RE: 6241952
1820-CR Frame

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

Site Information:

Customer: Adams Homes-Gainesville
Lot/Block: 001
Address: SW Rosemary Dr
City: Lake City

Project Name: 6241952
Model: 1820-CR Frame
Subdivision: The Preserve at Laurel Lake
State: fl

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

Design Code: FBC2023/TPI2014
Wind Code: ASCE 7-22
Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.7
Wind Speed: 130 mph
Floor Load: N/A psf

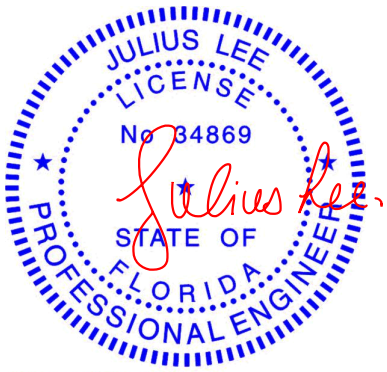
This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33060201	A01	2/28/2024	21	T33060221	E7V	2/28/2024
2	T33060202	A02	2/28/2024	22	T33060222	E68	2/28/2024
3	T33060203	A03	2/28/2024	23	T33060223	G01	2/28/2024
4	T33060204	A04	2/28/2024	24	T33060224	G01X	2/28/2024
5	T33060205	A05	2/28/2024	25	T33060225	G02	2/28/2024
6	T33060206	A06	2/28/2024	26	T33060226	H7V	2/28/2024
7	T33060207	A07	2/28/2024	27	T33060227	H68	2/28/2024
8	T33060208	A08	2/28/2024				
9	T33060209	A09	2/28/2024				
10	T33060210	A10	2/28/2024				
11	T33060211	A11	2/28/2024				
12	T33060212	A12	2/28/2024				
13	T33060213	A13	2/28/2024				
14	T33060214	C1E	2/28/2024				
15	T33060215	C1V	2/28/2024				
16	T33060216	C3E	2/28/2024				
17	T33060217	C3V	2/28/2024				
18	T33060218	C5E	2/28/2024				
19	T33060219	C5V	2/28/2024				
20	T33060220	E7A	2/28/2024				

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: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.
Florida COA: 6634

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: February 28, 2024

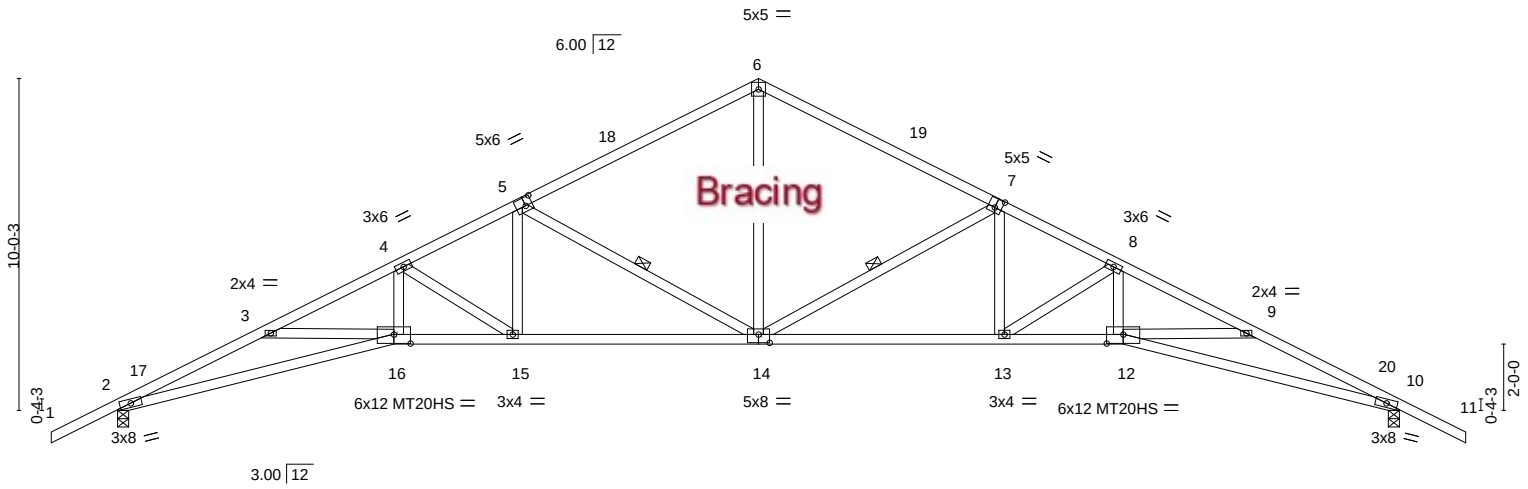
Lee, Julius

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A01	Roof Special	14	1	T33060201
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:04 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-LsMhenOhd1SGlwZzK1prOmfmPDxbjNzbVfwVXezh?Hb

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

Scale = 1:69.5



8-4-0	12-0-12	19-4-0	26-7-4	30-4-0	38-8-0
8-4-0	3-8-12	7-3-4	7-3-4	3-8-12	8-4-0

Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [7:0-2-8,0-3-4], [12:0-6-0,0-3-4], [14:0-4-0,0-3-0], [16:0-6-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.44	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.93	14-15	>494	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.63	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.24	14	>999	240	Weight: 205 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	5-6: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP M 31 or 2x4 SP SS *Except*
	14-16,12-14: 2x4 SP No.2
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 7-14, 5-14

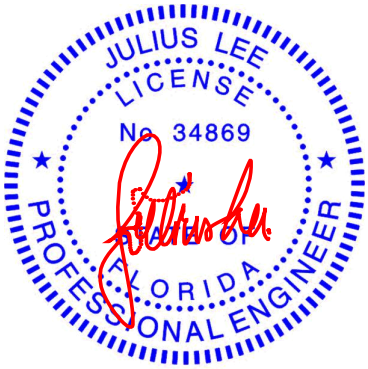
REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=-175(LC 10)
Max Uplift 2=-128(LC 12), 10=-128(LC 12)
Max Grav 2=1663(LC 1), 10=1663(LC 1)

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

TOP CHORD	2-3=-5168/361, 3-4=-4972/261, 4-5=-3510/248, 5-6=-2252/224, 6-7=-2251/220, 7-8=-3509/256, 8-9=-4971/277, 9-10=-5168/376
BOT CHORD	2-16=-263/4639, 15-16=-110/4331, 14-15=-62/3117, 13-14=-86/3099, 12-13=-140/4331, 10-12=-292/4640
WEBS	6-14=-38/1502, 7-14=-1353/155, 7-13=0/882, 8-13=-1439/64, 8-12=-3/1231, 5-14=-1366/150, 5-15=0/881, 4-15=-1438/57, 4-16=0/1231

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A02	HIP	1	1	T33060202
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:05 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-p2w3s7PJOLa7w489ulK4wzCx8dHqSqEljJf234zh?Ha

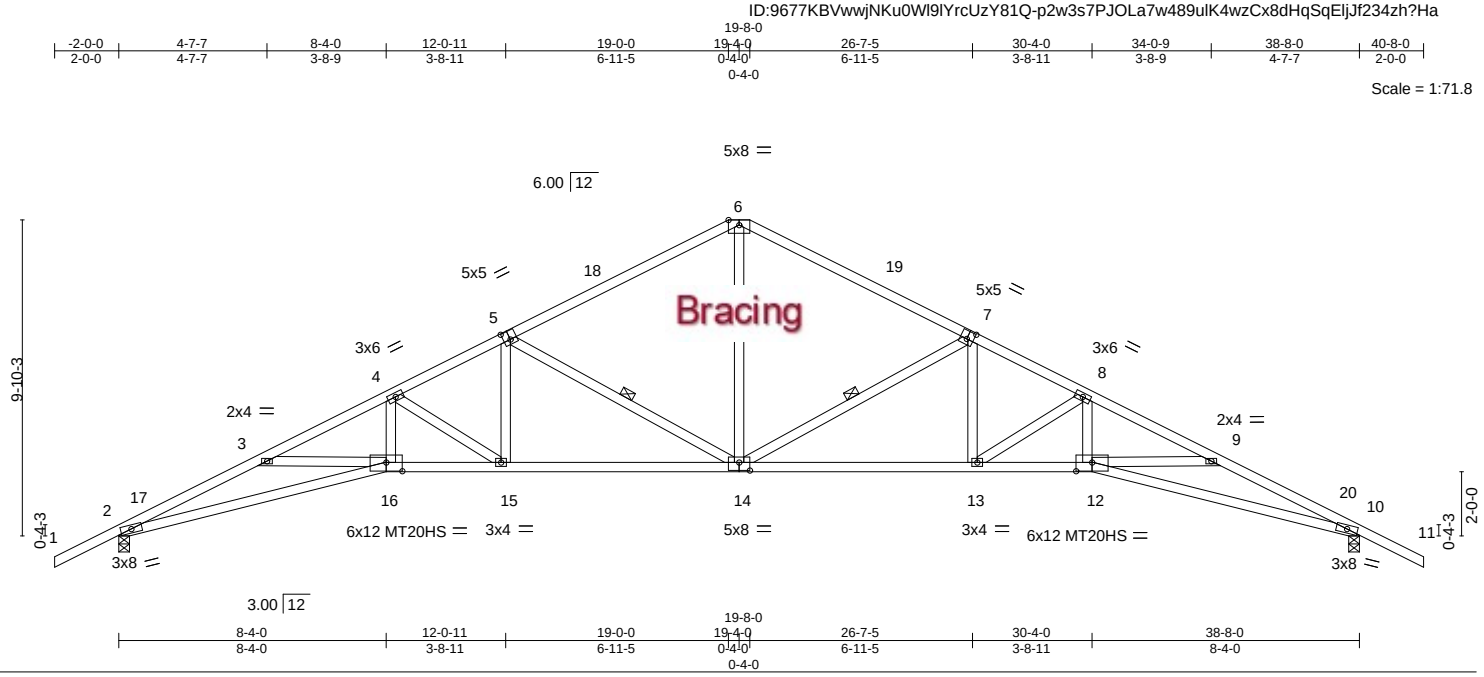


Plate Offsets (X,Y)-- [5:0-2-8,0-3-4], [7:0-2-8,0-3-0], [12:0-6-0,0-3-4], [14:0-4-0,0-3-0], [16:0-6-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.44	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.93	13-14	>494	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.63	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.24	14	>999	240	Weight: 205 lb	FT = 20%

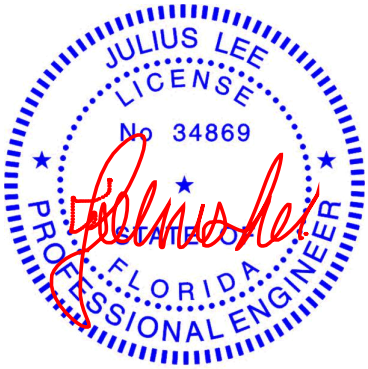
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-7: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
2-16,10-12: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-14, 7-14

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5161/329, 3-4=-4967/228, 4-5=-3509/220, 5-6=-2251/196, 6-7=-2251/192, 7-8=-3509/225, 8-9=-4967/241, 9-10=-5161/341
BOT CHORD 2-16=-237/4632, 15-16=-85/4327, 14-15=-39/3098, 13-14=-57/3116, 12-13=-109/4327, 10-12=-260/4632
WEBS 4-16=0/1229, 4-15=-1436/56, 5-15=0/881, 5-14=-1352/136, 7-14=-1366/138, 7-13=0/881, 8-13=-1435/62, 8-12=0/1229, 6-14=-31/1502

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A03	Hip	1	1	T33060203

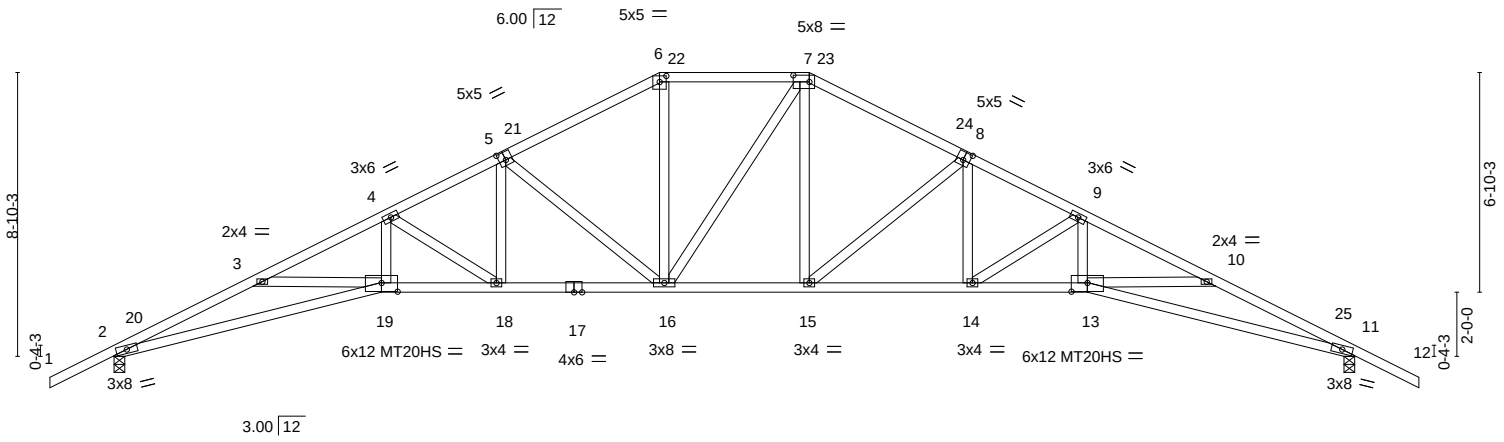
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:07 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-lR1qGpQZwyqr9OHY0AMY?OHMjQzbweo2Bd898zzh?HY

-2-0-0	4-7-7	8-4-0	12-0-12	17-0-0	21-8-0	26-7-4	30-4-0	34-0-9	38-8-0	40-8-0
2-0-0	4-7-7	3-8-9	3-8-12	4-11-4	4-8-0	4-11-4	3-8-12	3-8-9	4-7-7	2-0-0

Scale = 1:71.8



8-4-0	12-0-12	17-0-0	21-8-0	26-7-4	30-4-0	38-8-0
8-4-0	3-8-12	4-11-4	4-8-0	4-11-4	3-8-12	8-4-0

Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [6:0-2-8,0-2-4], [7:0-6-0,0-2-8], [8:0-2-8,0-3-0], [13:0-6-0,0-3-4], [19:0-6-0,0-3-4]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.44	15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.88	14-15	>520	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.61	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.24	15	>999	240	Weight: 218 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-19,11-13: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

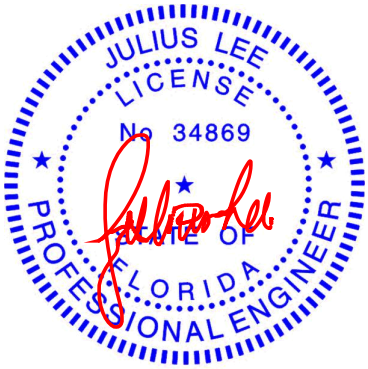
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 18-19,13-14.

