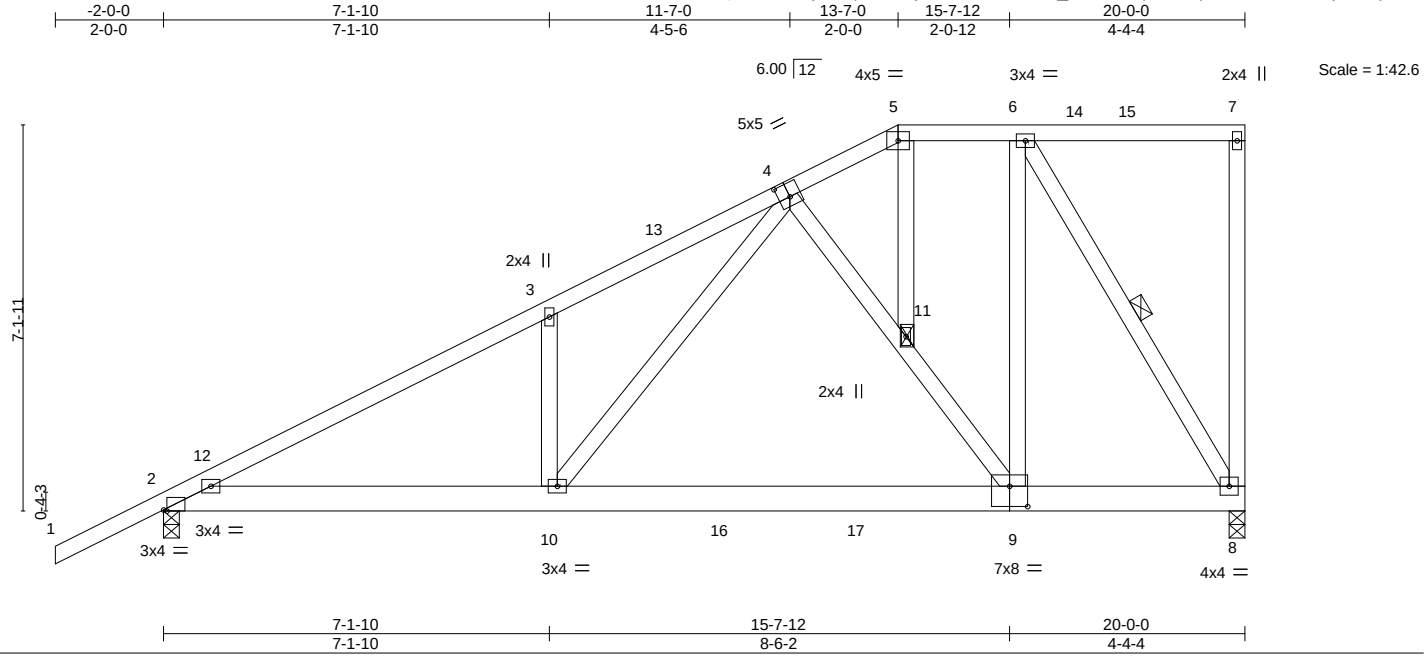


Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-3-0], [9:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.07	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.23	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	10	>999	240	Weight: 143 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

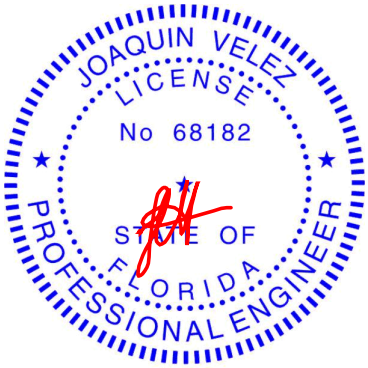
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-8
JOINTS 1 Brace at Jt(s): 11

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=217(LC 9)
Max Grav 8=1095(LC 17), 2=1162(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1840/0, 3-4=-1845/0, 4-5=-677/0, 5-6=-608/0
BOT CHORD 2-10=0/1633, 9-10=-9/949, 8-9=0/625
WEBS 3-10=-374/142, 4-10=0/1124, 4-11=-579/31, 9-11=-505/61, 6-9=0/894, 6-8=-1174/0

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 13-7-0, Zone2 13-7-0 to 17-9-15, Zone1 17-9-15 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) 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 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-7=-60, 2-10=-20, 9-10=-60, 8-9=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-50, 5-7=-50, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-20, 2-10=-40, 9-10=-80, 8-9=-40



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Continued on page 2

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

LOAD CASE(S) Standard

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=37, 2-12=21, 5-12=16, 5-15=21, 7-15=16, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-46, 2-12=-30, 5-12=-25, 7-8=31
Drag: 5-6=-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, 2-13=16, 5-13=21, 5-14=16, 7-14=21, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-20, 2-13=-25, 5-13=-30, 7-8=-20
Drag: 5-6=-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=-7, 2-5=-32, 5-7=-32, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-13, 2-5=12, 7-8=22
Drag: 5-6=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, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=8, 2-5=12, 7-8=-29
Drag: 5-6=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=8, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=15
Drag: 5-6=-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=18, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-13, 2-5=-17, 7-8=-13
Drag: 5-6=-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=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=4, 2-5=8, 7-8=6

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=-21, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-13, 2-5=-8, 7-8=-22

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, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-37, 2-5=-24, 7-8=20
Drag: 5-6=-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, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-24, 2-5=-11, 7-8=20
Drag: 5-6=-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, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=10

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, 2-10=-20, 9-10=-60, 8-9=-20
Horz: 1-2=-4, 2-5=1, 7-8=10

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-20, 5-7=-20, 2-10=-40, 10-16=-80, 16-17=-100, 9-17=-80, 8-9=-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=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=3, 2-5=6, 7-8=5

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=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-10, 2-5=-6, 7-8=-16

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, 5-7=-51, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-3, 2-5=1, 7-8=8

Continued on page 3

LOAD CASE(S) Standard

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, 2-10=-35, 10-16=-75, 16-17=-90, 9-17=-75, 8-9=-35
Horz: 1-2=-3, 2-5=1, 7-8=8

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, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-2=-16, 2-5=16, 7-8=16
Drag: 5-6=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, 2-10=-12, 9-10=-52, 8-9=-12
Horz: 1-5=-16, 7-8=16
Drag: 5-6=-0

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G04	Half Hip	1	1	T35495890
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:37 2024 Page 1
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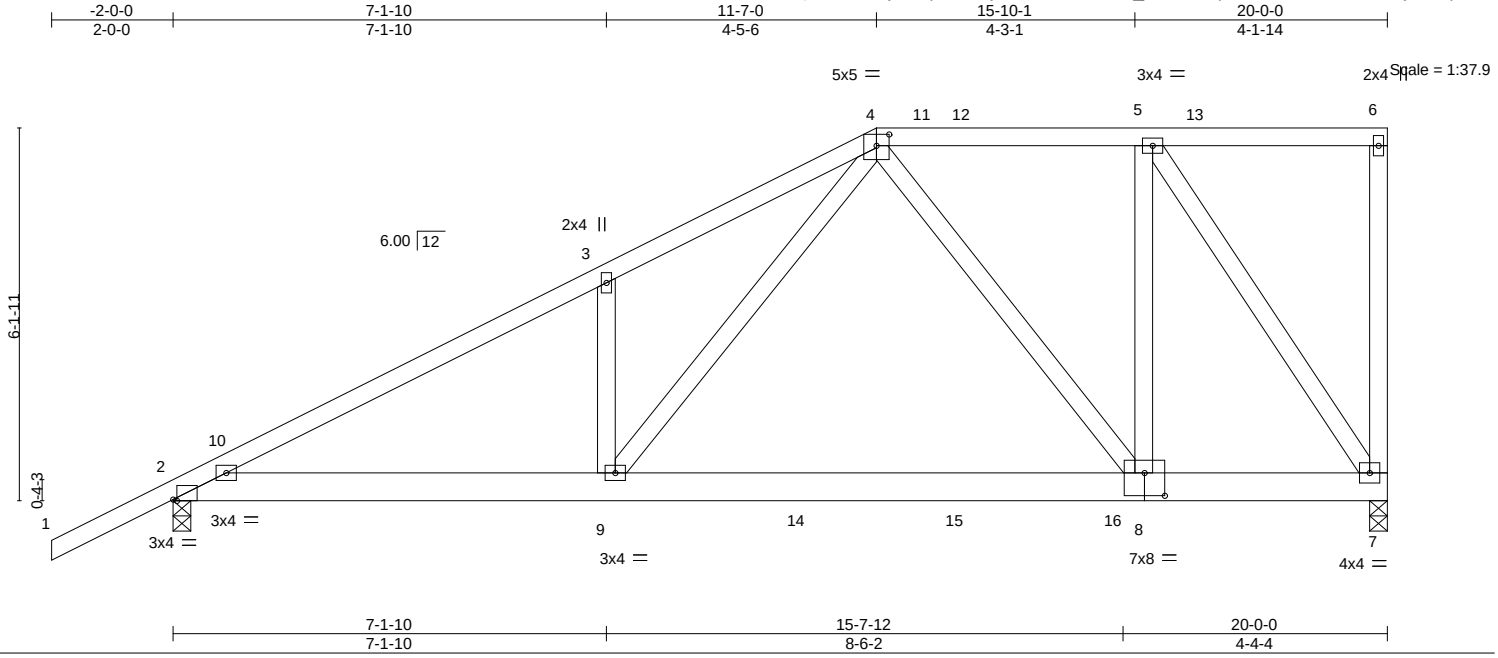


Plate Offsets (X,Y)-- [2:0-0-12,Edge], [4:0-2-8,0-2-4], [8:0-4-0,0-4-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.07	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.23	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	9	>999	240	Weight: 133 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2