REACTIONS. (size) 2=0-4-0, 11=0-4-0
Max Horz 2=156(LC 11)
Max Uplift 2=-128(LC 12), 11=-128(LC 12)
Max Grav 2=1663(LC 1), 11=1663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5162/373, 3-4=-4983/282, 4-5=-3490/257, 5-6=-2518/232, 6-7=-2209/233, 7-8=-2516/235, 8-9=-3490/264, 9-10=-4983/295, 10-11=-5162/385
BOT CHORD 2-19=-276/4634, 18-19=-134/4344, 16-18=-65/3065, 15-16=0/2207, 14-15=-84/3066, 13-14=-158/4344, 11-13=-300/4634
WEBS 4-19=0/1236, 4-18=-1495/82, 5-18=0/888, 5-16=-1132/113, 6-16=-14/817, 7-15=-16/816, 8-15=-1135/116, 8-14=0/890, 9-14=-1494/88, 9-13=0/1236

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 17-0-0, Zone2 17-0-0 to 21-2-15, Zone1 21-2-15 to 21-8-0, Zone2 21-8-0 to 25-10-15, Zone1 25-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

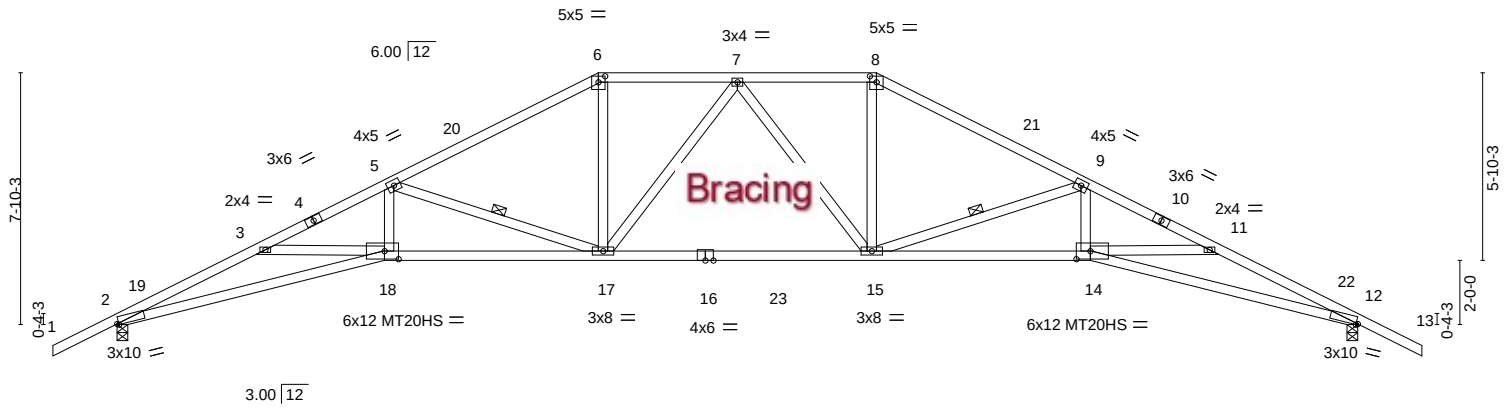
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A04	Hip	1	1	T33060204
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:09 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-hp9ahVSpSa4ZOhRx7bO05pMieEiiObvLexdGCrzh?HW

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

Scale = 1:71.8



8-4-0	15-0-0	23-8-0	30-4-0	38-8-0
8-4-0	6-8-0	8-8-0	6-8-0	8-4-0

Plate Offsets (X,Y)-- [2:0-0-10,Edge], [6:0-2-8,0-2-4], [8:0-2-8,0-2-4], [12:0-0-10,Edge], [14:0-5-4,0-3-0], [18:0-5-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.54	15-17	>844	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-1.01	15-17	>456	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.63	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.23	14-15	>999	240	Weight: 202 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	4-6,8-10: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP M 31 or 2x4 SP SS
WEBS	2x4 SP No.2

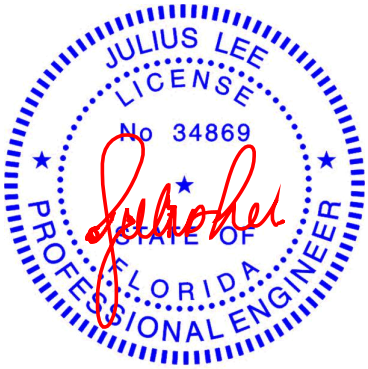
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-1-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-17, 9-15

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

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5688/359, 3-5=-5621/306, 5-6=-3182/221, 6-7=-2815/230, 7-8=-2777/234, 8-9=-3146/225, 9-11=-5514/319, 11-12=-5589/370
BOT CHORD 2-18=-263/5232, 17-18=-164/5000, 15-17=-40/2910, 14-15=-188/4803, 12-14=-287/5035
WEBS 5-18=0/1498, 5-17=-2280/174, 6-17=0/1095, 7-17=-309/56, 7-15=-309/56, 8-15=0/1108, 9-15=-2222/181, 9-14=0/1451

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 15-0-0, Zone2 15-0-0 to 19-4-0, Zone1 19-4-0 to 23-8-0, Zone2 23-8-0 to 27-10-15, Zone1 27-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 12=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A05	Hip	1	1	T33060205

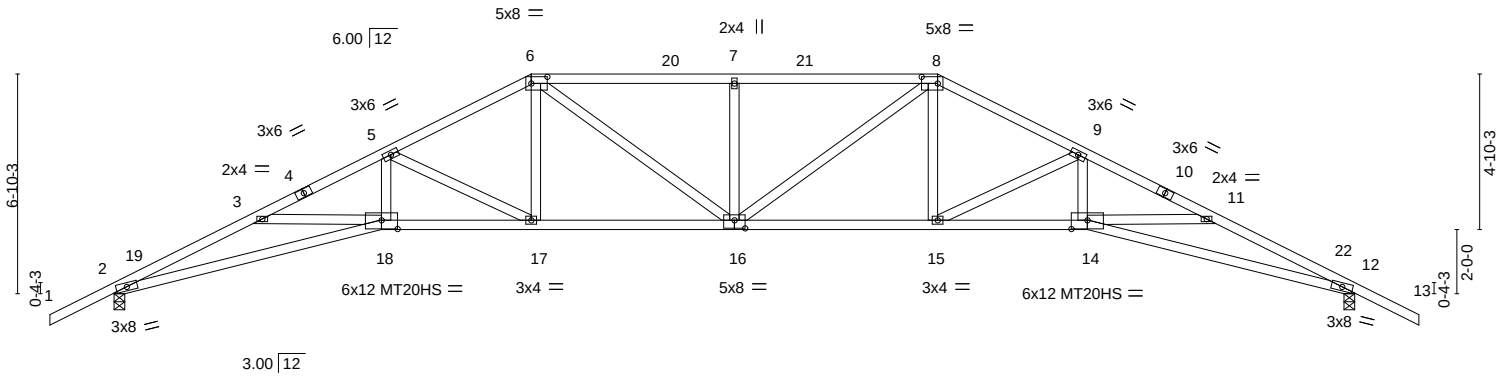
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:10 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-A0jyvqSSDtCQ0r07hIvFd1vsoe_Y7_NUtaNpkIzh?HV

-2-0-0	4-7-7	8-4-0	13-0-0	19-4-0	25-8-0	30-4-0	34-0-9	38-8-0	40-8-0
2-0-0	4-7-7	3-8-9	4-8-0	6-4-0	6-4-0	4-8-0	3-8-9	4-7-7	2-0-0

Scale = 1:71.8



8-4-0	13-0-0	19-4-0	25-8-0	30-4-0	38-8-0
8-4-0	4-8-0	6-4-0	6-4-0	4-8-0	8-4-0

Plate Offsets (X,Y)-- [6:0-6-0,0-2-8], [8:0-6-0,0-2-8], [14:0-6-0,0-3-4], [16:0-4-0,0-3-0], [18:0-6-0,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.47	16	>970	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.96	16-17	>481	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.64	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.26	16	>999	240	Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-18,12-14: 2x4 SP M 31 or 2x4 SP SS
WEBS 2x4 SP No.2

BRACING-

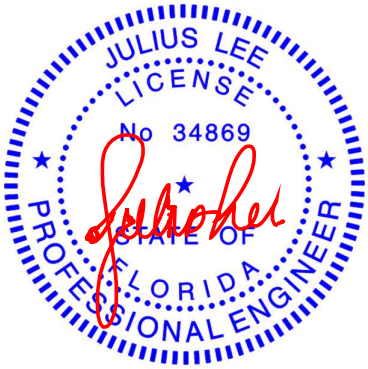
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-4-0, 12=0-4-0
Max Horz 2=124(LC 11)
Max Uplift 2=-128(LC 12), 12=-128(LC 12)
Max Grav 2=1663(LC 1), 12=1663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5157/374, 3-5=-4992/298, 5-6=-3252/239, 6-7=-3259/268, 7-8=-3259/268, 8-9=-3252/245, 9-11=-4992/310, 11-12=-5156/386
BOT CHORD 2-18=-278/4628, 17-18=-153/4355, 16-17=-38/2880, 15-16=-50/2880, 14-15=-175/4355, 12-14=-300/4628
WEBS 5-18=0/1238, 5-17=-1672/133, 6-17=0/853, 6-16=-46/617, 7-16=-426/125, 8-16=-46/617, 8-15=0/853, 9-15=-1672/139, 9-14=0/1238

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 25-8-0, Zone2 25-8-0 to 30-2-4, Zone1 30-2-4 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 12=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

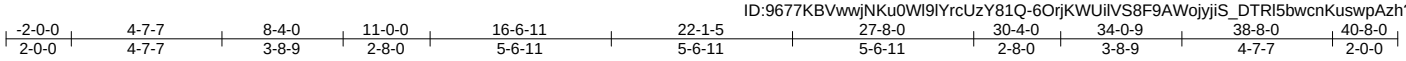
February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A06	Hip	1	1	T33060206

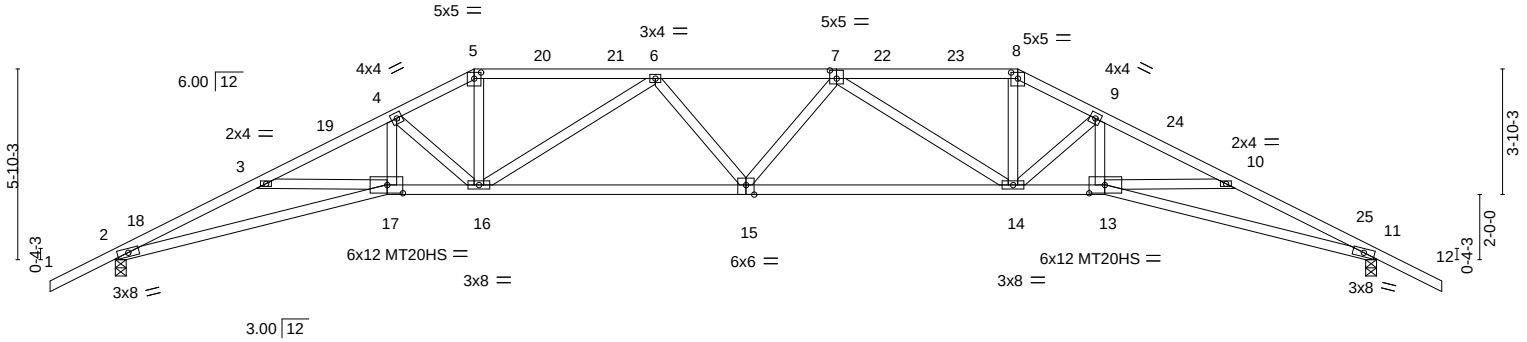
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:12 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-6OrjKWUilVS8F9AWojyjiS_DTRl5bwcnKuswpAzh?HT



Scale = 1:70.6



8-4-0 11-0-0 19-4-0 27-8-0 30-4-0 38-8-0
8-4-0 2-8-0 8-4-0 8-4-0 2-8-0 8-4-0

Plate Offsets (X,Y)-- [5:0-2-8,0-2-4], [7:0-2-8,0-3-0], [8:0-2-8,0-2-4], [13:0-5-12,0-3-0], [15:0-3-0,Edge], [17:0-5-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.51	15	>895	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-1.05	15-16	>437	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.63	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.28	15	>999	240	Weight: 195 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

TOP CHORD 2-3=-5163/376, 3-4=-4978/284, 4-5=-3747/248, 5-6=-3380/236, 6-7=-4100/266, 7-8=-3379/243, 8-9=-3747/256, 9-10=-4978/296, 10-11=-5163/388
BOT CHORD 2-17=-279/4634, 16-17=-134/4340, 15-16=-140/4033, 14-15=-139/4033, 13-14=-158/4340, 11-13=-303/4634
WEBS 4-17=-7/1206, 4-16=-1341/107, 5-16=-46/1432, 6-16=-892/94, 7-14=-892/94, 8-14=-50/1432, 9-14=-1341/112, 9-13=-13/1206

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 27-8-0, Zone2 27-8-0 to 31-10-15, Zone1 31-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 11=128.

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A07	Hip	1	1	T33060207

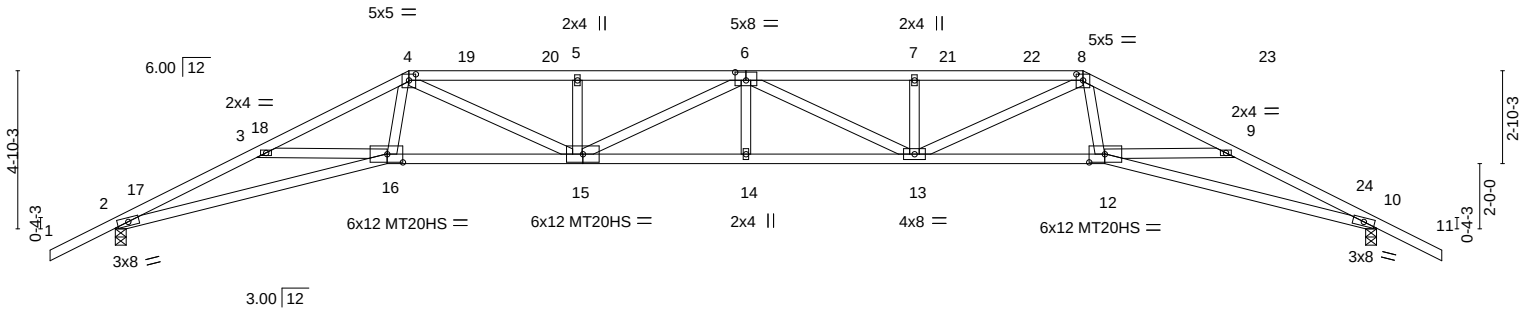
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:14 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-2nyTlCWyH6irVTKuw8_Bnt3UqFLW3v?4oCL1u3zh?HR

-2-0-0	4-7-7	9-0-0	14-2-0	19-4-0	24-6-0	29-8-0	34-0-9	38-8-0	40-8-0
2-0-0	4-7-7	4-4-9	5-2-0	5-2-0	5-2-0	5-2-0	4-4-9	4-7-7	2-0-0

Scale = 1:70.6



8-4-0	14-2-0	19-4-0	24-6-0	30-4-0	38-8-0
8-4-0	5-10-0	5-2-0	5-2-0	5-10-0	8-4-0

Plate Offsets (X,Y)-- [4:0-2-8,0-2-4], [6:0-4-0,0-3-0], [8:0-2-8,0-2-4], [12:0-5-12,0-3-0], [16:0-5-12,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	-0.72	14	>638	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-1.44	14	>319	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.76	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.40	14	>999	240	Weight: 187 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP M 31 or 2x4 SP SS *Except*
15-16: 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

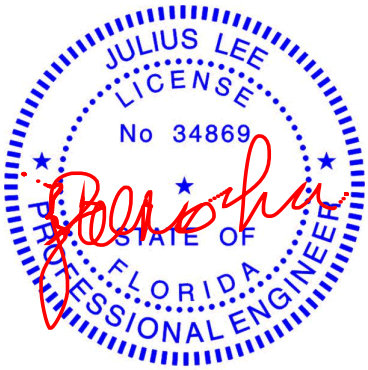
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
2-2-0 oc bracing: 15-16.

REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=91(LC 11)
Max Uplift 2=-128(LC 12), 10=-128(LC 12)
Max Grav 2=1663(LC 1), 10=1663(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5178/391, 3-4=-4945/261, 4-5=-5326/339, 5-6=-5326/339, 6-7=-5323/337, 7-8=-5323/337, 8-9=-4946/273, 9-10=-5178/402
BOT CHORD 2-16=-295/4650, 15-16=-109/4048, 14-15=-218/5739, 13-14=-218/5739, 12-13=-128/4048, 10-12=-317/4649
WEBS 4-16=0/1308, 4-15=-96/1524, 5-15=-324/98, 6-15=-544/28, 6-13=-547/27, 7-13=-323/98, 8-13=-97/1519, 8-12=0/1309

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-8-0, Zone2 29-8-0 to 33-10-15, Zone1 33-10-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128, 10=128.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

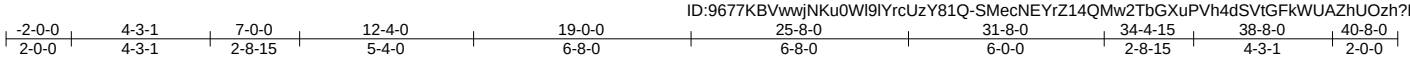
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A08	Hip Girder	1	2	T33060208

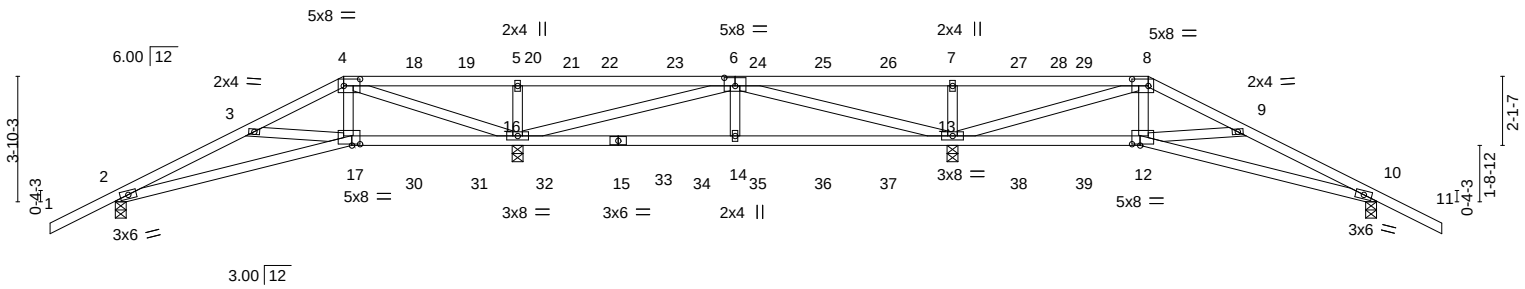
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:17 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-SMecNEYrZ14QMw2TbGXuPVh4dSVtGFkWUAZhUOzh?HO



Scale = 1:70.6



7-3-0 12-4-0 19-0-0 25-8-0 31-5-0 38-8-0
7-3-0 5-1-0 6-8-0 6-8-0 5-9-0 7-3-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.05	10-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.12	10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	14	>999	240	Weight: 363 lb	FT = 20%

LUMBER-

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

BRACING-

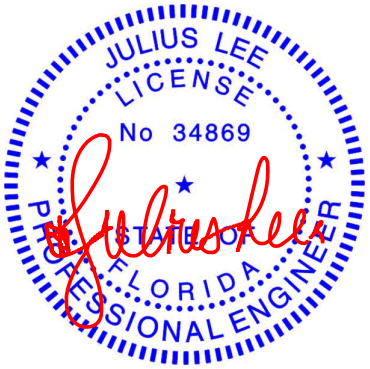
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 0-4-0.
(lb) - Max Horz 2=-74(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 16=-131(LC 8), 13=-139(LC 8)
Max Grav All reactions 250 lb or less at joint(s) except 2=663(LC 19), 10=728(LC 20), 16=2456(LC 19), 13=2514(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1328/30, 3-4=-1035/0, 4-5=-8/1133, 5-6=-8/1132, 6-7=-1/1128, 7-8=-1/1129, 8-9=-1307/0, 9-10=-1566/32
BOT CHORD 2-17=0/1158, 16-17=0/988, 14-16=-81/1055, 13-14=-81/1055, 12-13=0/1253, 10-12=0/1376
WEBS 3-17=-296/137, 4-17=0/808, 4-16=-2240/0, 5-16=-825/253, 6-16=-2265/184, 6-14=0/640, 6-13=-2263/185, 7-13=-867/267, 8-13=-2488/0, 8-12=0/882, 9-12=-285/158

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
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 ; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 16=131, 13=139.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: February 28,2024

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) 252 lb down and 172 lb up at 7-0-0, 122 lb down and 83 lb up at 9-0-12, 122 lb down and 83 lb up at 11-0-12, 127 lb down and 85 lb up at 13-0-12, 127 lb down and 85 lb up at 15-0-12, 127 lb down and 85 lb up at 17-0-12, 127 lb down and 85 lb up at 19-0-12, 127 lb down and 85 lb up at 19-7-4, 127 lb down and 85 lb up at 21-7-4, 127 lb down and 85 lb up at 23-7-4, 122 lb down and 83 lb up at 25-7-4, 122 lb down and 83 lb up at 27-7-4, and 122 lb down and 83 lb up at 29-7-4, and 252 lb down and 172 lb up at 31-8-0 on top chord, and 312 lb down at 7-3-0, 95 lb down at 9-0-12, 95 lb down at 11-0-12, 97 lb down at 13-0-12, 97 lb down at 15-0-12, 97 lb down at 17-0-12, 97 lb down at 19-0-12, 97 lb down at 19-7-4, 97 lb down at 21-7-4, 97 lb down at 23-7-4, 95 lb down at 25-7-4, 95 lb down at 27-7-4, and 95 lb down at 29-7-4, and 312 lb down at 31-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-8=-60, 8-11=-60, 2-17=-20, 12-17=-20, 10-12=-20
   Concentrated Loads (lb)
   Vert: 4=-205(B) 8=-205(B) 17=-262(B) 12=-262(B) 6=-127(B) 14=-49(B) 7=-122(B) 13=-48(B) 18=-122(B) 20=-122(B) 21=-127(B) 22=-127(B) 23=-127(B) 24=-127(B) 25=-127(B) 26=-127(B) 27=-122(B) 29=-122(B) 30=-48(B) 31=-48(B) 32=-49(B) 33=-49(B) 34=-49(B) 35=-49(B) 36=-49(B) 37=-49(B) 38=-48(B) 39=-48(B)

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A09	ROOF SPECIAL	1	1	T33060209

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:19 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-PlmMovZ55eL8bECsjhaMUwnQNG66k8JpxU2nZGzh?HM

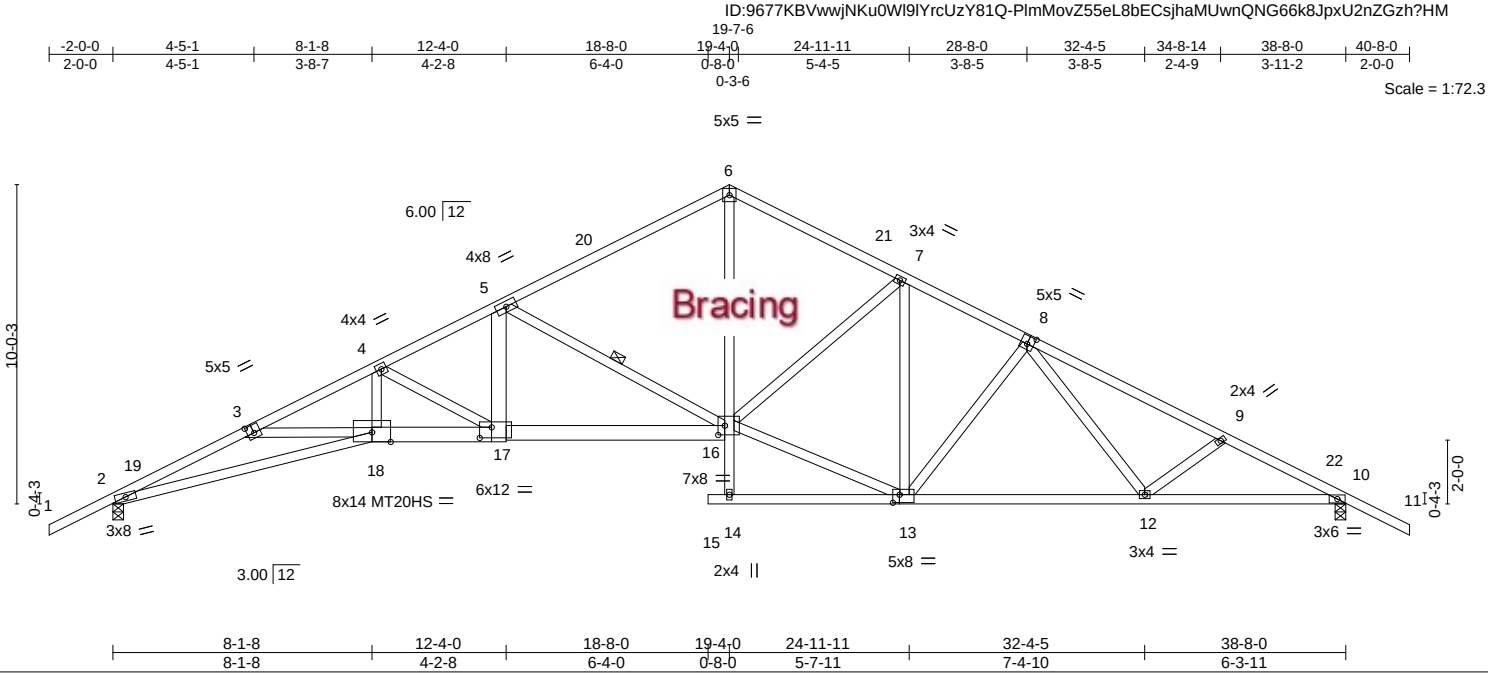


Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [8:0-2-8,0-3-0], [13:0-2-8,0-3-0], [16:0-2-8,0-3-8], [17:0-4-8,0-4-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.31	17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.63	16-17	>726	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.35	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.17	17	>999	240	Weight: 239 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
2-18: 2x4 SP M 31 or 2x4 SP SS, 17-18,16-17: 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*
5-17: 2x6 SP No.2

BRACING-

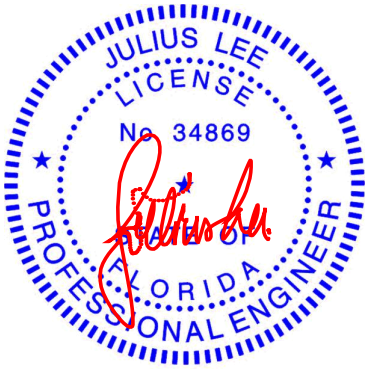
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16

REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=-176(LC 10)
Max Uplift 2=-125(LC 12), 10=-125(LC 12)
Max Grav 2=1669(LC 1), 10=1668(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5184/337, 3-4=-5014/241, 4-5=-3545/240, 5-6=-2289/224, 6-7=-2220/223, 7-8=-2245/227, 8-9=-2780/194, 9-10=-2969/217
BOT CHORD 2-18=-239/4652, 17-18=-95/4387, 16-17=-55/3148, 12-13=-76/2228, 10-12=-143/2576
WEBS 4-18=0/1158, 4-17=-1418/45, 5-17=0/869, 6-16=-59/1565, 13-16=-27/2070, 8-13=-444/86, 8-12=0/386, 5-16=-1370/144

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=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 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=125, 10=125.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A10	Roof Special	1	1	T33060210

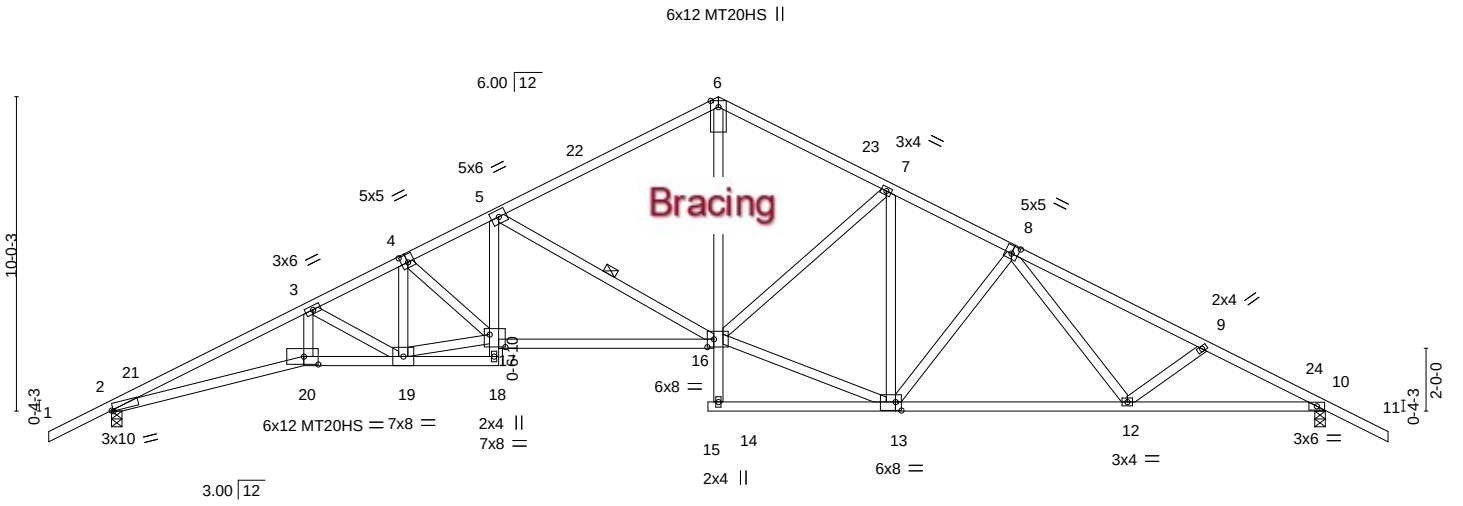
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:20 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-txKk?FajsyT?DOn2GO5b18JXdgPqTYtyA8oL5jzh?HL

-2-0-0	6-1-8	9-3-9	12-4-0	19-0-0	19-4-0	24-11-11	28-8-0	34-8-14	38-8-0	40-8-0
2-0-0	6-1-8	3-2-1	3-0-8	6-8-0	0-4-0	5-7-11	3-8-5	6-0-14	3-11-2	2-0-0

Scale = 1:73.4



6-1-8	9-3-9	12-4-0	19-0-0	24-11-11	32-4-5	38-8-0
6-1-8	3-2-1	3-0-8	6-8-0	5-11-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [2:0-0-10,Edge], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [13:0-2-4,0-3-4], [16:0-2-8,0-3-0], [17:0-6-0,0-4-12], [20:0-5-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.32	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.72	16-17	>635	240	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.36	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.18	16-17	>999	240	Weight: 233 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-4: 2x4 SP M 31 or 2x4 SP SS
BOT CHORD	2x4 SP No.2 *Except*
	2-20,18-20: 2x4 SP M 31 or 2x4 SP SS
WEBS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	2-2-0 oc bracing: 16-17.
	10-0-0 oc bracing: 14-16
WEBS	1 Row at midpt 5-16

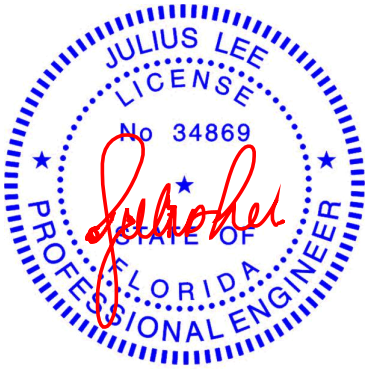
REACTIONS. (size) 2=0-4-0, 10=0-4-0
Max Horz 2=-176(LC 10)
Max Uplift 2=-126(LC 12), 10=-126(LC 12)
Max Grav 2=1667(LC 1), 10=1667(LC 1)

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

TOP CHORD	2-3=-5299/281, 3-4=-3688/238, 4-5=-3562/239, 5-6=-2251/224, 6-7=-2211/224, 7-8=-2250/230, 8-9=-2775/196, 9-10=-2965/219
BOT CHORD	2-20=-176/4760, 19-20=-164/4505, 5-17=0/1013, 16-17=-61/3235, 6-16=-62/1550, 12-13=-78/2225, 10-12=-145/2573
WEBS	3-20=0/1232, 3-19=-1442/113, 17-19=-12/3118, 5-16=-1514/152, 8-13=-441/86, 8-12=0/383, 13-16=-23/2065

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=126, 10=126.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A11	Roof Special	1	1	T33060211

Job Reference (optional)

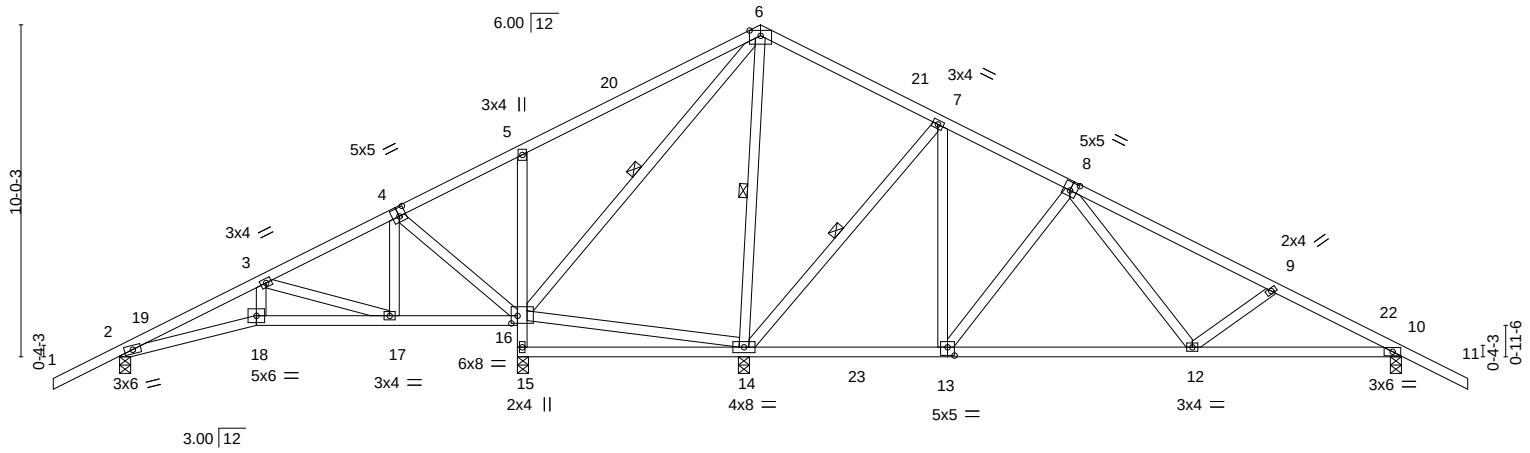
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:22 2024 Page 1

ID:9677KBVwwjNKu0Wl9IYrcUzY81Q-pJRVQxczOZjjShxROp736ZPw1TCbxWaFeSHSAbzh?HJ

-2-0-0	4-1-8	8-3-8	12-0-0	19-4-0	24-11-11	28-8-0	34-8-13	38-8-0	40-8-0
2-0-0	4-1-8	4-2-0	3-8-8	7-4-0	5-7-11	3-8-5	6-0-14	3-11-3	2-0-0

Scale = 1:69.5

Bracing



4-1-8	8-3-8	12-0-0	12-2-0	18-10-0	24-11-11	32-4-5	38-8-0
4-1-8	4-2-0	3-8-8	0-2-0	6-8-0	6-1-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [13:0-2-8,0-3-0], [16:0-2-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.15	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.02	12-13	>999	240	Weight: 241 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 5-8-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-16, 6-14, 7-14

REACTIONS. All bearings 0-4-0.

(lb) - Max Horz 2=-176(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 14 except 10=-109(LC 12)

Max Grav All reactions 250 lb or less at joint(s) except 2=418(LC 23), 15=910(LC 17), 14=1715(LC 18), 10=772(LC 18)

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

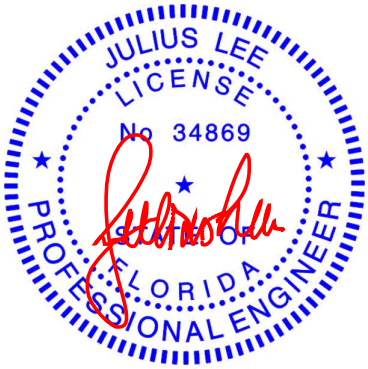
TOP CHORD 2-3=-491/0, 3-4=-14/336, 4-5=0/763, 5-6=0/735, 6-7=0/570, 8-9=-858/95, 9-10=-1058/119

BOT CHORD 2-18=-43/459, 17-18=-41/403, 16-17=-276/123, 15-16=-834/133, 5-16=-406/175, 12-13=0/399, 10-12=-57/896

WEBS 3-17=-580/43, 4-17=0/329, 4-16=-491/21, 14-16=-548/109, 6-14=-740/44, 7-14=-868/110, 7-13=0/672, 8-13=-512/86, 8-12=0/515, 9-12=-276/112

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 14 except (jt=lb) 10=109.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

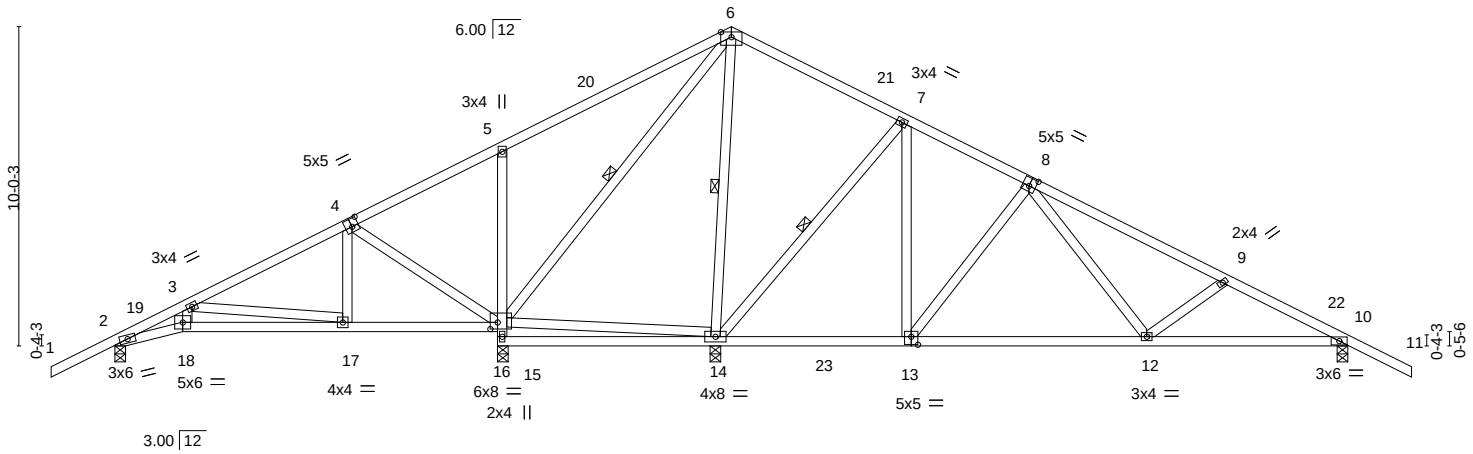
Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A12	Roof Special	1	1	T33060212
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:23 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-HW?tdHcb9tra4rWdyXeIfmx5qtYqg_mOs60?i1zh?HI

-2-0-0	2-1-8	7-3-8	12-0-0	19-4-0	24-11-11	28-8-0	34-8-14	38-8-0	40-8-0
2-0-0	2-1-8	5-2-0	4-8-8	7-4-0	5-7-11	3-8-5	6-0-14	3-11-2	2-0-0

Scale = 1:72.3

Bracing



2-1-8	7-3-8	12-0-0	12-2-0	18-10-0	24-11-11	32-4-5	38-8-0
2-1-8	5-2-0	4-8-8	0-2-0	6-8-0	6-1-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [13:0-2-8,0-3-0], [16:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.15	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S		Wind(LL)	0.02	12-13	>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

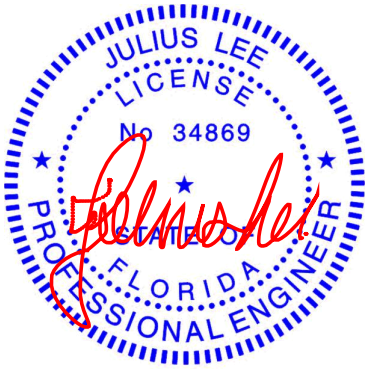
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-8-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-16, 6-14, 7-14

REACTIONS. All bearings 0-4-0.
(lb) - Max Horz 2=-176(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15 except 10=-108(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=408(LC 23), 15=973(LC 17), 14=1664(LC 18), 10=773(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-592/0, 4-5=-2/756, 5-6=0/726, 6-7=0/564, 8-9=-860/94, 9-10=-1060/118
BOT CHORD 2-18=-3/576, 17-18=-13/513, 15-16=-871/154, 5-16=-413/177, 12-13=0/398, 10-12=-56/897
WEBS 3-17=-564/47, 4-17=0/285, 4-16=-570/37, 14-16=-478/85, 6-14=-731/46, 7-14=-868/110, 7-13=0/672, 8-13=-512/86, 8-12=0/515, 9-12=-276/112

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 19-4-0, Zone2 19-4-0 to 23-6-15, Zone1 23-6-15 to 40-8-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15 except (jt=lb) 10=108.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	A13	GABLE	1	1	T33060213
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:26 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-i5h?GJfUSoD8xJECdfC?HPZci4WmtI4rY4FfJMzh?HF

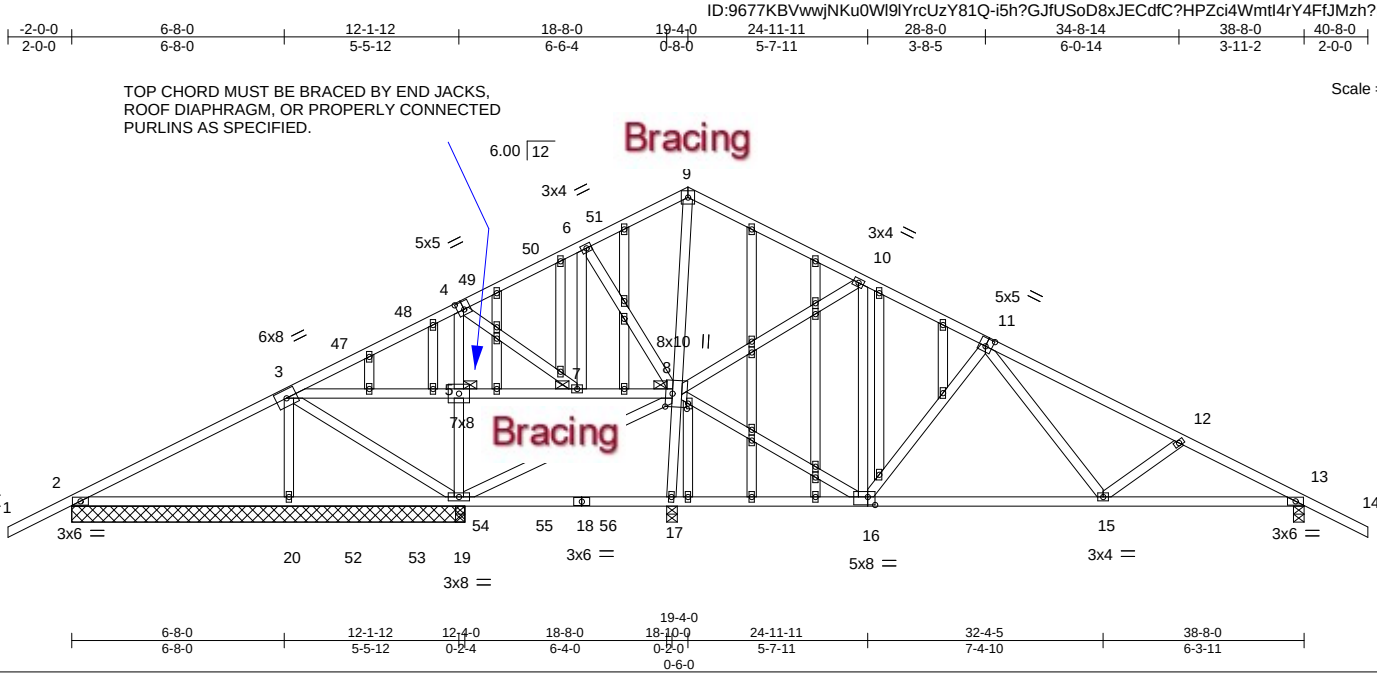


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [8:0-5-0,0-2-8], [11:0-2-8,0-3-0], [16:0-2-12,0-3-0], [22:0-2-0,0-0-7]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.08	17-19	>980	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.16	17-19	>491	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.06	17-19	>999	240	Weight: 327 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

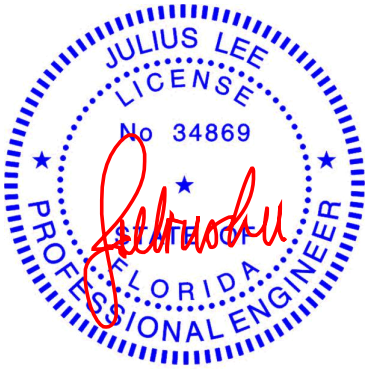
BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-5-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 8, 5, 7

REACTIONS. All bearings 12-4-0 except (jt=length) 17=0-4-0, 13=0-4-0.
(lb) - Max Horz 2=-175(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 2 except 20=-267(LC 7), 19=-278(LC 8), 17=-118(LC 8), 13=-108(LC 27)
Max Grav All reactions 250 lb or less at joint(s) except 2=368(LC 19), 20=1015(LC 19), 19=973(LC 1), 19=973(LC 1), 17=1612(LC 1), 13=761(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-68/324, 4-6=-82/307, 6-9=0/463, 9-10=0/429, 10-11=-275/113, 11-12=-842/71, 12-13=-1061/87
BOT CHORD 17-19=-289/76, 16-17=-276/76, 15-16=0/457, 13-15=-9/896
WEBS 3-20=-504/217, 3-19=-314/81, 5-19=-564/185, 8-10=-581/114, 10-16=-5/303, 11-16=-457/81, 11-15=0/435, 12-15=-273/94, 8-17=-1427/162, 8-9=-614/35, 4-5=-565/181, 6-8=-343/133, 8-16=0/499

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); cantilever left and right exposed ; 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 studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 20=267, 19=278, 17=118, 13=108.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: February 28,2024

Continued on page 2

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 162 lb up at 6-11-9, 152 lb down and 86 lb up at 8-8-12, 152 lb down and 86 lb up at 10-8-12, 152 lb down and 86 lb up at 12-8-12, and 152 lb down and 86 lb up at 14-8-12, and 152 lb down and 86 lb up at 16-8-12 on top chord, and 339 lb down and 163 lb up at 6-8-0, 89 lb down and 37 lb up at 8-8-12, 89 lb down and 37 lb up at 10-8-12, 89 lb down and 37 lb up at 12-8-12, and 89 lb down and 37 lb up at 14-8-12, and 89 lb down and 37 lb up at 16-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

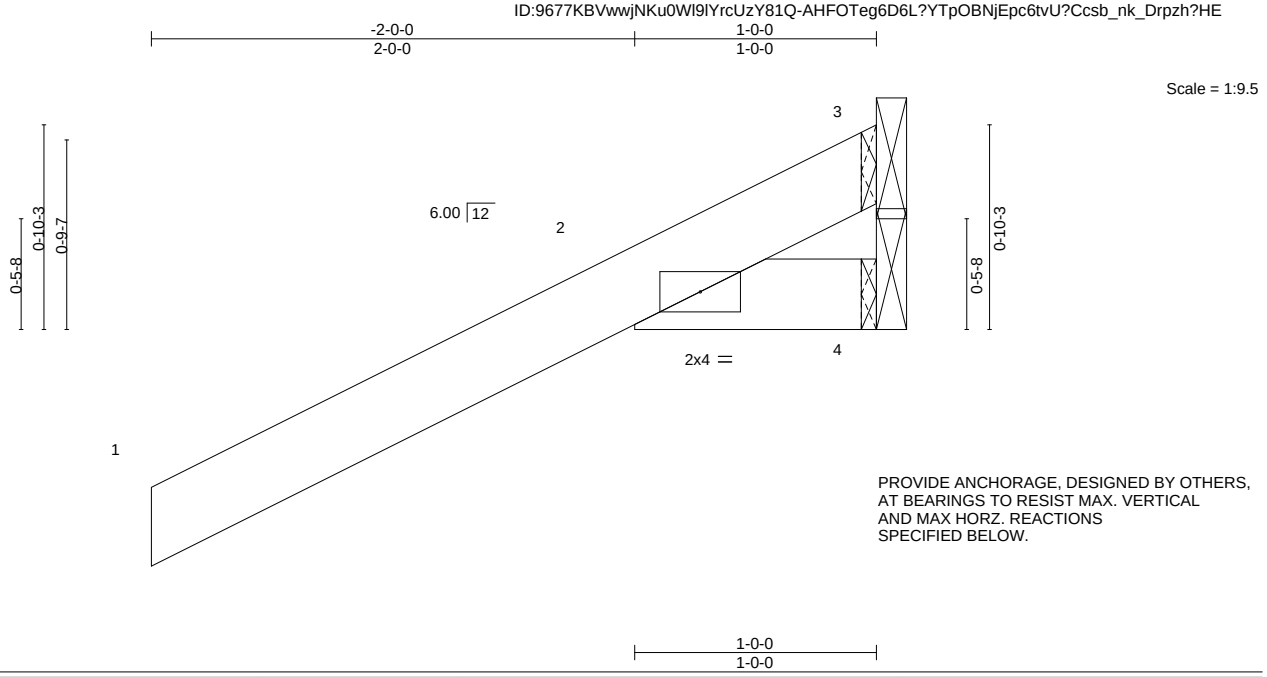
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-9=-60, 9-14=-60, 2-13=-20
   Concentrated Loads (lb)
   Vert: 3=-160(F) 20=-339(F) 47=-112(F) 48=-112(F) 49=-112(F) 50=-112(F) 51=-112(F) 52=-45(F) 53=-45(F) 54=-45(F) 55=-45(F) 56=-45(F)

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C1E	Corner Jack	2	1	T33060214

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:27 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-AHFOTeg6D6L?YTpOBNjEpc6tvU?Ccsb_nk_Drpzh?HE



PROVIDE ANCHORAGE, DESIGNED BY OTHERS, AT BEARINGS TO RESIST MAX. VERTICAL AND MAX HORZ. REACTIONS SPECIFIED BELOW.

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	2	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.00	2	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

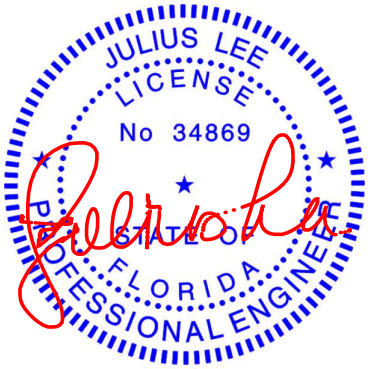
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 4=Mechanical
Max Horz 3=522(LC 1), 4=-522(LC 1)
Max Uplift 3=-77(LC 12)
Max Grav 3=199(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-633/551
BOT CHORD 2-4=-522/713

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 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) 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.