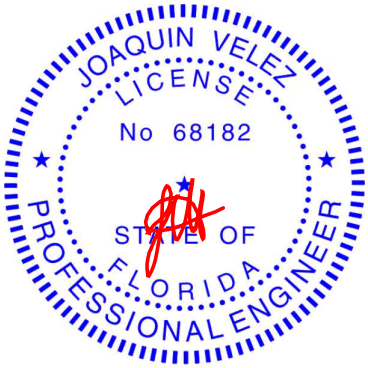
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=187(LC 9)
Max Grav 7=1076(LC 17), 2=1159(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1835/0, 3-4=-1836/0, 4-5=-701/0
BOT CHORD 2-9=0/1617, 8-9=0/932, 7-8=0/713
WEBS 3-9=-364/164, 4-9=0/1122, 4-8=-361/76, 5-8=0/798, 5-7=-1252/0

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 11-7-0, Zone2 11-7-0 to 15-11-13, Zone1 15-11-13 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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, with BCDL = 10.0psf.
6) 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 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=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 2-9=-20, 9-16=-60, 7-16=-20
2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-6=-50, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 2-9=-40, 9-16=-80, 7-16=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
November 8,2024

Continued on page 2

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Chesterfield, MO 63017
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LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=37, 2-10=21, 4-10=16, 4-5=21, 5-6=16, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-46, 2-10=-30, 4-10=-25, 6-7=32
Drag: 4-5=-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, 2-3=16, 3-4=21, 4-13=16, 6-13=21, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-20, 2-3=-25, 3-4=-30, 6-7=-20
Drag: 4-5=-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=-7, 2-4=-32, 4-6=-32, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-13, 2-4=12, 6-7=23
Drag: 4-5=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, 2-4=-32, 4-6=-32, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=8, 2-4=12, 6-7=-30
Drag: 4-5=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, 2-4=3, 4-12=14, 6-12=8, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=15
Drag: 4-12=-0, 5-12=-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, 2-4=9, 4-11=14, 6-11=18, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-13, 2-4=-17, 6-7=-13
Drag: 4-5=-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, 2-4=-28, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=4, 2-4=8, 6-7=6

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-13, 2-4=-8, 6-7=-22

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, 2-4=15, 4-6=15, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-37, 2-4=-24, 6-7=20
Drag: 4-5=-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, 2-4=3, 4-6=3, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-24, 2-4=-11, 6-7=20
Drag: 4-5=-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, 2-4=-21, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-4, 2-4=1, 6-7=10

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, 2-4=-21, 4-6=-21, 2-9=-20, 9-16=-60, 7-16=-20
Horz: 1-2=-4, 2-4=1, 6-7=10

16) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 2-9=-40, 9-14=-80, 14-15=-100, 15-16=-80, 7-16=-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, 2-4=-56, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=3, 2-4=6, 6-7=5

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, 2-4=-44, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-10, 2-4=-6, 6-7=-16

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, 2-4=-51, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-3, 2-4=1, 6-7=8

Continued on page 3

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LOAD CASE(S) Standard

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, 2-4=-51, 4-6=-51, 2-9=-35, 9-14=-75, 14-15=-90, 15-16=-75, 7-16=-35
Horz: 1-2=-3, 2-4=1, 6-7=8

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=-25, 4-6=-25, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-2=-16, 2-4=16, 6-7=16
Drag: 4-5=0

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=8, 4-6=8, 2-9=-12, 9-16=-52, 7-16=-12
Horz: 1-4=-16, 6-7=16
Drag: 4-5=-0

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G05	Half Hip	1	1	T35495891
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:38 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-1mhbciwjl1q3NZ9MizKFHmEEsRcwul?SsY0hVwyLamp

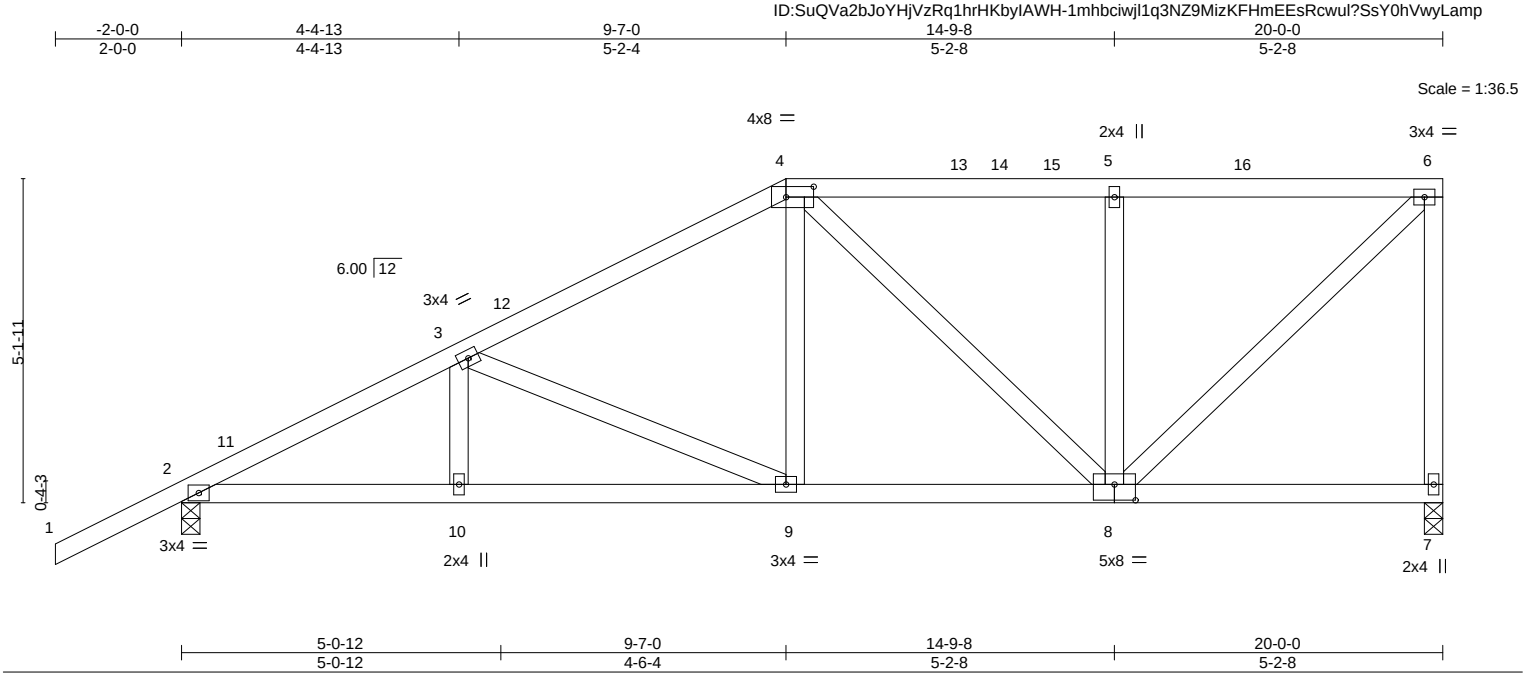


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [8:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	9-10	>999	240	Weight: 116 lb	FT = 20%

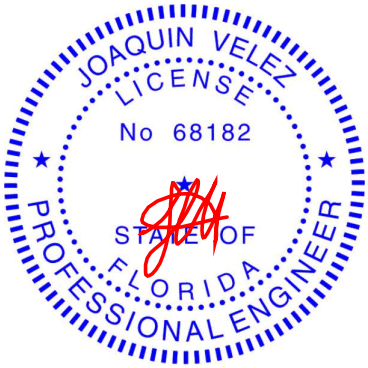
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 7=0-3-8, 2=0-3-8
Max Horz 2=158(LC 9)
Max Uplift 7=-48(LC 9), 2=-96(LC 12)
Max Grav 7=781(LC 1), 2=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1395/75, 3-4=-974/109, 4-5=-646/119, 5-6=-646/119, 6-7=-734/114
BOT CHORD 2-10=-239/1183, 9-10=-239/1183, 8-9=-171/814
WEBS 3-9=-409/72, 4-9=0/336, 5-8=-348/105, 6-8=-105/878

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 9-7-0, Zone2 9-7-0 to 13-9-15, Zone1 13-9-15 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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) 7, 2.



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

November 8,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G06	Roof Special	1	1	T35495892
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:38 2024 Page 1
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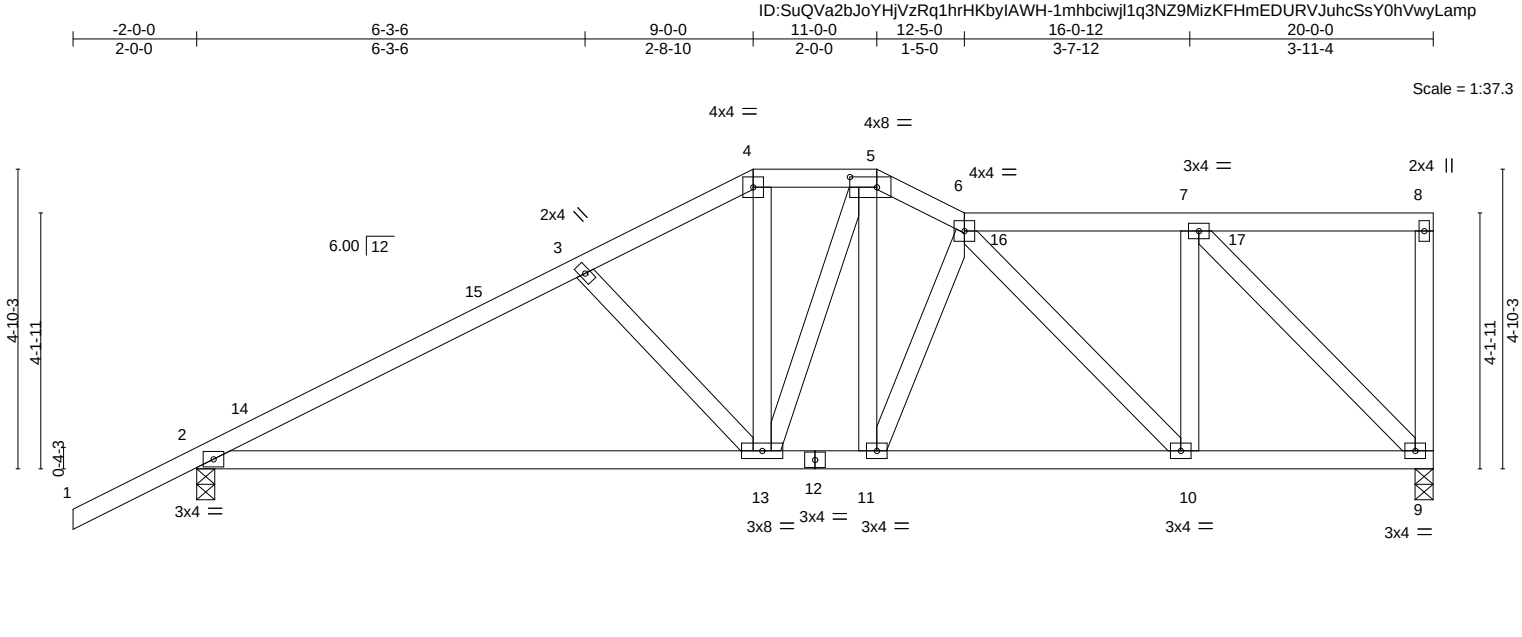


Plate Offsets (X,Y)-- [5:0-5-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.17	2-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.36	2-13	>661	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	2-13	>999	240	Weight: 121 lb	FT = 20%

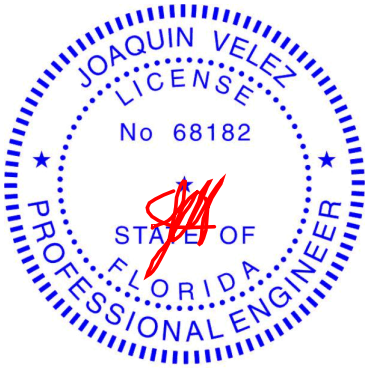
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=140(LC 11)
Max Uplift 9=-34(LC 9), 2=-97(LC 12)
Max Grav 9=781(LC 1), 2=924(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1264/168, 3-4=-1015/151, 4-5=-862/146, 5-6=-944/177, 6-7=-655/128
BOT CHORD 2-13=-288/1052, 11-13=-196/835, 10-11=-208/931, 9-10=-144/654
WEBS 3-13=-295/144, 4-13=-16/344, 6-11=-278/87, 6-10=-402/92, 7-10=0/415, 7-9=-920/145

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 9-0-0, Zone3 9-0-0 to 12-5-0, Zone1 12-5-0 to 19-10-4 zone; cantilever left and right exposed ; end vertical 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) 9, 2.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 8,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	G07	Roof Special Girder	1	1	T35495893
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:39 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-VzEzp2xLWKyw?jkYGhrUpznKGrpud88b5CmF1NyLamo

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2-0-0	7-0-0	3-0-0	3-0-0	1-5-0	2-7-12	2-11-4

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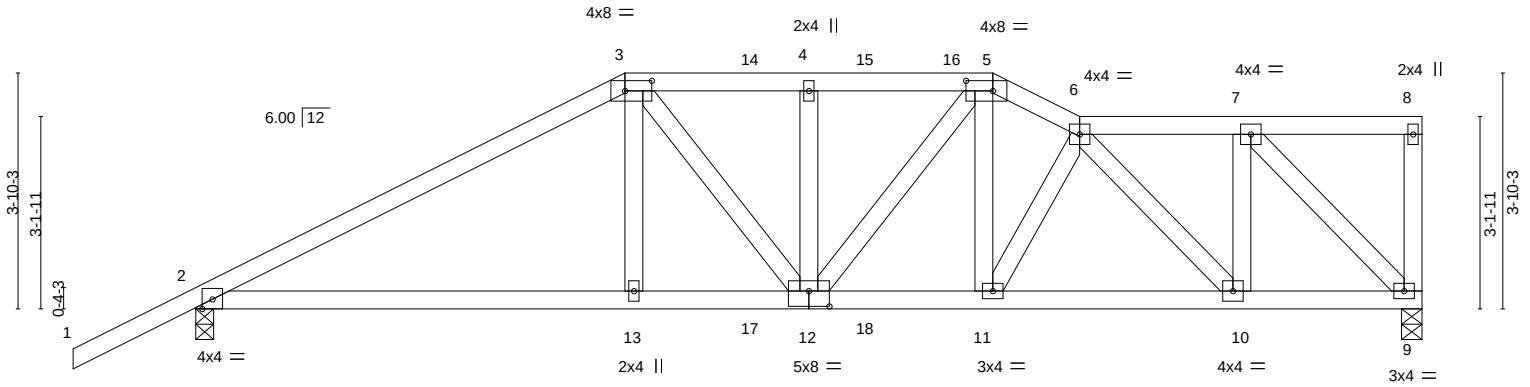


7-0-0	10-0-0	13-0-0	17-0-12	20-0-0
7-0-0	3-0-0	3-0-0	4-0-12	2-11-4

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [12:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.09	2-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.20	2-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 114 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-3: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

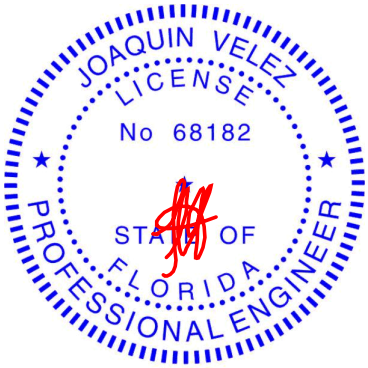
TOP CHORD	Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-4-0, 2=0-3-8
Max Horz 2=110(LC 7)
Max Uplift 9=-36(LC 5), 2=-83(LC 8)
Max Grav 9=1411(LC 1), 2=1525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2553/14, 3-4=-2394/69, 4-5=-2394/69, 5-6=-2465/62, 6-7=-1292/48
BOT CHORD 2-13=-30/2181, 12-13=-23/2198, 11-12=-49/2225, 10-11=-61/2269, 9-10=-45/1292
WEBS 3-13=0/603, 3-12=-112/393, 4-12=-374/129, 5-12=-17/303, 5-11=0/559, 6-10=-1433/25, 7-10=0/1110, 7-9=-1826/38

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); cantilever left and right exposed ; end vertical left and right exposed; 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) 9, 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 142 lb down and 86 lb up at 7-0-0, 123 lb down and 83 lb up at 9-0-12, and 123 lb down and 83 lb up at 10-11-4, and 262 lb down and 178 lb up at 13-0-0 on top chord, and 315 lb down at 7-0-0, 96 lb down at 9-0-12, and 96 lb down at 10-11-4, and 315 lb down at 12-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 6-8=-60, 2-9=-20



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

November 8,2024

Continued on page 2

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Chesterfield, MO 63017
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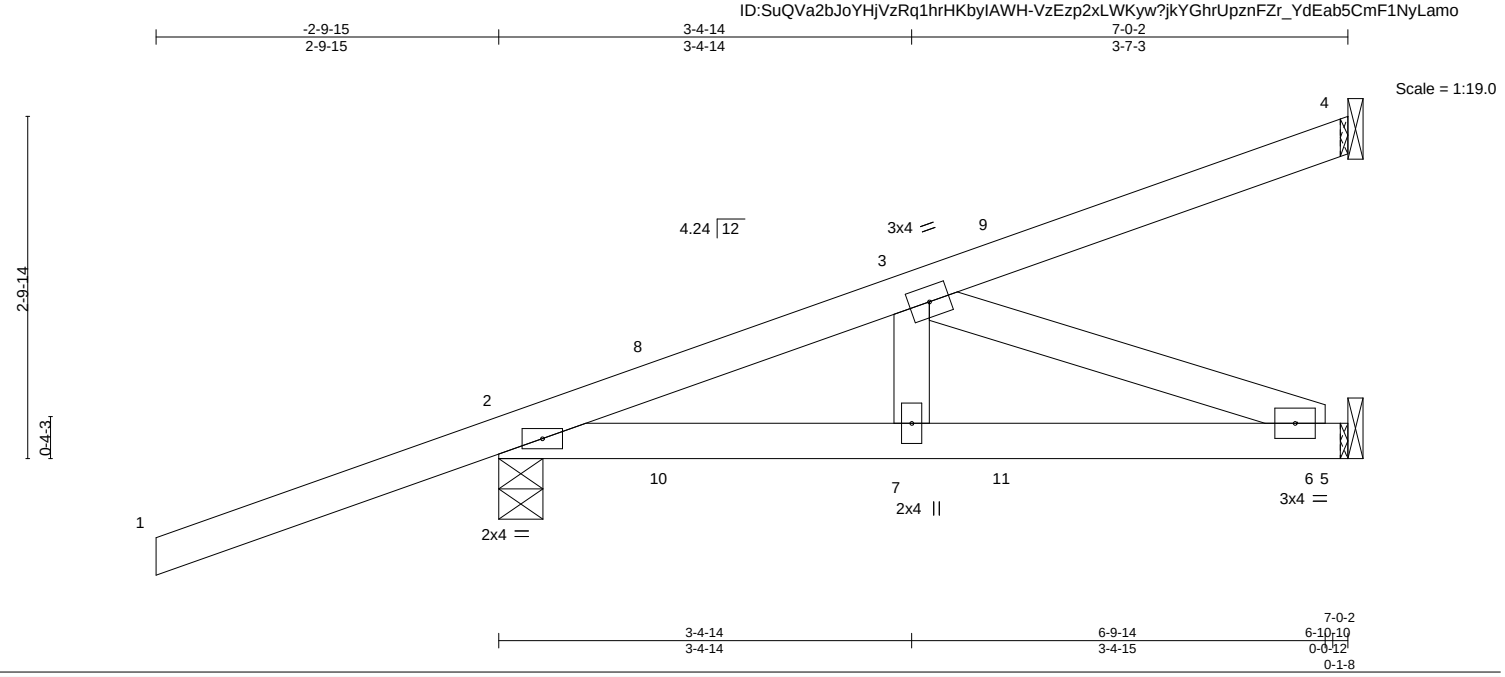
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-123(B) 5=-215(B) 13=-275(B) 11=-275(B) 14=-123(B) 15=-123(B) 17=-48(B) 18=-48(B)