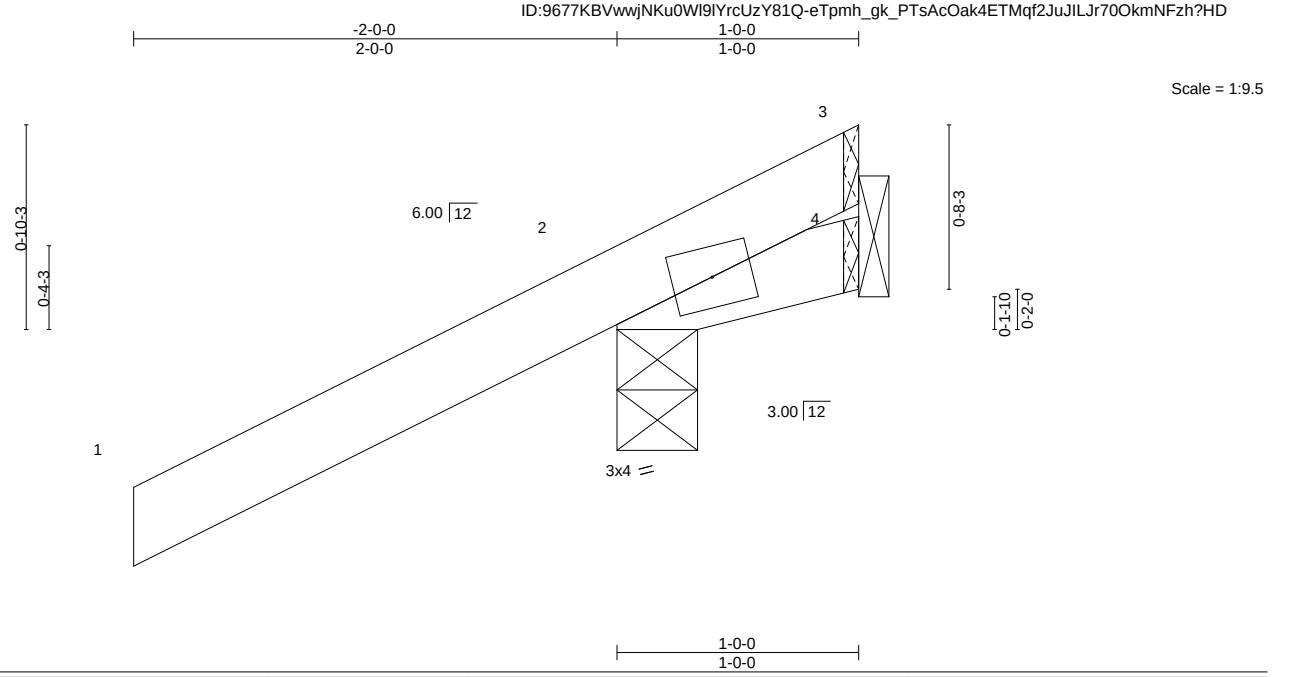
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C1V	Corner Jack	4	1	T33060215
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:28 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-eTpmh_gk_PTsAcOak4ETMqf2JuJILJr70OkmNFzh?HD



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 7 lb	FT = 20%

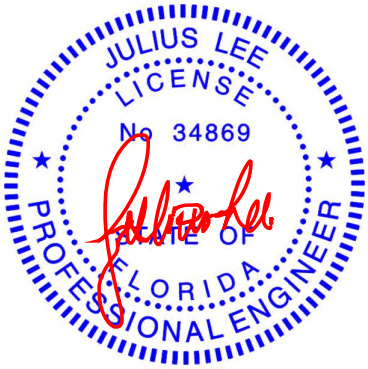
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=218.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C3E	Corner Jack	2	1	T33060216

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:29 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-6gM8uKhMkjbjomznInliu1BCFIhE4m5HF2TJvhzh?HC

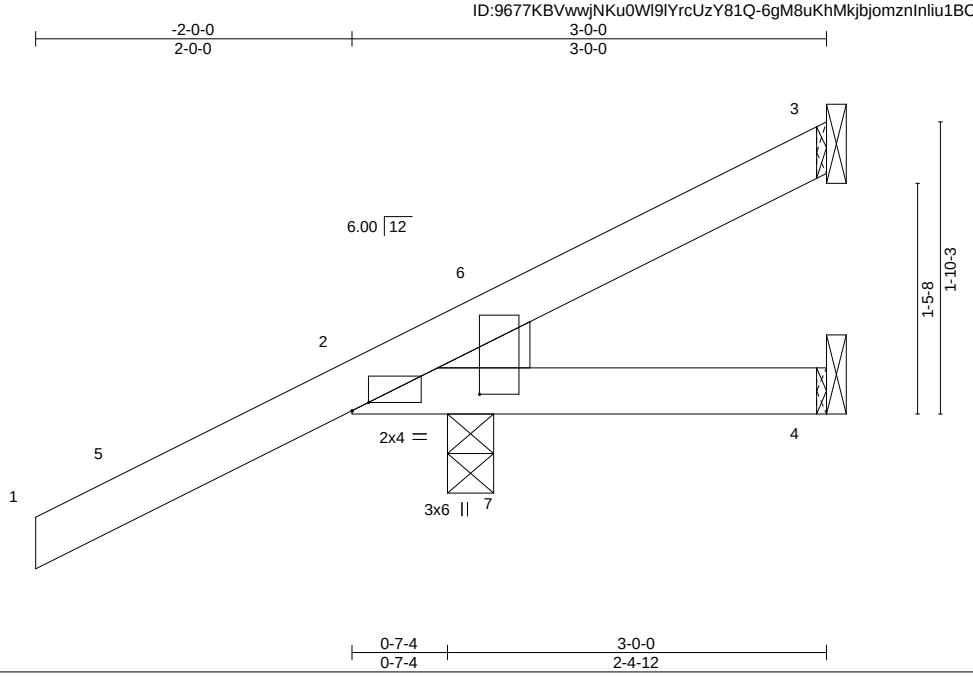


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [2:0-1-4,0-9-11]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2-4	>999	240	Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 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, 4=Mechanical, 2=0-3-8
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 4=-7(LC 8), 2=-109(LC 12)
Max Grav 3=37(LC 17), 4=56(LC 3), 2=290(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=109.

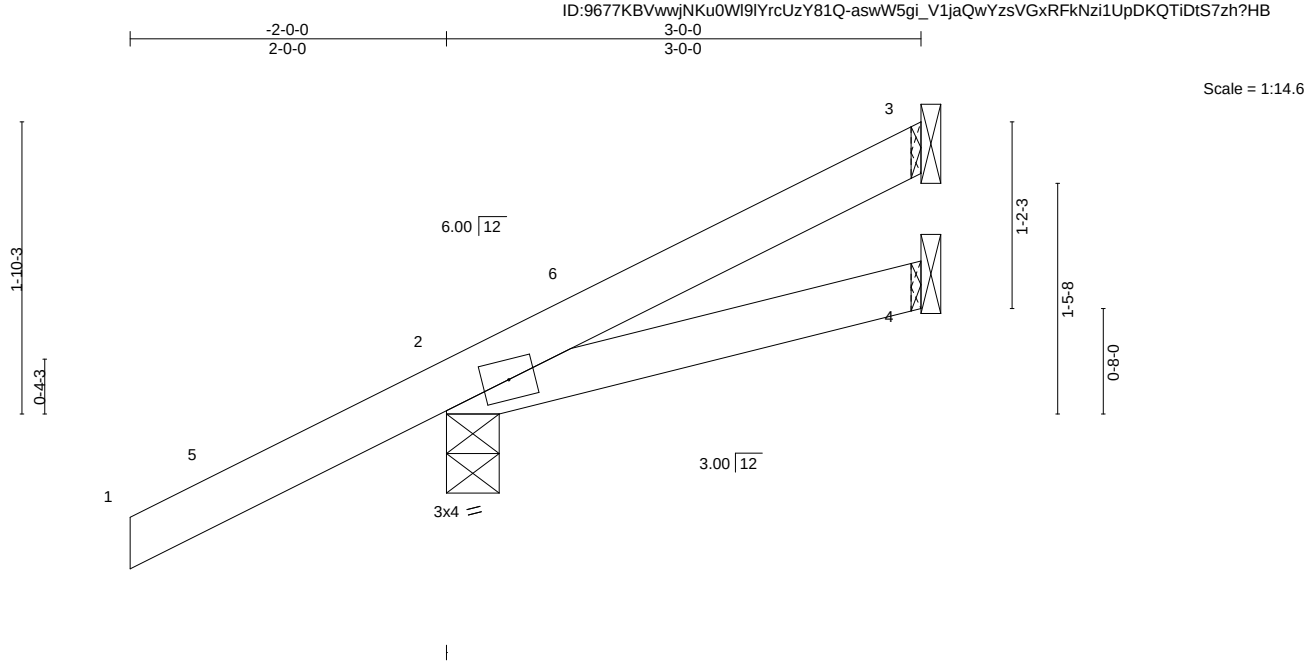
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C3V	Corner Jack	4	1	T33060217
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:30 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-aswW5gi_V1jaQwYzsVGxRFkNzi1UpDKQTiDtS7zh?HB



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.00	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.01	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 13 lb	FT = 20%

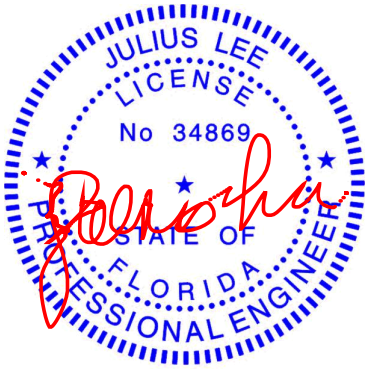
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=71(LC 12)
Max Uplift 3=-14(LC 9), 2=-85(LC 12)
Max Grav 3=35(LC 17), 2=292(LC 1), 4=55(LC 3)

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

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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C5E	Corner Jack	2	1	T33060218

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:31 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-22UuJ0jdGKrR1479QCoA_SGYp5JfYgaaiMyQ_azh?HA

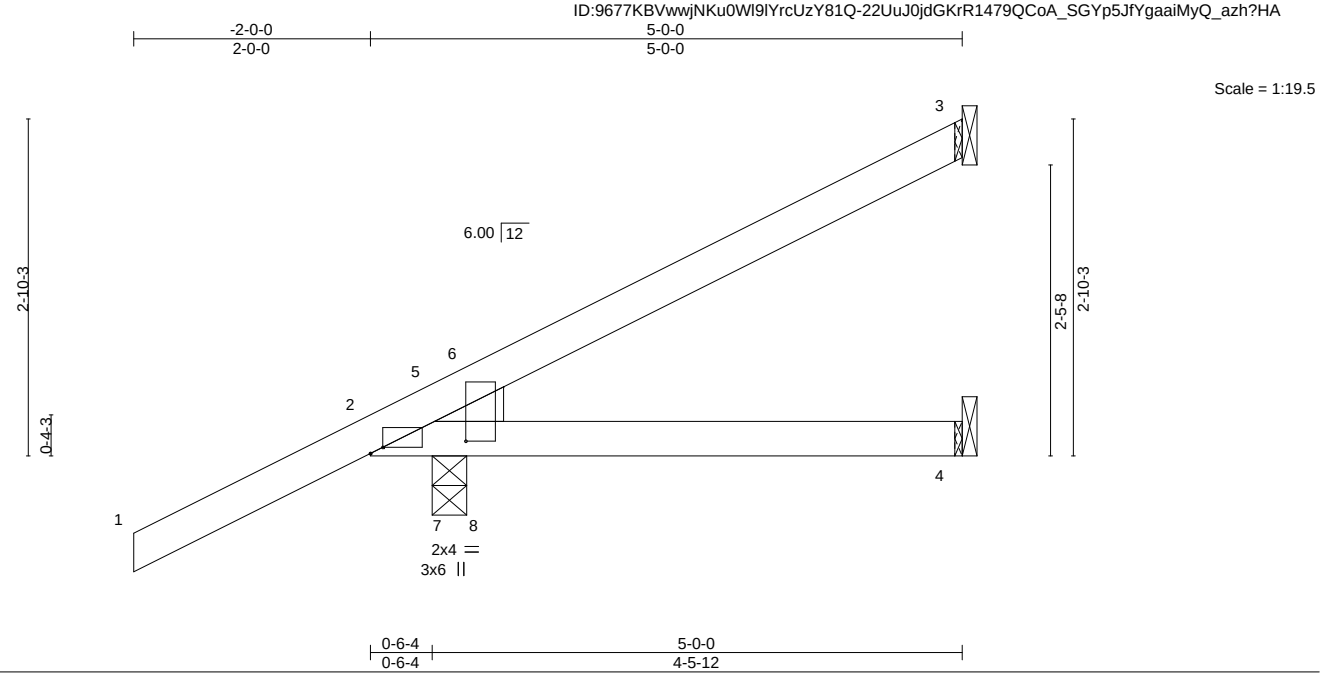


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [2:0-1-4,0-9-11]

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

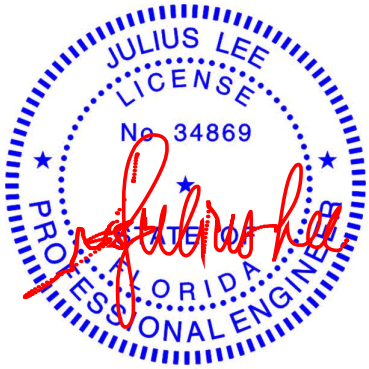
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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=-111(LC 12), 4=-12(LC 8)
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 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=111.



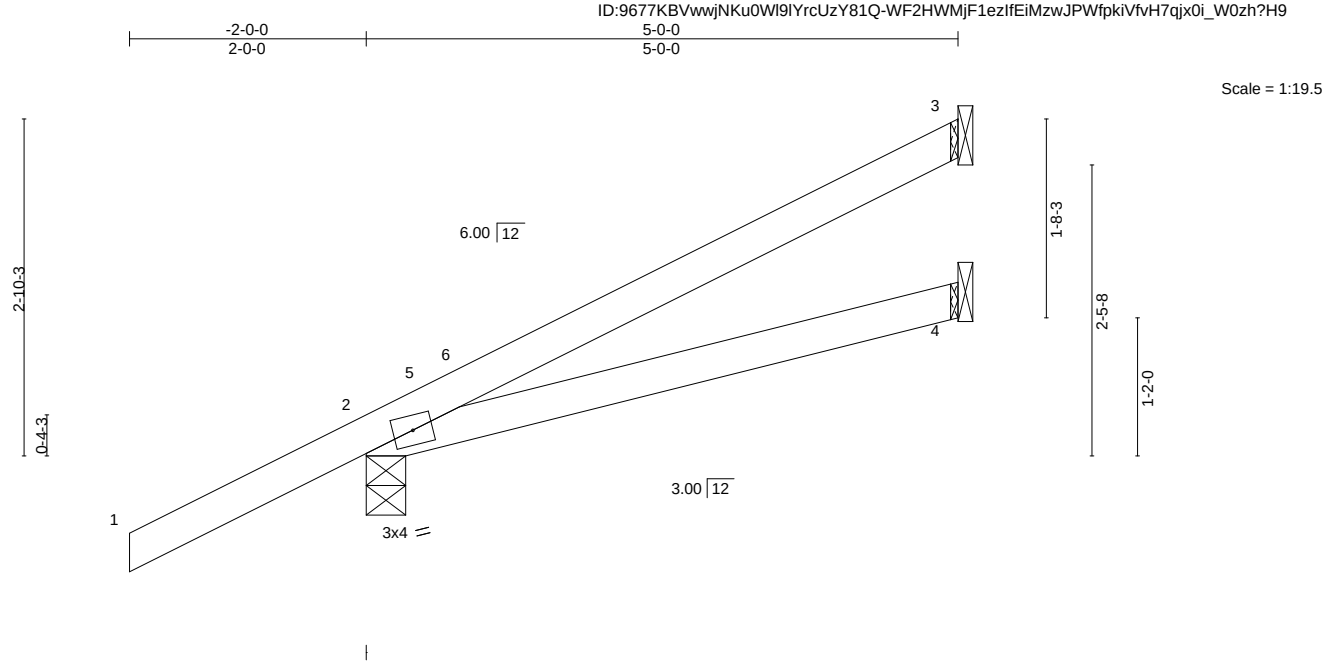
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	C5V	Corner Jack	4	1	T33060219
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:32 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-WF2HWMjF1ezIfEiMzwJPWfpkiVfvH7qjx0i_W0zh?H9



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.03	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.06	2-4	>894	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: 20 lb	FT = 20%

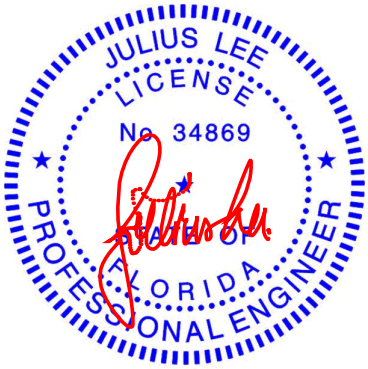
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-4-0, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-36(LC 12), 2=-70(LC 12)
Max Grav 3=114(LC 1), 2=350(LC 1), 4=95(LC 3)