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	H5	Diagonal Hip Girder	2	1	T35495894
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:39 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-VzEzp2xLWKyw?jkYGhrUpznFZr_YdEab5CmF1NyLamo



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.01	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P		Wind(LL)	-0.01	7	>999	240	Weight: 33 lb	FT = 20%

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

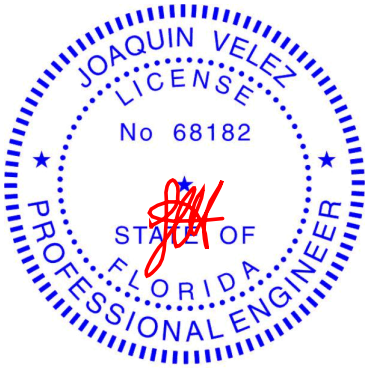
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=95(LC 8)
Max Uplift 4=-31(LC 8), 2=-173(LC 8), 5=-5(LC 5)
Max Grav 4=127(LC 19), 2=458(LC 31), 5=146(LC 32)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-424/59
BOT CHORD 2-7=-59/333, 6-7=-59/333
WEBS 3-6=-355/63

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=173.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 186 lb up at 1-4-15, 88 lb down and 186 lb up at 1-4-15, and 64 lb down and 48 lb up at 4-2-15, and 54 lb down and 23 lb up at 4-2-15 on top chord, and at 1-4-15, at 1-4-15, and 11 lb down at 4-2-15, and 11 lb down at 4-2-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 8=124(F=62, B=62)



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

November 8,2024

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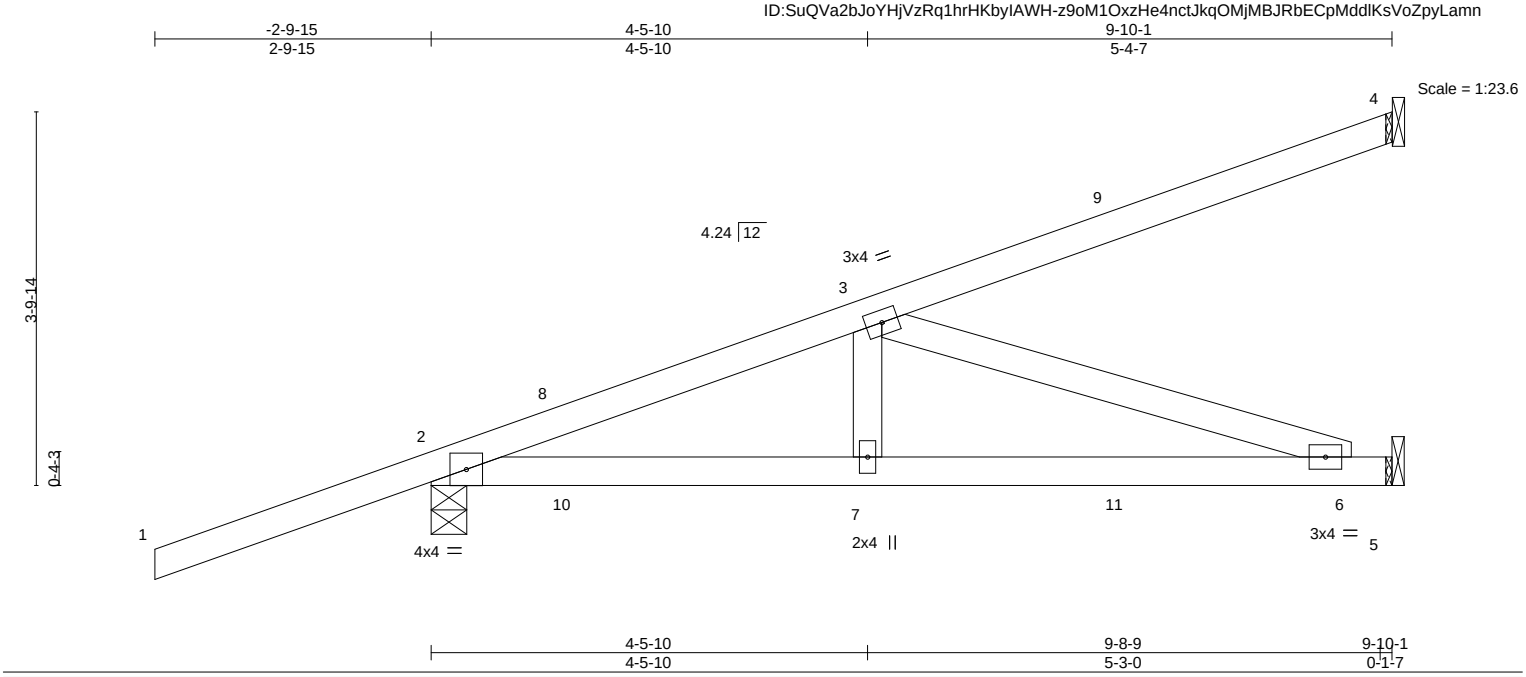
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	H7	Diagonal Hip Girder	4	1	T35495895
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:40 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-z9oM1OxzHe4nctJkqOMjMBJRbECpMddlKsVoZpyLamn



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.14	6-7	>836	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.35	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

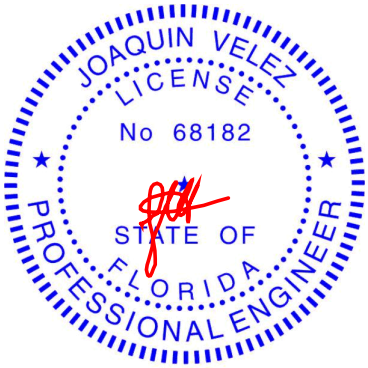
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-6, 5=Mechanical
Max Horz 2=119(LC 8)
Max Uplift 4=-57(LC 8), 2=-179(LC 8)
Max Grav 4=176(LC 1), 2=586(LC 31), 5=276(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-812/68
BOT CHORD 2-7=-99/695, 6-7=-99/695
WEBS 3-7=0/288, 3-6=-731/104

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=179.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 88 lb down and 186 lb up at 1-4-15, 88 lb down and 186 lb up at 1-4-15, 64 lb down and 48 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 95 lb down and 78 lb up at 7-0-14, and 83 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.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 8=124(F=62, B=62) 9=-89(F=-30, B=-59) 11=-39(F=-20, B=-20)



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

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	PB1	Piggyback	2	1	T35495896
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:40 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-z9oM1OxzHe4nctJkqOMjMBJdqEIRMijlKsVoZpyLamn

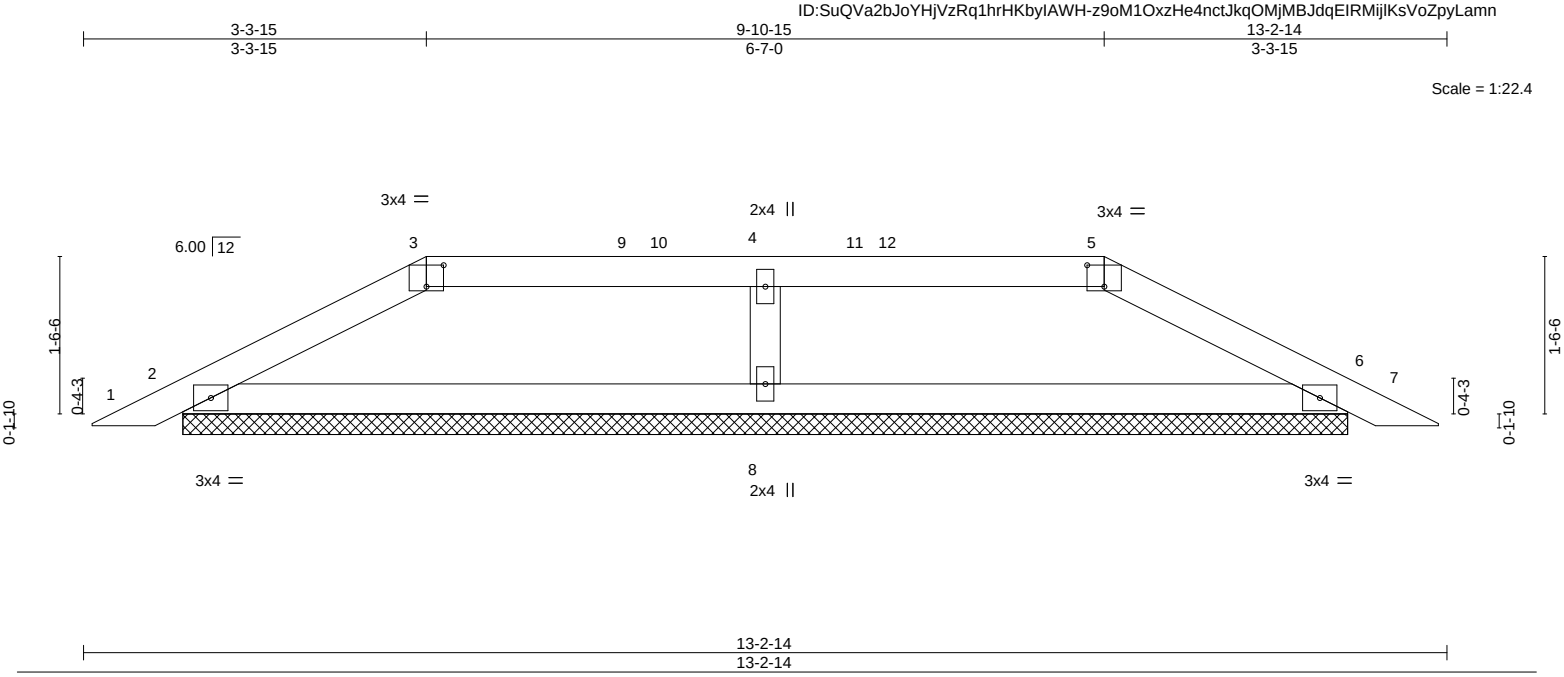


Plate Offsets (X,Y)-- [3:0-2-0,0-2-8], [5:0-2-0,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	0.01	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 39 lb	FT = 20%

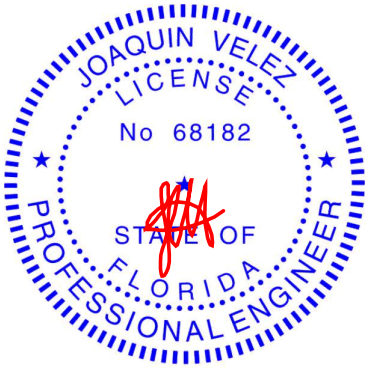
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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=11-3-12, 6=11-3-12, 8=11-3-12
Max Horz 2=-24(LC 10)
Max Uplift 2=-43(LC 12), 6=-43(LC 12)
Max Grav 2=297(LC 1), 6=297(LC 1), 8=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-352/143, 3-4=-290/143, 4-5=-290/143, 5-6=-352/143
BOT CHORD 2-8=-85/290, 6-8=-85/290

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 3-3-15, Zone2 3-3-15 to 7-6-14, Zone1 7-6-14 to 9-10-15 , Zone3 9-10-15 to 12-10-4 zone; cantilever left and right exposed ; end vertical 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.



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

November 8,2024

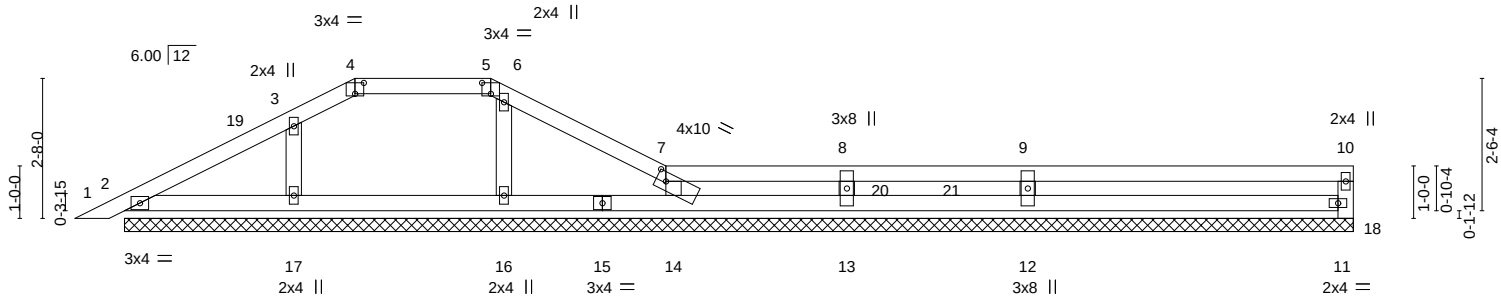
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	PB2	Piggyback	1	1	T35495897
					Job Reference (optional)

Tibbetts Lumber Co, Ocala,FL. 8.730 s Nov 16 2023 MiTek Industries, Inc. Fri Nov 8 10:58:14 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-OvLAC5tLPCK4XZoroGUV3gX3SNLX?f5HUjo0nXyLRmd

5-3-15 (5-3-15) | 7-10-15 (2-7-0) | 24-3-15 (16-5-0)

Scale = 1:43.8



24-3-15 (24-3-15)

Plate Offsets (X,Y)-- [4:0-2-0,0-2-8], [5:0-2-0,0-2-8], [7:0-2-4,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 79 lb	FT = 20%

LUMBER-

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

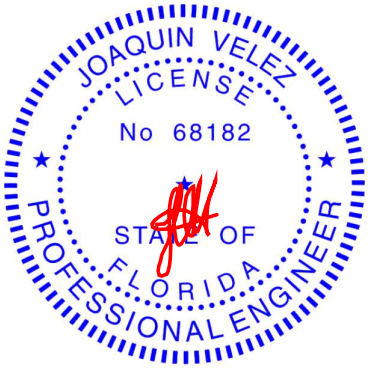
REACTIONS. (size) 18=23-4-10, 2=23-4-10, 16=23-4-10, 17=23-4-10, 14=23-4-10, 12=23-4-10, 13=23-4-10
Max Horz 2=36(LC 11)
Max Uplift 18=-14(LC 9), 2=-35(LC 12), 17=-6(LC 12), 14=-26(LC 12), 12=-32(LC 9), 13=-11(LC 12)
Max Grav 18=211(LC 24), 2=242(LC 1), 16=167(LC 24), 17=280(LC 23), 14=359(LC 24), 12=471(LC 1), 13=211(LC 24)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/16, 2-19=-250/44, 3-19=-204/50, 3-4=-230/89, 4-5=-188/81, 5-6=-211/92, 6-7=-252/55, 7-8=-112/3, 8-20=-111/3, 20-21=-111/3, 9-21=-111/3, 9-10=-111/3, 11-18=-211/14, 10-11=-162/49
BOT CHORD	2-17=-20/188, 16-17=-20/188, 15-16=-20/188, 14-15=-20/188, 13-14=-3/111, 12-13=-3/111, 11-12=-3/111
WEBS	6-16=-96/81, 3-17=-193/100, 7-14=-300/103, 9-12=-346/98, 8-13=-166/47

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 24-2-3 to 24-2-3 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) Bearing at joint(s) 18 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 14 lb uplift at joint 18, 35 lb uplift at joint 2, 6 lb uplift at joint 17, 26 lb uplift at joint 14, 32 lb uplift at joint 12 and 11 lb uplift at joint 13.
10) 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:

November 8,2024

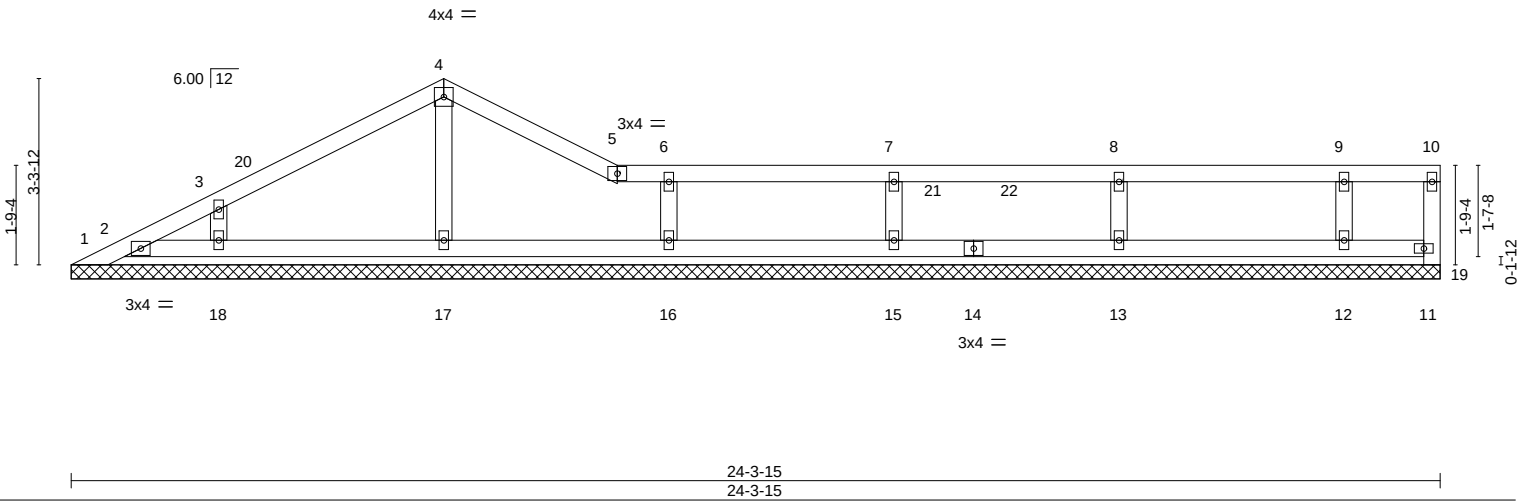
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	PB3	GABLE	1	1	T35495898
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:41 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-RLMkEkyb2yDeE1uwO6tyuOsnLehW59ouYWFM6FyLamm

6-7-7 | 9-8-7 | 24-3-15
6-7-7 | 3-1-0 | 14-7-8

Scale = 1:40.9



24-3-15
24-3-15

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 86 lb	FT = 20%

LUMBER-

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

BRACING-

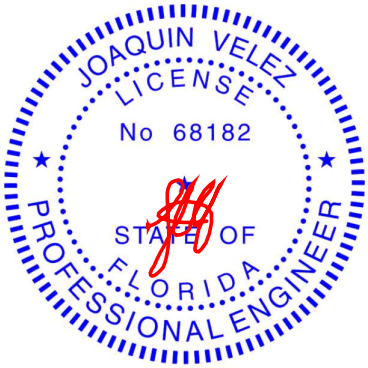
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 24-3-15.
(lb) - Max Horz 1=39(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 18, 16, 15, 13, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 1, 2, 11 except 17=314(LC 1), 18=304(LC 23), 16=335(LC 24), 15=314(LC 1), 13=331(LC 24), 12=280(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-16=-255/104

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 0-3-15 to 3-3-15, Zone1 3-3-15 to 6-7-7, Zone3 6-7-7 to 9-8-7, Zone1 9-8-7 to 24-2-3 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) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 4-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16, 15, 13, 12, 11.
13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