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

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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

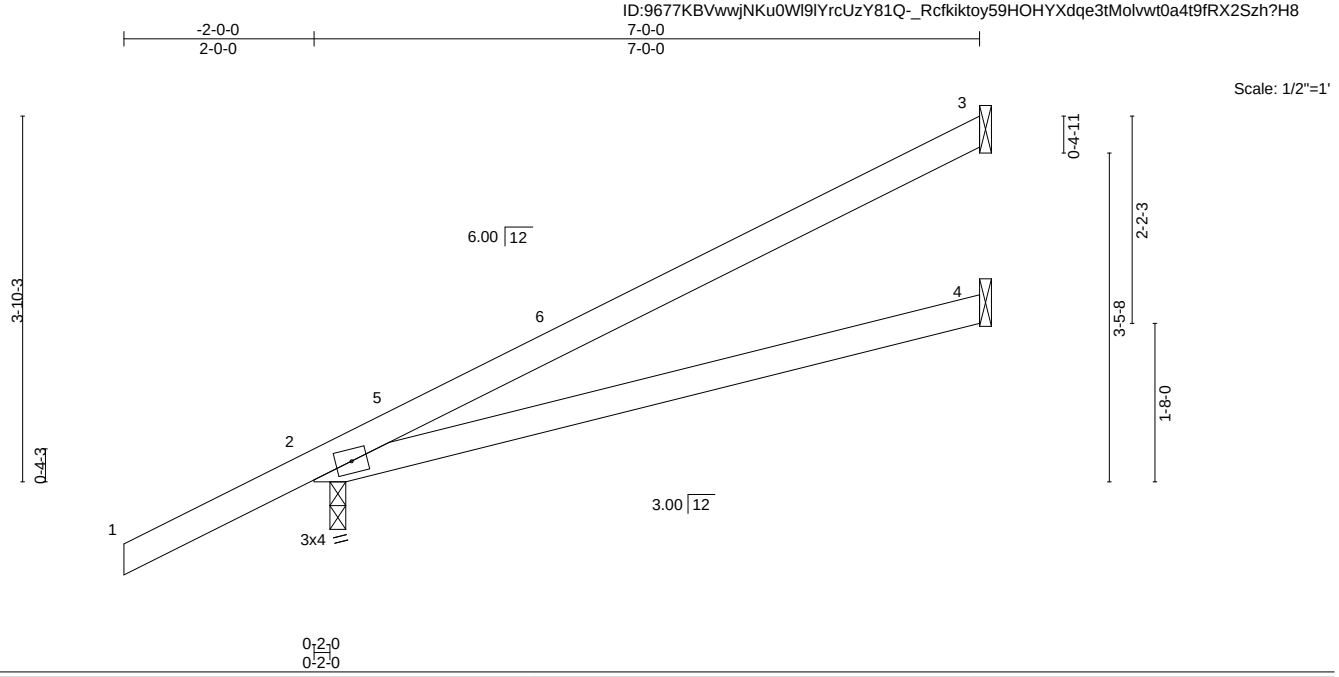
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	E7A	Jack-Open	7	1	T33060220

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:33 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-_Rcfkiktoy59HOHYXdqe3tMolvwt0a4t9fRX2Szh?H8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.14	2-4	>603	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.27	2-4	>301	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%

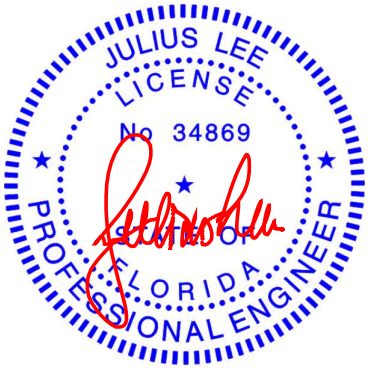
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

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

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



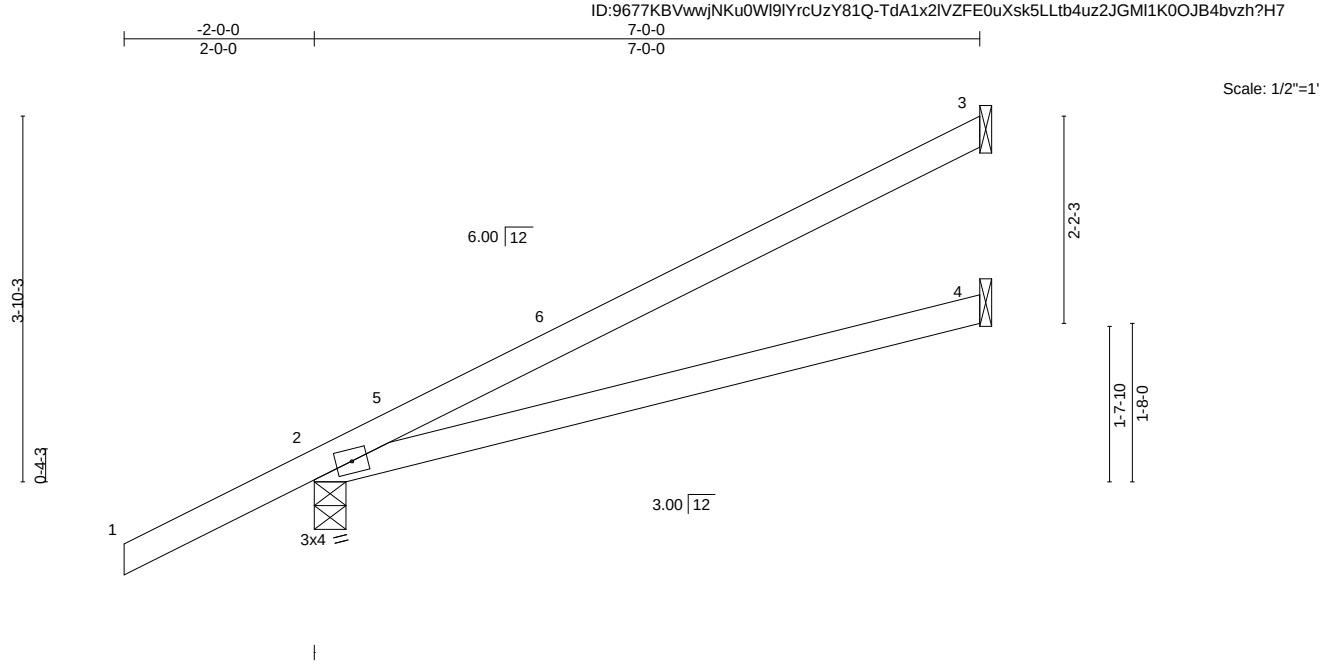
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	E7V	Jack-Open	7	1	T33060221
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:34 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-TdA1x2lVZFE0uXsk5LLtb4uz2JGMl1K0OJB4bvzh?H7



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.13	2-4	>625	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.26	2-4	>313	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 26 lb	FT = 20%

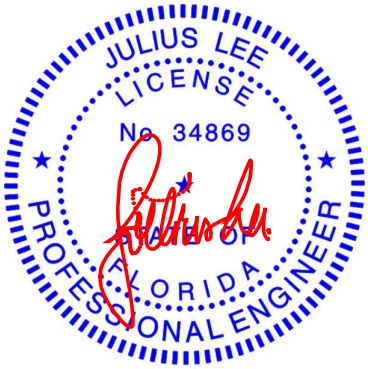
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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=0-4-0, 4=Mechanical
Max Horz 2=118(LC 12)
Max Uplift 3=-63(LC 12), 2=-63(LC 12)
Max Grav 3=182(LC 1), 2=422(LC 1), 4=135(LC 3)

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

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



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	E68	Jack-Open	6	1	T33060222

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:33 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-_Rcfkiktoy59HOHYXdqe3tMqZvx40a4t9fRX2Szh?H8

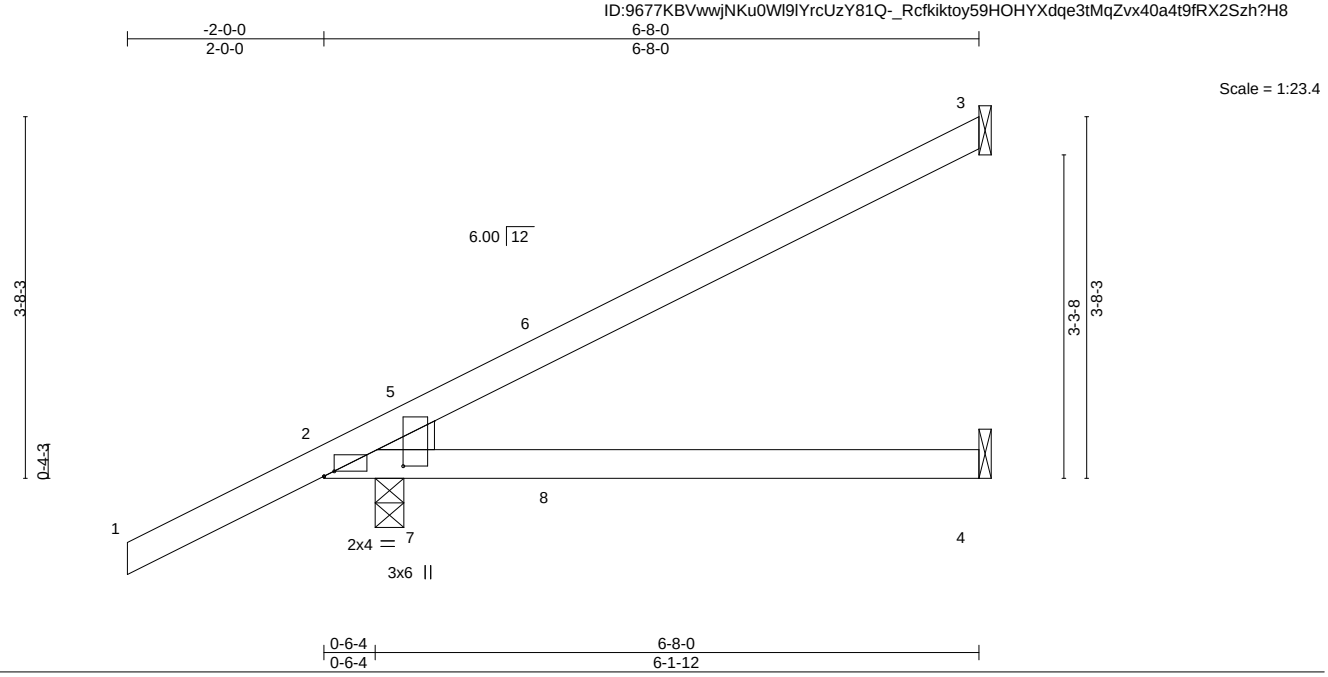


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [2:0-1-4,0-9-11]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.10	2-4	>743	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.21	2-4	>371	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)	0.09	2-4	>861	240	Weight: 25 lb	FT = 20%

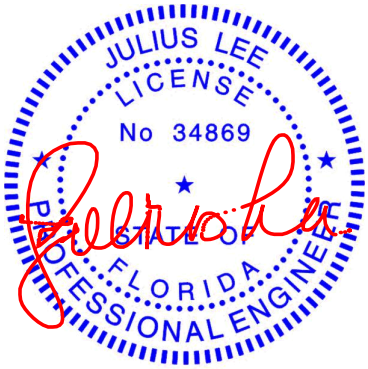
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

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=115(LC 12)
Max Uplift 3=-58(LC 12), 2=-119(LC 12), 4=-17(LC 8)
Max Grav 3=172(LC 1), 2=408(LC 1), 4=129(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 6-7-4 zone; cantilever left 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=119.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	G01	Common	2	1	T33060223

Job Reference (optional)

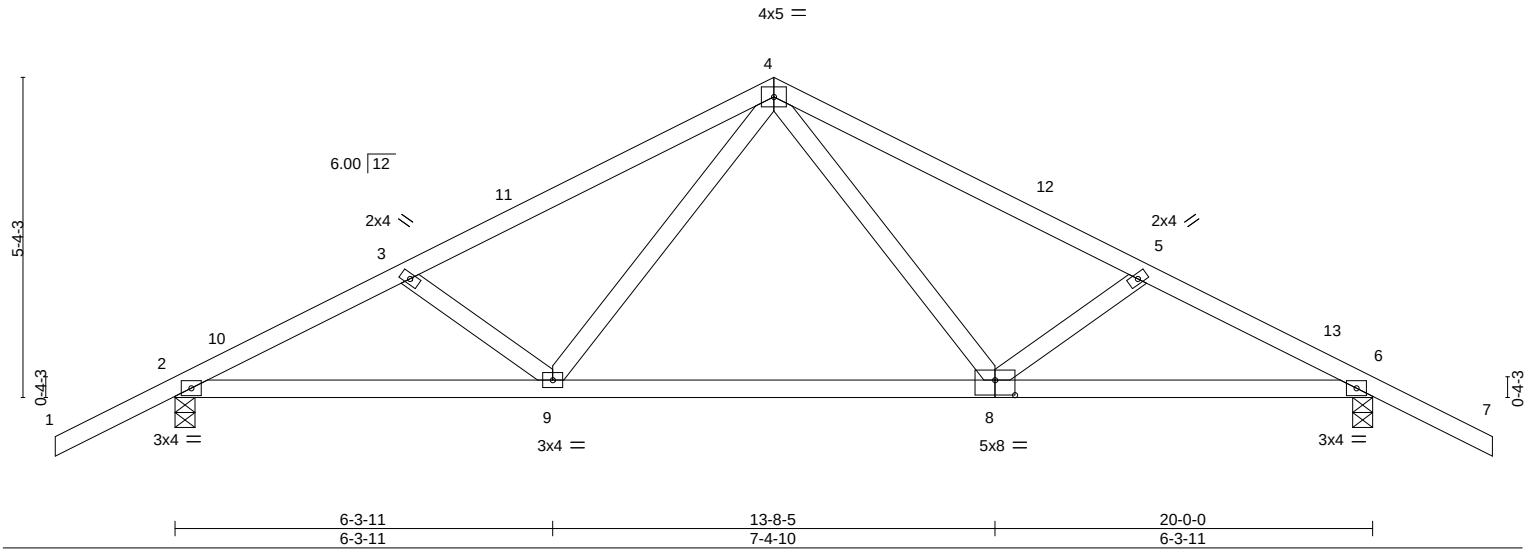
Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:35 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-xqkP9Om7KZMtWhQwf2s68IR7dic4USy9dzwe7Lzh?H6

-2-0-0 3-11-1 10-0-0 16-0-15 20-0-0 22-0-0

2-0-0 3-11-1 6-0-15 6-0-15 3-11-1 2-0-0

Scale = 1:38.5



6-3-11 13-8-5 20-0-0

6-3-11 7-4-10 6-3-11

Plate Offsets (X,Y)-- [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 1.25	TC	0.72	Vert(LL)	-0.05	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.64	Vert(CT)	-0.36	8-9	>648	240		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.17	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-S		Wind(LL)	0.03	8-9	>999	240	Weight: 97 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-4-0, 6=0-4-0
Max Horz 2=-99(LC 10)
Max Grav 2=1138(LC 1), 6=1138(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1916/0, 3-4=-1709/0, 4-5=-1709/0, 5-6=-1916/0
BOT CHORD 2-9=0/1647, 8-9=0/1057, 6-8=0/1647
WEBS 4-8=0/716, 5-8=-263/183, 4-9=0/716, 3-9=-263/183

NOTES-

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

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-7=-60, 2-9=-20, 8-9=-80, 6-8=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-50, 4-7=-50, 2-9=-20, 8-9=-80, 6-8=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-20, 4-7=-20, 2-9=-40, 8-9=-100, 6-8=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Continued on page 2

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

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-2=47, 2-10=32, 4-10=19, 4-12=26, 6-12=19, 6-7=14, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-56, 2-10=-40, 4-10=-27, 4-12=35, 6-12=27, 6-7=23

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=14, 2-11=19, 4-11=26, 4-13=19, 6-13=32, 6-7=47, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-23, 2-11=-27, 4-11=-35, 4-13=27, 6-13=40, 6-7=56

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-8, 2-4=-33, 4-6=-33, 6-7=-29, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-12, 2-4=13, 4-6=-13, 6-7=-9

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=-29, 2-4=-33, 4-6=-33, 6-7=-8, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=9, 2-4=13, 4-6=-13, 6-7=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=9, 6-7=4, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=17, 6-7=13

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=9, 4-6=3, 6-7=15, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-13, 2-4=-17, 4-6=11, 6-7=24

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-4=-28, 4-6=-12, 6-7=-7, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=4, 2-4=8, 4-6=8, 6-7=13

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-28, 6-7=-24, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-13, 2-4=-8, 4-6=-8, 6-7=-4

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=28, 2-4=15, 4-6=15, 6-7=28, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-37, 2-4=-24, 4-6=24, 6-7=37

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-4=3, 4-6=3, 6-7=15, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-24, 2-4=-11, 4-6=11, 6-7=24

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-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, 2-4=-56, 4-6=-44, 6-7=-40, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=3, 2-4=6, 4-6=6, 6-7=10

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, 2-4=-44, 4-6=-56, 6-7=-53, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-10, 2-4=-6, 4-6=-6, 6-7=-3

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, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

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, 2-4=-51, 4-6=-51, 6-7=-47, 2-9=-20, 8-9=-80, 6-8=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3

21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-4=-25, 4-7=-25, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-2=-16, 2-4=16, 4-7=-16

22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=8, 4-7=8, 2-9=-12, 8-9=-72, 6-8=-12
Horz: 1-4=-16, 4-7=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25

Continued on page 3

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-60, 2-9=-20, 8-9=-80, 6-8=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-20, 2-9=-20, 8-9=-80, 6-8=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-50, 2-9=-20, 8-9=-80, 6-8=-20

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	G01X	Common Supported Gable	1	1	T33060224

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:37 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-tCrAZ3nOsAcbl?aJmTubDjWaHWQ7yONS4HPkCDzh?H4

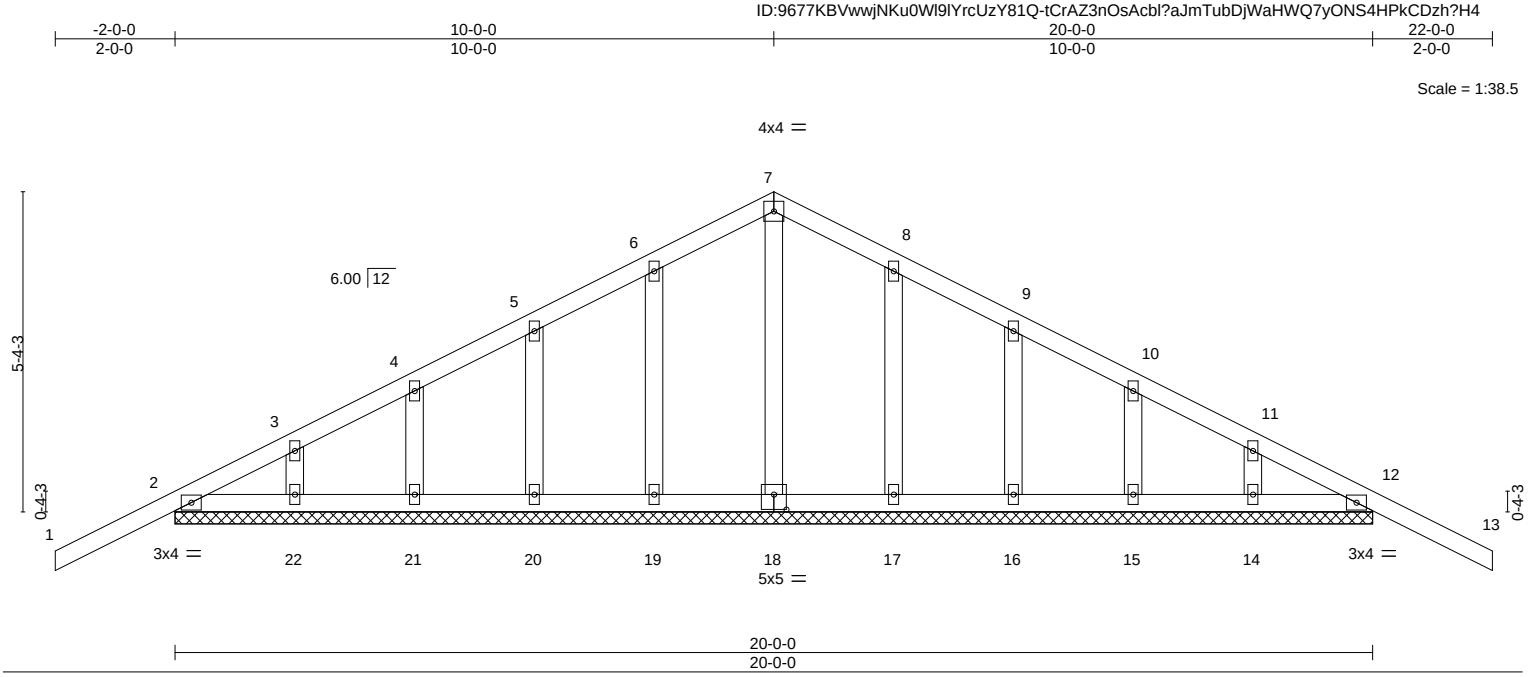


Plate Offsets (X,Y)-- [18:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.04	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S							Weight: 104 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.

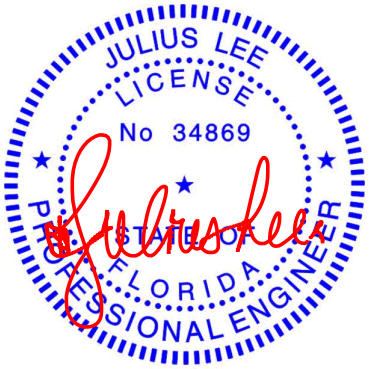
REACTIONS. All bearings 20-0-0.

(lb) - Max Horz 2=-99(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 17, 16, 15, 12
Max Grav All reactions 250 lb or less at joint(s) 18, 19, 20, 21, 22, 17, 16, 15, 14 except 2=264(LC 1), 12=264(LC 1)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 17, 16, 15, 12.



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	G02	COMMON	3	1	T33060225

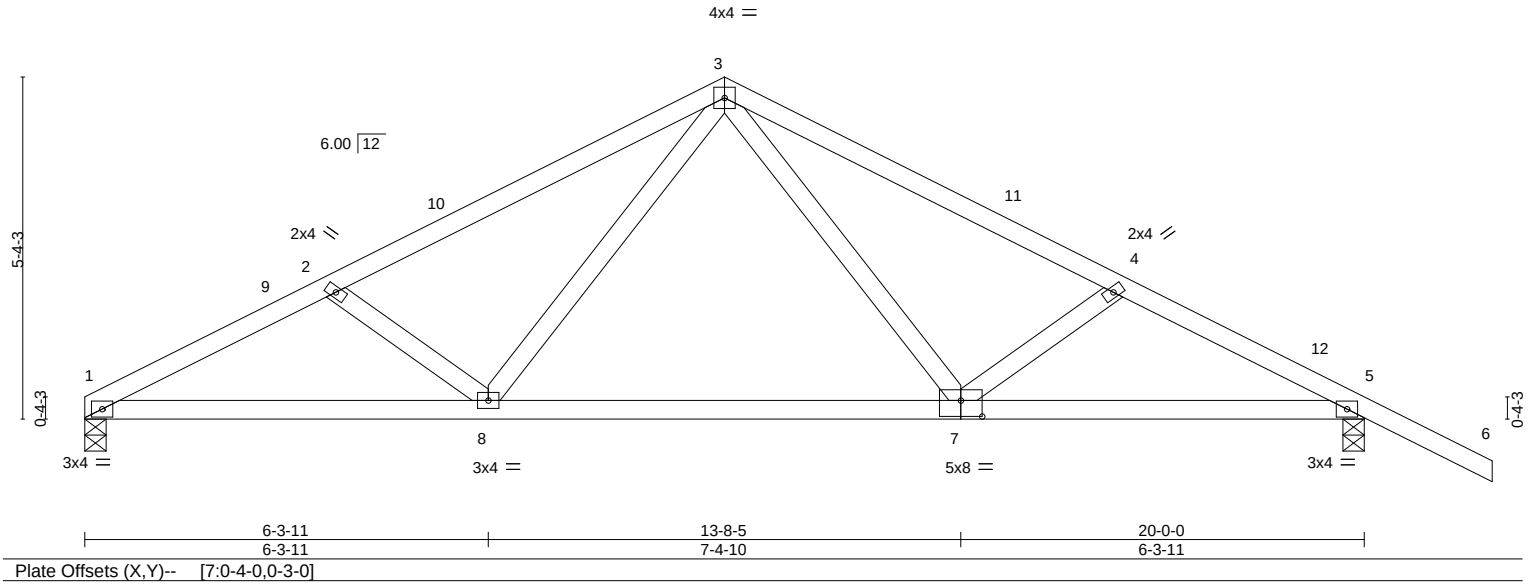
Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:38 2024 Page 1

ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-LOPYnPo0dUkRN99VKAQqmw3elwdohpdcJx9Ikgzh?H3

3-11-1	10-0-0	16-0-15	20-0-0	22-0-0
3-11-1	6-0-15	6-0-15	3-11-1	2-0-0

Scale = 1:36.0



6-3-11	13-8-5	20-0-0
6-3-11	7-4-10	6-3-11

Plate Offsets (X,Y)-- [7:0-4-0,0-3-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.05	7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.36	7-8	>650	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	0.03	7-8	>999	240	Weight: 94 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=0-4-0, 5=0-4-0
Max Horz 1=-95(LC 10)
Max Grav 1=1001(LC 1), 5=1145(LC 1)

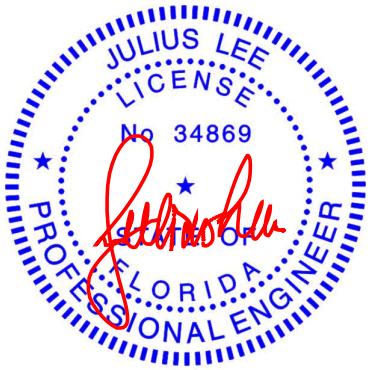
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1972/0, 2-3=-1752/0, 3-4=-1724/0, 4-5=-1931/0
BOT CHORD 1-8=0/1710, 7-8=0/1071, 5-7=0/1660
WEBS 3-7=0/715, 4-7=-263/184, 3-8=0/728, 2-8=-296/191

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 ; Lumber DOL=1.60 plate grip DOL=1.60
3) C-C wind load user defined.
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) 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) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 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 Except:

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20
2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-50, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20
3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-20, 3-6=-20, 1-8=-40, 7-8=-100, 5-7=-40
4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Continued on page 2

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

LOAD CASE(S) Standard Except:

Uniform Loads (plf)
Vert: 1-9=32, 3-9=19, 3-11=26, 5-11=19, 5-6=14, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-9=-40, 3-9=-27, 3-11=35, 5-11=27, 5-6=23

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-10=19, 3-10=26, 3-12=19, 5-12=32, 5-6=47, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-10=-27, 3-10=-35, 3-12=27, 5-12=40, 5-6=56

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-29, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=-9

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-33, 3-5=-33, 5-6=-8, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=13, 3-5=-13, 5-6=12

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=9, 5-6=4, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=17, 5-6=13

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-17, 3-5=11, 5-6=24

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-28, 3-5=-12, 5-6=-7, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=8, 3-5=8, 5-6=13

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-12, 3-5=-28, 5-6=-24, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-8, 3-5=-8, 5-6=-4

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-5=15, 5-6=28, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-24, 3-5=24, 5-6=37

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=3, 3-5=3, 5-6=15, 1-8=-12, 7-8=-72, 5-7=-12
Horz: 1-3=-11, 3-5=11, 5-6=24

14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4

15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-21, 3-5=-21, 5-6=-16, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=4

16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-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: 1-3=-56, 3-5=-44, 5-6=-40, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=6, 3-5=6, 5-6=10

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: 1-3=-44, 3-5=-56, 5-6=-53, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=-6, 3-5=-6, 5-6=-3

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: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=3

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: 1-3=-51, 3-5=-51, 5-6=-47, 1-8=-20, 7-8=-80, 5-7=-20
Horz: 1-3=1, 3-5=-1, 5-6=3

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-60, 1-8=-20, 7-8=-80, 5-7=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-50, 3-6=-20, 1-8=-20, 7-8=-80, 5-7=-20

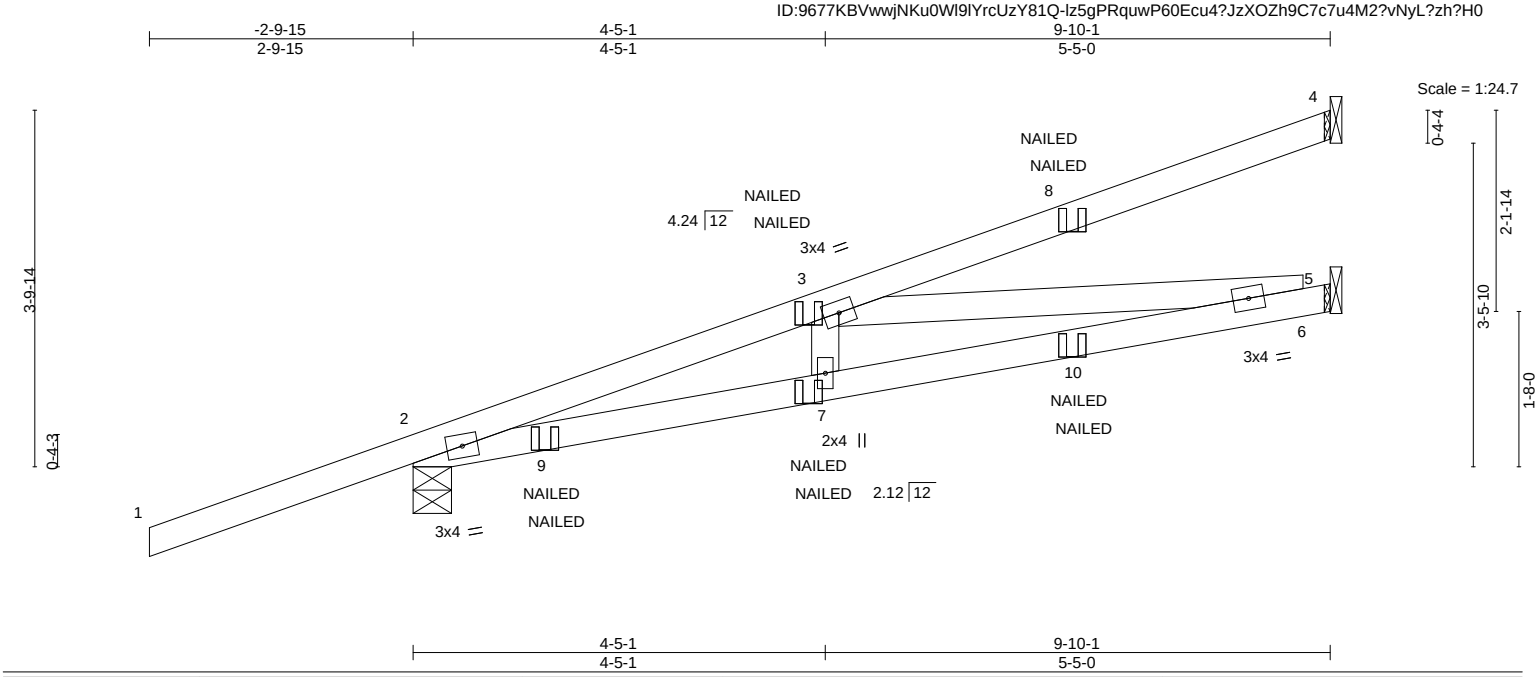
Continued on page 3

LOAD CASE(S)

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-6=-50, 1-8=-20, 7-8=-80, 5-7=-20

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	H7V	Diagonal Hip Girder	2	1	T33060226
					Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:41 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-lz5gPRquwP60Ecu4?JzXOZh9C7c7u4M2?vNyL?zh?H0



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.07	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.17	6-7	>666	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S		Wind(LL)	-0.07	2-7	>999	240	Weight: 43 lb	FT = 20%

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

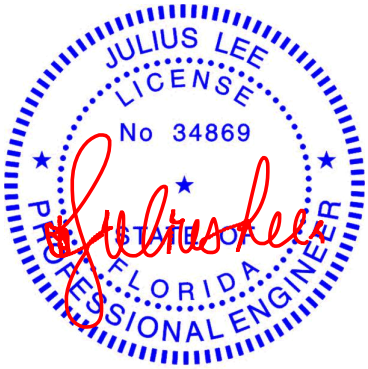
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=118(LC 8)
Max Uplift 4=-54(LC 8), 2=-186(LC 8)
Max Grav 4=168(LC 1), 2=628(LC 31), 5=273(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1292/72
BOT CHORD 2-7=-118/1186, 6-7=-123/1184
WEBS 3-6=-1159/113

NOTES-
1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=186.
8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 8=-58(F=-29, B=-29) 9=100(F=50, B=50) 10=-39(F=-19, B=-19)



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

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

Job	Truss	Truss Type	Qty	Ply	1820-CR Frame
6241952	H68	Diagonal Hip Girder	1	1	T33060227

Job Reference (optional)

Tibbetts Lumber Co., LLC (Ocala, FL), Ocala, FL - 34472, 8.730 s Jan 4 2024 MiTek Industries, Inc. Tue Feb 27 08:03:39 2024 Page 1
ID:9677KBVwwjNKu0Wl9lYrcUzY81Q-pbzw_lpeOosI?Jkiuux3l8cpUKtyQE3lYburG6zh?H2