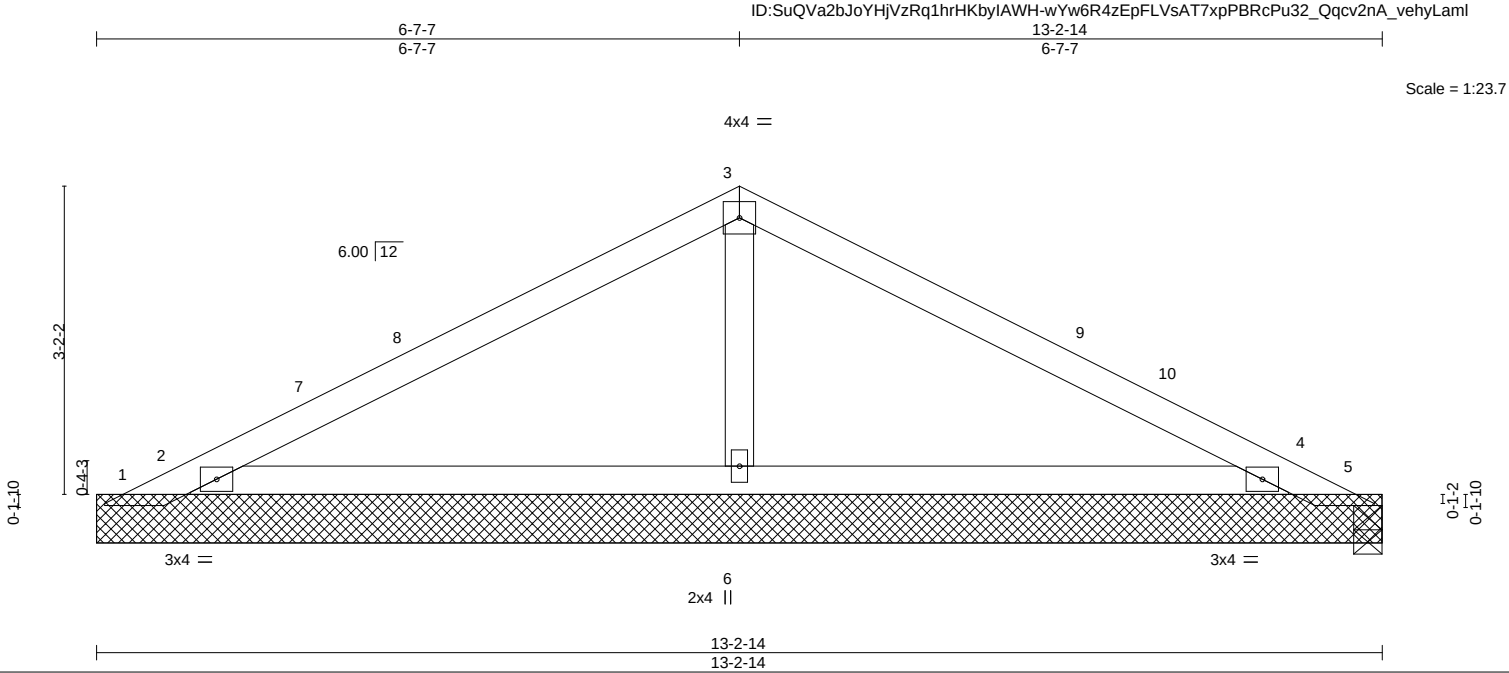
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

November 8,2024

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

Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	PB5	Piggyback	4	1	T35495899
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:42 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbyIAWH-wYw6R4zEpFLVsAT7xpPBRcPu32_Qqcv2nA_vehyLaml



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.02	4-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.04	4-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.00	4-6	>999	240	Weight: 42 lb	FT = 20%

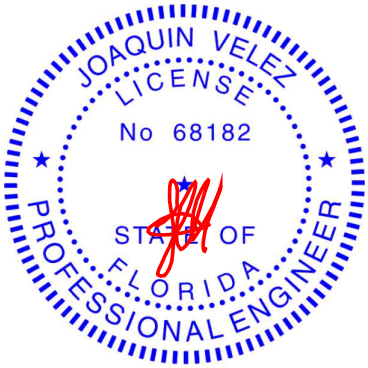
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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. All bearings 13-2-14.
(lb) - Max Horz 1=-52(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 1=-330(LC 23), 5=-237(LC 24), 5=-220(LC 1), 2=-111(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=625(LC 23), 4=544(LC 24), 6=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-281/120

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 6-7-7, Zone2 6-7-7 to 10-10-6, Zone1 10-10-6 to 13-0-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 1=330, 5=237, 2=111.
7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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November 8,2024

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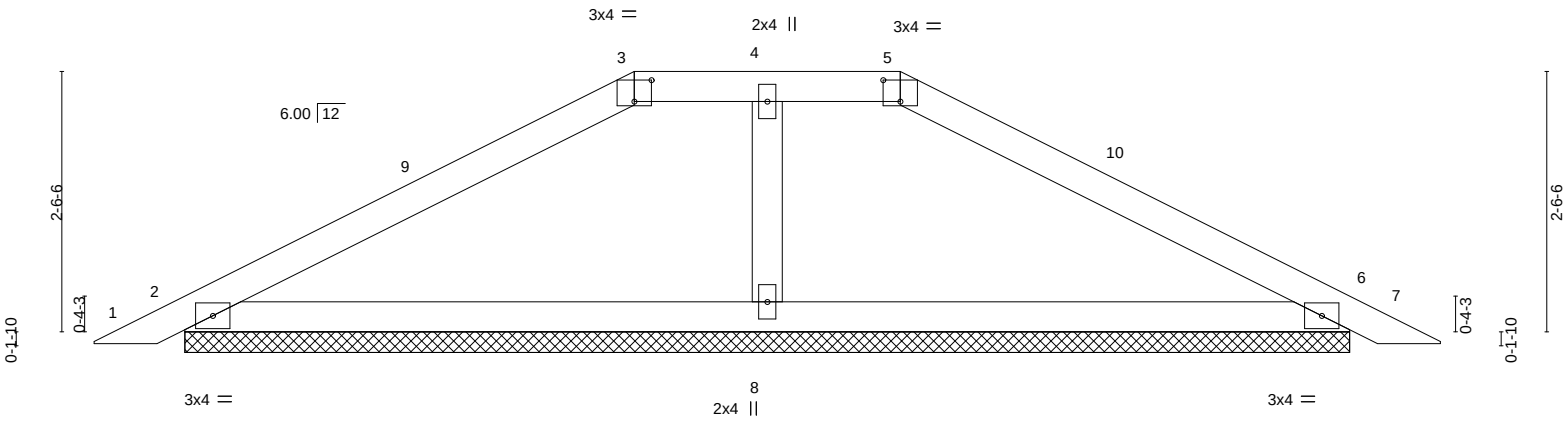
Job	Truss	Truss Type	Qty	Ply	2169-CR
6243110	PB6	Piggyback	1	1	T35495900
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Oct 31 2024 MiTek Industries, Inc. Thu Nov 7 11:43:42 2024 Page 1
ID:SuQVa2bJoYHjVzRq1hrHKbylAWH-wYw6R4zEpFLVsAT7xpPBRcPwA2ziqcN2nA_vehyLaml

5-3-15 | 7-10-15 | 13-2-14
5-3-15 | 2-7-0 | 5-3-15

Scale = 1:22.4



13-2-14
13-2-14

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	1.15	TC	0.32	Vert(LL)	0.01	7	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	0.02	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%

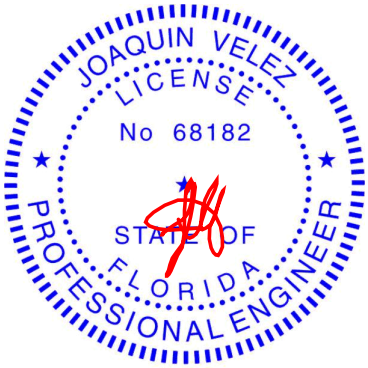
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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=11-3-12, 6=11-3-12, 8=11-3-12
Max Horz 2=41(LC 11)
Max Uplift 2=-59(LC 12), 6=-59(LC 12)
Max Grav 2=341(LC 1), 6=341(LC 1), 8=314(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-368/167, 3-4=-275/177, 4-5=-275/177, 5-6=-368/167
BOT CHORD 2-8=-84/275, 6-8=-84/275

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 5-3-15, Zone3 5-3-15 to 7-10-15 , Zone2 7-10-15 to 12-3-5, Zone1 12-3-5 to 12-10-4 zone; cantilever left and right exposed ; end vertical 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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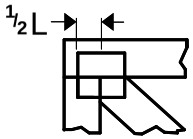
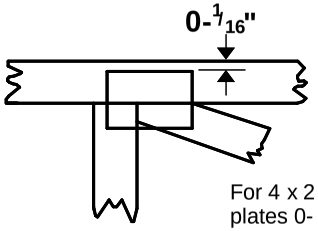
Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

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

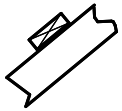
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

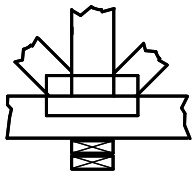
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

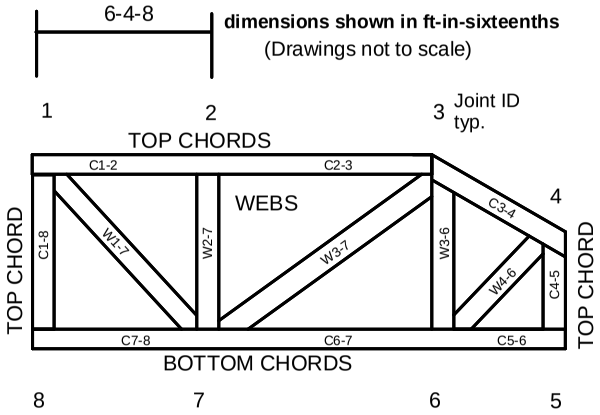


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

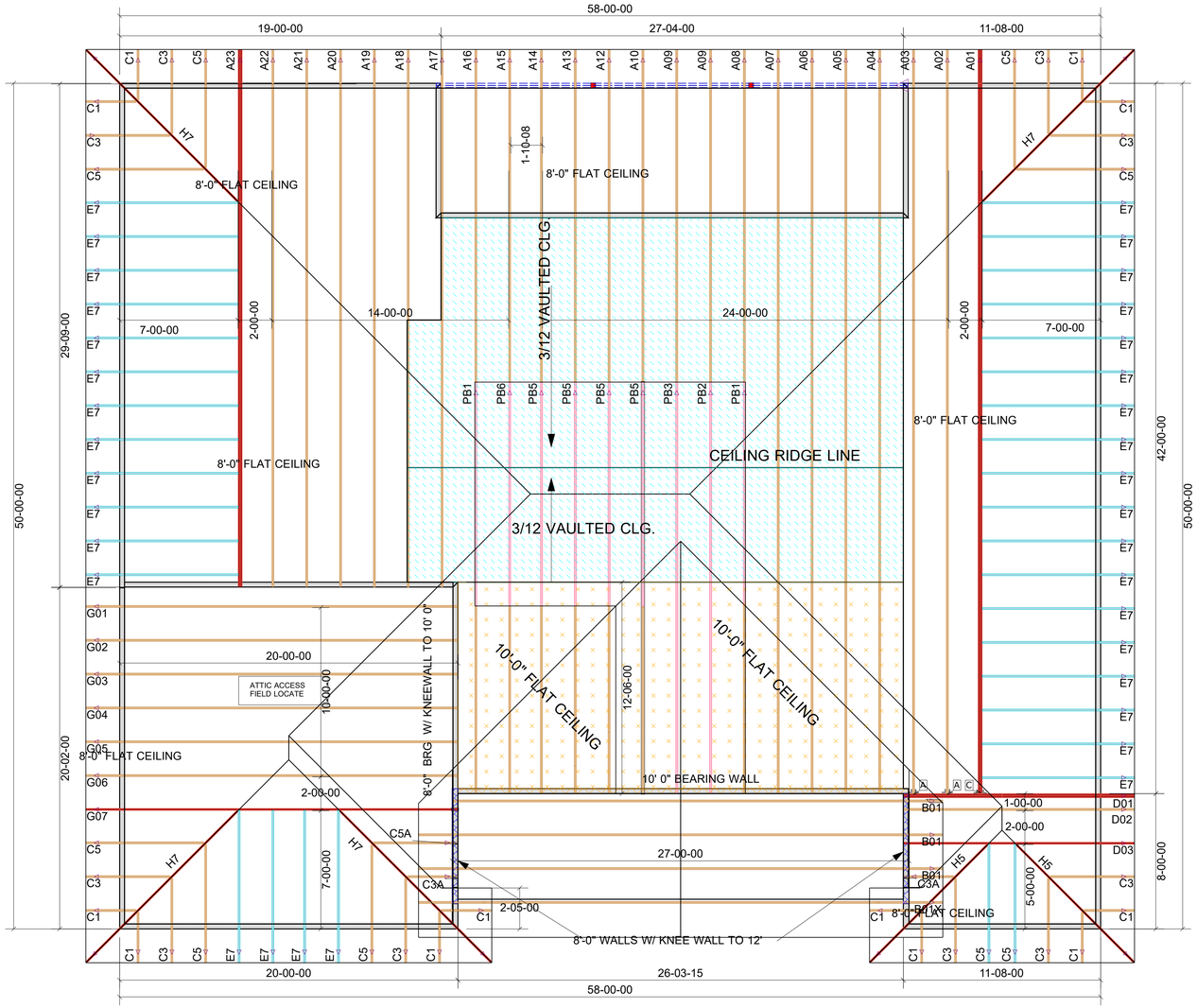
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Hatch Legend
3/12 Vaulted Ceiling
10'-0" Flat Ceiling
10'-0" BEARING WALL
KNEE WALL TO 12'

*** Approved By: _____ Delivery Date: _____

Please Print Name | Employed By | Approval Date

TIBBETTS LUMBER CO., LLC

6100 SE 68th Street, Ocala, FL 34472
Phone (352) 347-7661 Fax: (347) 347-7797

CLIENT APPROVAL

*** Signature of this document acknowledges that the client has reviewed this truss placement diagram in its entirety as in agreement with the following terms, including , but not limited to:

a) The client is responsible to verify the accuracy of information submitted for use in design, fabrication and scheduling. Any labor, material or time delay incurred from inadequate or incorrect information supplied from the client, will be at the client's expense. Any field measurements, by an associate of Tibbetts Lumber Co., LLC, are performed as a courtesy to the client and shall be verified by the client.

b) Design Criteria: The client acknowledges that the truss design criteria noted on this truss placement diagram meets or exceeds the design criteria specified by the building designer, engineer of record, and local and state building requirements

c) Fabrication and Delivery: One approved truss placement diagram must be returned to the truss manufacturer before fabrication and delivery will be scheduled. It is the client's responsibility to co-ordinate deliver dates with the truss manufacturer. The client shall provide a marked location for delivery, which must be accessible, level and clear of materials and debris. In lieu of this, truss will be delivered in the best available location at our driver's discretion. Care and handling of the trusses following delivery is the responsibility of the client.

d) Installation & Bracing: BCSI 2008 (Building Component Safety Information) WTCA/TPI guidelines shall be followed when handling, installing & bracing trusses. Temporary and/or permanent bracing and blocking is not included in this truss package. Trusses shall be braced to prevent rotation and provide lateral stability in accordance with the requirements specified in the construction documents for the building and on the individual truss design drawings. The overall stability of the truss system is the responsibility of the building designer.

e) Field Framing: 1.) Tray ceilings and other ceiling transitions my require field framing by others. 2.) Ceiling drops and valleys not shown are to be field framed by others. 3.) Overhangs may be over-length - cut to fit in the field. Overhangs are 2x4 or 2x6 - no blocking is applied. Corner jacks will be square cut and hip jacks will be double beveled

f) Repairs: Truss related problems are to be reported to the truss manufacturer ASAP, preferably in writing. Do Not Cut Any Trusses before contacting the truss manufacturer with specifics of the problem. Any field modifications made without an engineered repair drawing will be the responsibility of the client. No buck charges or crane charges of any kind will be accepted unless specifically approved in writing by the truss manufacturer's management.

g) This Truss Placement Diagram was not created by an engineer, rather by Tibbetts Lumber Co, LLC staff and is purely to be used as an installation guide and does not require a seal. Truss design analysis are on the Truss Design Drawings, which may be sealed by the Truss Design Engineer.

TYPICAL DESIGN CRITERIA

Floor: Load: 55# psf; 40 TCLL, 10 TCDL, 00 BCLL, 05 BCDL; Dur.: 1.00
Design checked for 10 psf non-concurrent LL on BC.

Roof: Load: 40# psf; 20 TCLL, 10 TCDL, 00 BCLL, 10 BCDL; Dur.: 1.25
Design checked for 10 psf non-concurrent LL on BC

Mitek Engineering			Exposure	:	B
Building Code	: FBC 2023		Mean Height	:	≤ 15'
	: ASCE 7-22		Bldg. Category	:	II
	: TPI 1-2014		Importance Factor	:	1.00
Truss Design	: Comp. & Cladding		Enclosure	:	Enclosed
Uplift Calculations	: MWFRS		Entry	:	Exposed to Wind
Wind Speed	: 130 mph US		Lanai	:	Exposed to Wind

ROOF CRITERIA			FLOOR CRITERIA		
T.C. Pitch	:	6/12	T.C. Size	:	PC42
B.C. Pitch	:	3/12	Depth	:	16"
T.C. Size	:	2x4	Spacing	:	16" O.C.
Heel Height	:	4 3/16"	Bearing	:	8"
Bearing	:	8"	Lumber	:	SP
Cantilever	:	0	Vapor barrier between floor & concrete by other. Floor trusses held back 3/4" at exterior wall, block and fill by other. Blocking for transfer of vertical load from above by others. Odd space floor trusses around plumbing as noted.		
Overhang	:	24"			
O.H. Cut	:	Plumb			
Spacing	:	24" O.C.			
Lumber	:	SP			

CONNECTORS

Roof Truss to Truss Connectors						Floor Truss to Truss Connectors			
A	TYP: THD26						TYP: THD46		
A*	JUS24	G	THDH28-2	M		Q	THDH46	W	MSH422IF
B	THD26-2	H	THDH28-3	N		R	THD48	X	MSH426
C	THDH26-2	I	THDH210-3	O		S	THDH48	Y	MSH426IF
D	THDH26-3	J	GTWS2T			T	THDH410	Z	
E	THD28	K	GTWS3T			U	THDH610		
F	THDH28	L	GTWS4T			V	MSH422		

Installation shall be per connector manufacturer's guidelines. All connectors and tie downs other than truss to girder truss connectors are to be specified and supplied by others.

UPLIFT SUMMARY

1			11			21		
2			12			22		
3			13			23		
4			14			24		
5			15			25		
6			16			26		
7			17			27		
8			18			28		
9			19			29		
10			20			30		

Only points listed above have reactions > 5000# or Uplift > 1000#.
Values shown on the sealed Truss Design Drawings supersede the above

NOTES

N1	.
N2	.
N3	.
N4	.
N5	.
N6	.
N7	.
N8	.
N9	.

Diamond indicates left side of truss on truss design drawings

Client Info

Client:	Adams Homes
Project:	Model 2169 CR
Address:	Lot # 086 The Preserve at Laurel Lake
	.
	Lake City ,Florida

Rev.

.	
.	
.	

Date	:	11/07/24	Scale	:	1/4" = 1'-0"	D= 1/4
Revised	:	.	Drawn By	:	Steve R	
Sheet #	:	1 of 1	Job #	:	6243110	

Tibbetts Lumber Ocala

6100 SE 68th St
Ocala, FL 34472
Phone: 352-347-7661
www.tibbettslumber.com

Reaction Summary

Job Number: **6243110-R**
Quoted On:
Ordered On: **11/4/2024**
Scheduled Delivery On:
Product: **Roof**

Customer Information
Adams Homes of NW FL - Gainesville

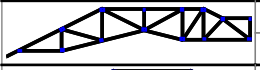
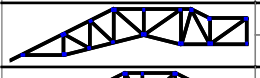
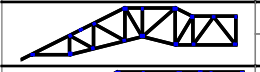
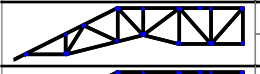
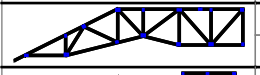
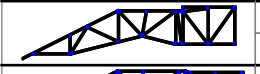
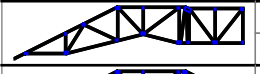
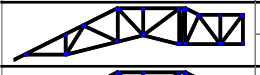
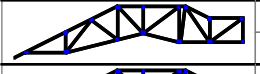
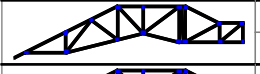
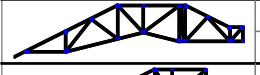
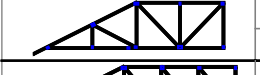
Address & Phone	Contact
Phone:	

Job Information
The Preserve at Laurel Lake 086

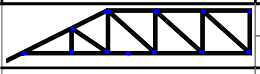
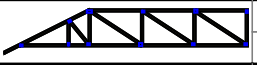
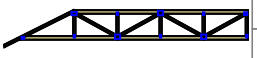
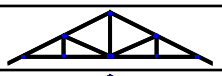
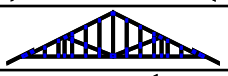
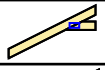
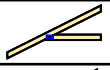
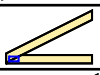
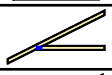
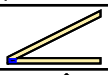
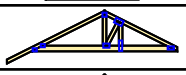
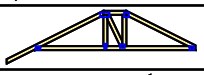
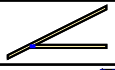
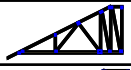
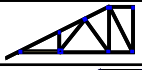
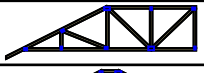
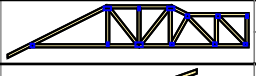
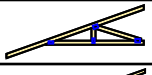
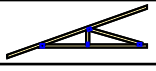
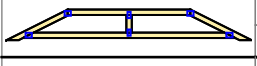
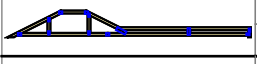
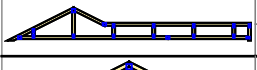
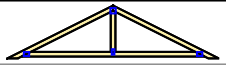
Address	Lot	Sub-Division
345 SW Silver Palm Dr Lake City 32024	086	The Preserve at Laurel Lake
	Sales Person: Chris Adam	Customer P.O. No.
	Estimator: Steven Roberts	Designer: Steven Roberts

Loading				Building Code	Wind Design Method	Velocity	Exp Cat / Occ Cat	Wind Max	
TCLL	TCDL	BCLL	BCDL					TCDL	BCDL
20	10	0	10	FBC2023/TPI2014	MWFRS (Directional)/C-C hybrid Wind ASCE 7-22	130 mph	B II	4.2	6

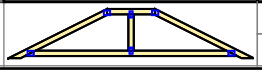
Roof Trusses

Label	Profile	Qty / Ply	Span / Height	TC Pitch / BC Pitch	TC / BC	Reactions
A01		1 2-ply	42-00-00 4-09-15	6 /12	2 x 6 2 x 6	Joint 2 3306 -220; Joint 9 3479 -246
A02		1 1-ply	42-00-00 5-09-15	6 /12	2 x 4 2 x 4	Joint 10 1665 -71; Joint 2 1800 -135
A03		1 1-ply	42-00-00 6-09-15	6 /12	2 x 4 2 x 4	Joint 10 1665 -71; Joint 2 1800 -135
A04		1 1-ply	42-00-00 7-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1136 -47; Joint 18 2822 -204; Joint 2 -39 -701
A05		1 1-ply	42-00-00 8-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10 1216 -52; Joint 15 2396 -181; Joint 2 -25 -353
A06		1 1-ply	42-00-00 9-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11 1233 -54; Joint 17 2306 -107; Joint 2 46 -266
A07		1 1-ply	42-00-00 10-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1385 -56; Joint 18 2424 -99; Joint 2 88 -140
A08		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11 1413 -56; Joint 16 2497 -104; Joint 2 66 -72
A09		2 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11 1413 -56; Joint 16 2497 -104; Joint 2 66 -72
A10		1 1-ply	42-00-00 10-11-03	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1410 -71; Joint 18 2463 -209; Joint 2 -7 -121
A12		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1379 -56; Joint 18 2487 -106; Joint 2 64 -198
A13		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1247 -62; Joint 18 2234 -207; Joint 2 28 -202
A14		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11 1361 -54; Joint 16 2472 -107; Joint 2 46 -191
A15		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11 1253 -54; Joint 17 2198 -104; Joint 2 57 -179
A16		1 1-ply	42-00-00 10-01-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1256 -54; Joint 18 2184 -103; Joint 2 67 -168
A17		1 1-ply	29-09-08 10-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12 1384 -121; Joint 13 809 -63; Joint 2 296 -135
A18		1 1-ply	29-09-08 9-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 15 1190 -59; Joint 2 1331 -99
A19		1 1-ply	29-09-08 8-09-15	6 /12	2 x 4 2 x 4	Joint 2 1456 -110; Joint 7 1369 -65
A20		1 1-ply	29-09-08 7-09-15	6 /12	2 x 4 2 x 4	Joint 2 1461 -111; Joint 8 1348 -58

Roof Trusses

Label	Profile	Qty / Ply	Span / Height	TC Pitch / BC Pitch	TC / BC	Reactions
A21		1 1-ply	29-09-08 6-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 8 1313 1175 -112 -51
A22		1 1-ply	29-09-08 5-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 8 1313 1175 -113 -50
A23		1 2-ply	29-09-08 4-09-15	6 /12	2 x 6 2 x 6	Joint 2 Joint 8 2296 2492 -151 -166
B01		3 1-ply	27-00-00 8-00-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 6 1197 1197 -337 -337
B01X		1 1-ply	27-00-00 7-09-00	6 /12	2 x 4 2 x 4	Joint 2 Joint 8 1197 1197 -107 -107
C1		12 1-ply	1-00-00 1-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 3 Joint 4 290 68 19 -134 -101 6
C3		10 1-ply	3-00-00 2-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 3 Joint 4 290 37 56 -85 -14 17
C3A		2 1-ply	3-00-00 1-10-03	6 /12	2 x 4 2 x 4	Joint 1 Joint 2 Joint 3 112 84 56 5 -31 17
C5		9 1-ply	5-00-00 3-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 3 Joint 4 349 115 96 -70 -36 29
C5A		1 1-ply	5-00-00 2-10-03	6 /12	2 x 4 2 x 4	Joint 1 Joint 2 Joint 3 192 144 96 7 -53 29
D01		1 2-ply	11-08-00 4-02-15	6 /12	2 x 4 2 x 6	Joint 2 Joint 5 2354 5438 -209 -313
D02		1 1-ply	11-08-00 4-02-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 4 596 443 -87 -13
D03		1 1-ply	11-08-00 3-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 5 765 618 -117 -44
E7		34 1-ply	7-00-00 4-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 3 Joint 4 421 183 136 -63 -62 41
G01		1 1-ply	20-00-00 10-01-07	6 /12	2 x 4 2 x 6	Joint 2 Joint 8 1158 1121 57 152
G02		1 1-ply	20-00-00 9-01-07	6 /12	2 x 4 2 x 6	Joint 2 Joint 7 1067 976 51 146
G03		1 1-ply	20-00-00 8-01-07	6 /12	2 x 4 2 x 6	Joint 2 Joint 8 1162 1095 53 149
G04		1 1-ply	20-00-00 7-01-07	6 /12	2 x 4 2 x 6	Joint 2 Joint 7 1159 1076 49 140
G05		1 1-ply	20-00-00 6-01-07	6 /12	2 x 4 2 x 4	Joint 2 Joint 7 924 781 -96 -48
G06		1 1-ply	20-00-00 5-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 9 924 781 -97 -34
G07		1 1-ply	20-00-00 4-09-15	6 /12	2 x 4 2 x 4	Joint 2 Joint 9 1525 1411 -83 -36
H5		2 1-ply	7-00-02 3-09-07	4.24 /12	2 x 4 2 x 4	Joint 2 Joint 4 Joint 5 458 127 146 -173 -31 -5
H7		4 1-ply	9-10-01 4-09-07	4.24 /12	2 x 4 2 x 4	Joint 2 Joint 4 Joint 5 586 176 276 -179 -57 5
PB1		2 1-ply	13-02-14 1-07-12	6 /12	2 x 4 2 x 4	Joint 2 Joint 6 Joint 8 297 297 380 -43 -43 8
PB2		1 1-ply	24-03-15 2-08-00	6 /12	2 x 4 2 x 4	Joint 11 Joint 12 Joint 14 Joint 15 Joint 16 Joint 2 604 491 130 288 188 236 -41 -27 7 -3 -13 -37
PB3		1 1-ply	24-03-15 3-03-12	6 /12	2 x 4 2 x 4	***Continuous Support***
PB5		4 1-ply	13-02-14 3-03-08	6 /12	2 x 4 2 x 4	Joint 1 Joint 2 Joint 4 Joint 5 Joint 6 79 625 544 59 417 -330 -111 -91 -237 21

Roof Trusses

Label	Profile	Qty / Ply	Span / Height	TC Pitch / BC Pitch	TC / BC	Reactions		
						Joint 2	Joint 6	Joint 8
PB6		1	13-02-14	6 /12	2 x 4	341	341	314
		1-ply	2-07-12		2 x 4	-59	-59	45