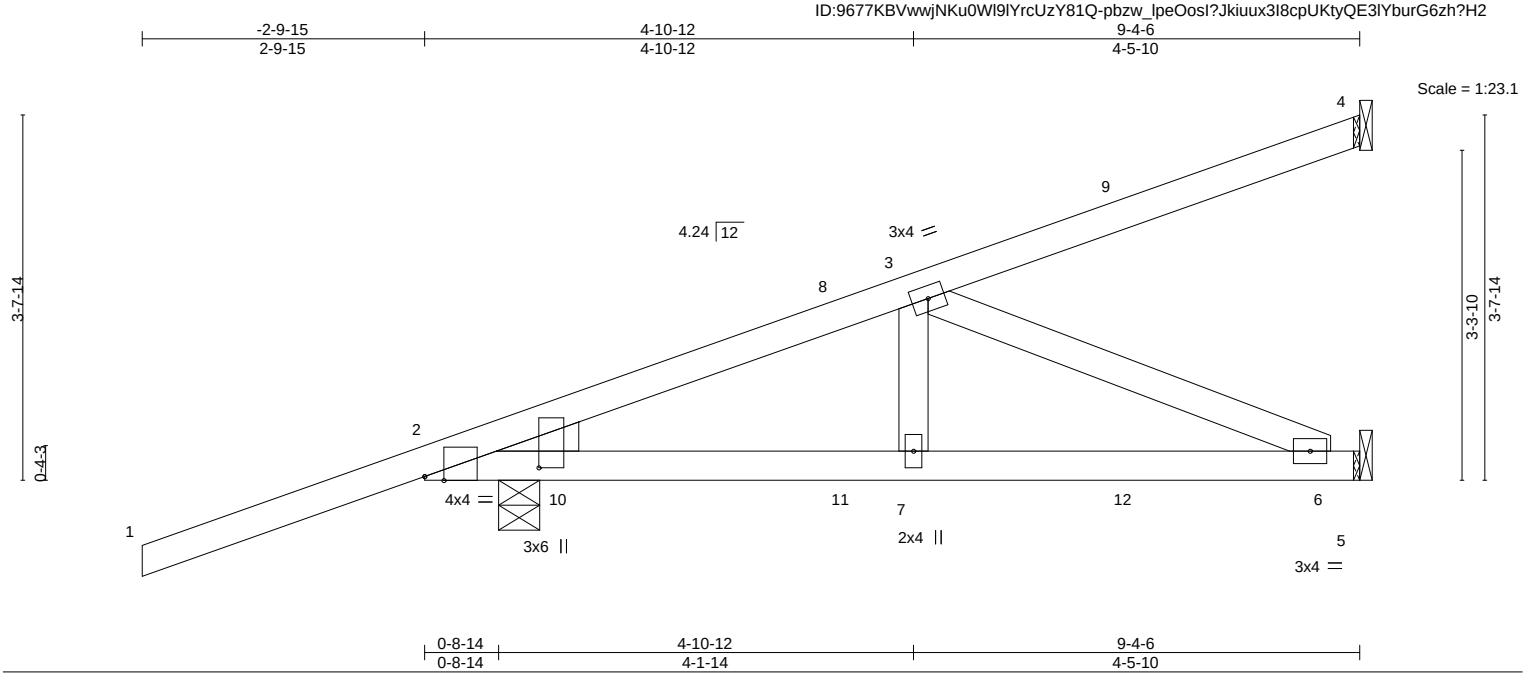


Plate Offsets (X,Y)-- [2:0-2-5,Edge], [2:0-1-1,1-1-12]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC	0.73	Vert(LL)	-0.05	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.96	Vert(CT)	-0.08	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.29	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-S		Wind(LL)	0.05	2-7	>999	240	Weight: 43 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

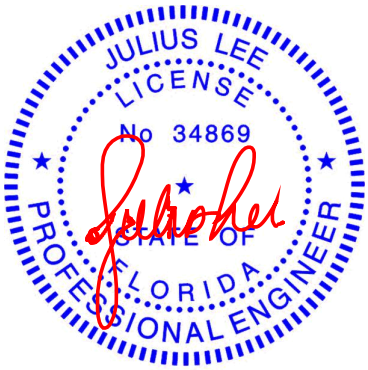
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=115(LC 8)
Max Uplift 4=-46(LC 8), 2=-313(LC 8), 5=-98(LC 5)
Max Grav 4=132(LC 1), 2=900(LC 1), 5=322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-808/200
BOT CHORD 2-7=-228/710, 6-7=-228/710
WEBS 3-7=-81/310, 3-6=-772/248

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 exposed ; porch left 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=313.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 23 lb up at 4-2-15, 54 lb down and 23 lb up at 4-2-15, and 83 lb down and 56 lb up at 7-0-14, and 83 lb down and 56 lb up at 7-0-14 on top chord, and 173 lb down and 88 lb up at 1-4-15, 173 lb down and 88 lb up at 1-4-15, 11 lb down and 24 lb up at 4-2-15, 11 lb down and 24 lb up at 4-2-15, and 39 lb down and 29 lb up at 7-0-14, and 39 lb down and 29 lb up at 7-0-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 2-5=-20



Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

February 28,2024

Continued on page 2

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

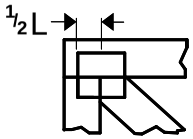
LOAD CASE(S) Standard

Concentrated Loads (lb)

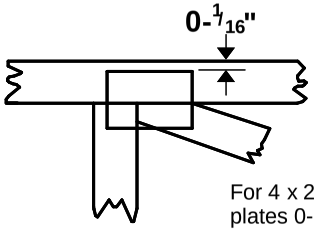
Vert: 9=-60(F=-30, B=-30) 10=-346(F=-173, B=-173) 12=-39(F=-20, B=-20)

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.

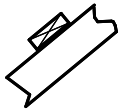
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

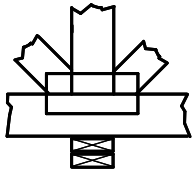
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

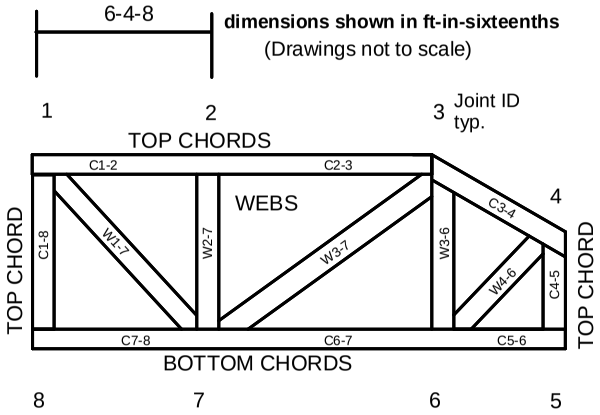


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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.

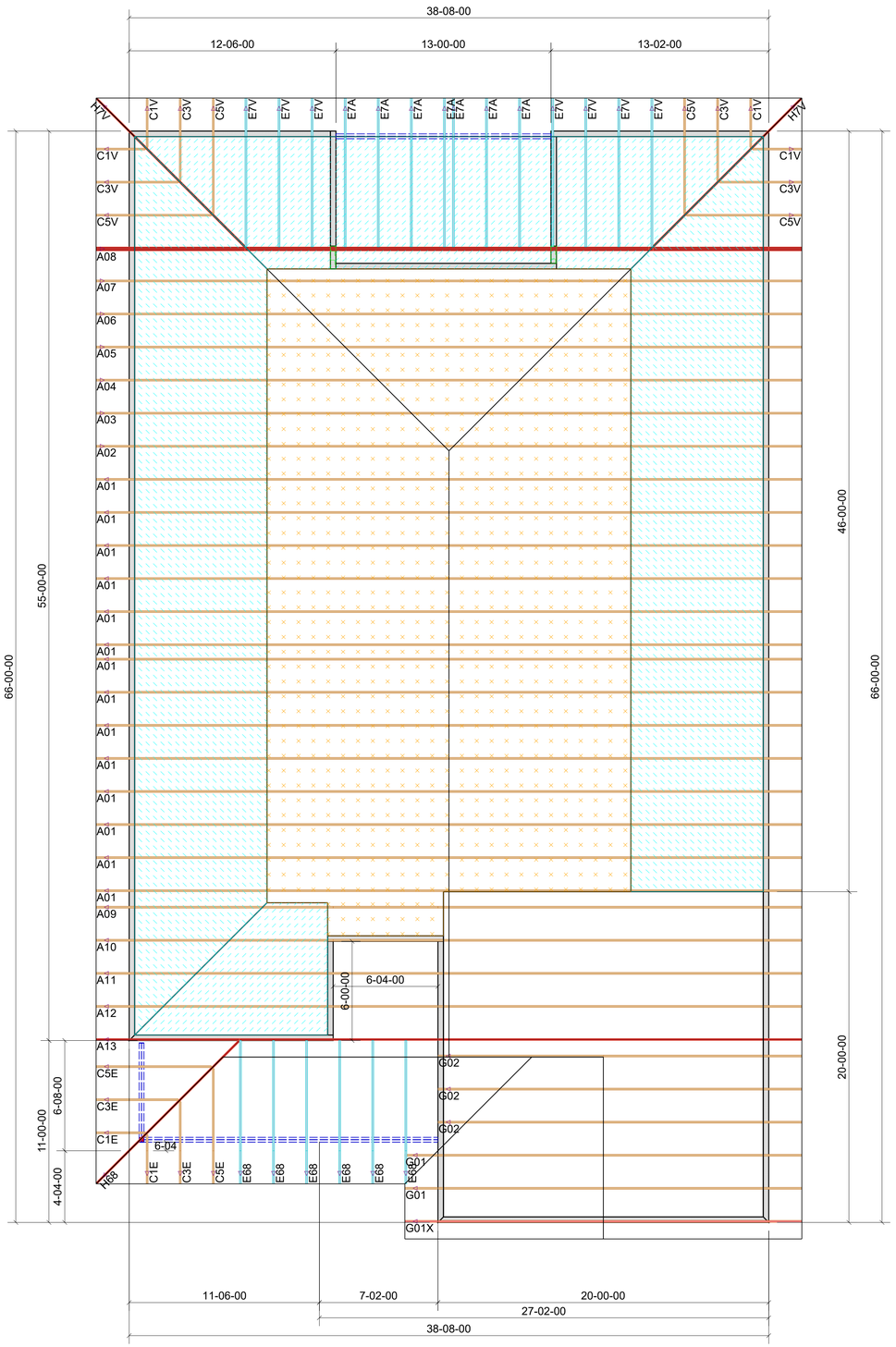
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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
9'-8-3/4" Brg Hgt
10'-0" Flat Ceiling

*** 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 back 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	:	4"	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			
	TYP: THD26						TYP: THD46		
A	JUS24	G	THDH28-2	M	THD26	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 :1820-CR
Address:	Lot # 001 The Preserve at Laurel Lake
	Lake City , Florida

Rev.

Date	:	10/02/24	Scale	:	1/4" = 1'-0"	D= 1/4
Revised	:	.	Drawn By	:	Steve R.	
Sheet #	:	1 of 1	Job #	:	6241952	

Tibbetts Lumber Ocala

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

Reaction Summary

Job Number: **6241952-R**
Quoted On:
Ordered On: **7/19/2024**
Scheduled Delivery On:
Product: **Roof**

Customer Information
Adams Homes of NW FL - Gainesville

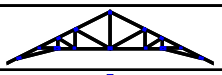
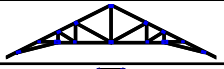
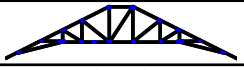
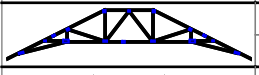
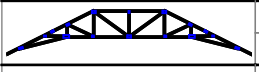
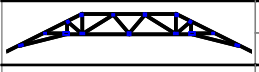
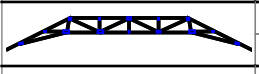
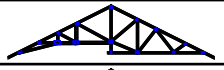
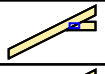
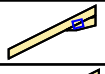
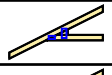
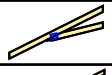
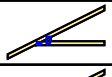
Address & Phone	Contact
Phone:	

Job Information
The Preserve at Laurel Lake 001

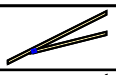
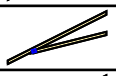
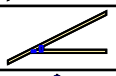
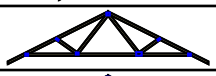
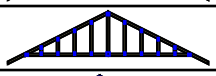
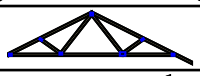
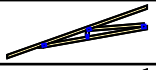
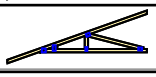
Address	Lot	Sub-Division
370 SW Rosemary Dr Lake City FL 32024	001	The Preserve at Laurel Lake
	Sales Person: Chris Adam	Customer P.O. No.
	Estimator: Steven Roberts	Designer: Steven Roberts

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		14 1-ply	38-08-00 10-11-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 1663, -128 / Joint 2: 1663, -128
A02		1 1-ply	38-08-00 10-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 1663, -128 / Joint 2: 1663, -128
A03		1 1-ply	38-08-00 9-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11: 1663, -128 / Joint 2: 1663, -128
A04		1 1-ply	38-08-00 8-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12: 1808, -128 / Joint 2: 1808, -128
A05		1 1-ply	38-08-00 7-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 12: 1663, -128 / Joint 2: 1663, -128
A06		1 1-ply	38-08-00 6-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 11: 1663, -128 / Joint 2: 1663, -128
A07		1 1-ply	38-08-00 5-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 1663, -128 / Joint 2: 1663, -128
A08		1 2-ply	38-08-00 4-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 728, -95 / Joint 13: 2514, -138 / Joint 16: 2457, -130 / Joint 2: 663, -93
A09		1 1-ply	38-08-00 10-11-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 1668, -125 / Joint 2: 1669, -125
A10		1 1-ply	38-08-00 10-11-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 1667, -126 / Joint 2: 1667, -126
A11		1 1-ply	38-08-00 10-11-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 772, -109 / Joint 14: 1715, -2 / Joint 15: 910, -56 / Joint 2: 418, -88
A12		1 1-ply	38-08-00 10-11-15	6 /12 3 /12	2 x 4 2 x 4	Joint 10: 773, -108 / Joint 14: 1664, 5 / Joint 15: 973, -71 / Joint 2: 408, -82
A13		1 1-ply	38-08-00 10-11-15	6 /12 	2 x 4 2 x 4	Joint 13: 761, -108 / Joint 17: 1611, -118 / Joint 19: 979, -280 / Joint 2: 369, -93 / Joint 20: 1009, -270
C1E		2 1-ply	1-00-00 1-09-15	6 /12 	2 x 4 2 x 4	Joint 3: 199, -77 / Joint 4: 0, 0
C1V		4 1-ply	1-00-00 1-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 2: 290, -218 / Joint 4: 94, -91
C3E		2 1-ply	3-00-00 2-09-15	6 /12 	2 x 4 2 x 4	Joint 2: 290, -109 / Joint 3: 37, -14 / Joint 4: 56, -7
C3V		4 1-ply	3-00-00 2-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 2: 292, -85 / Joint 3: 35, -14 / Joint 4: 55, 17
C5E		2 1-ply	5-00-00 3-09-15	6 /12 	2 x 4 2 x 4	Joint 2: 349, -111 / Joint 3: 115, -36 / Joint 4: 96, -12
C5V		4 1-ply	5-00-00 3-09-15	6 /12 3 /12	2 x 4 2 x 4	Joint 2: 350, -70 / Joint 3: 114, -36 / Joint 4: 95, 29

Roof Trusses

Label	Profile	Qty / Ply	Span / Height	TC Pitch / BC Pitch	TC / BC	Reactions
E7A		7	7-00-00	6 /12	2 x 4	Joint 2: 418, -60 / Joint 3: 187, -64 / Joint 4: 137, 41
		1-ply	4-09-15	3 /12	2 x 4	
E7V		7	7-00-00	6 /12	2 x 4	Joint 2: 422, -63 / Joint 3: 182, -63 / Joint 4: 135, 41
		1-ply	4-09-15	3 /12	2 x 4	
E68		6	6-08-00	6 /12	2 x 4	Joint 2: 408, -119 / Joint 3: 172, -58 / Joint 4: 129, -17
		1-ply	4-07-15		2 x 4	
G01		2	20-00-00	6 /12	2 x 4	Joint 2: 1138, 126 / Joint 6: 1138, 126
		1-ply	6-03-15		2 x 4	
G01X		1	20-00-00	6 /12	2 x 4	***Continuous Support***
		1-ply	6-03-15		2 x 4	
G02		3	20-00-00	6 /12	2 x 4	Joint 1: 1001, 191 / Joint 5: 1145, 122
		1-ply	6-03-15		2 x 4	
H7V		2	9-10-01	4.24 /12	2 x 4	Joint 2: 628, -186 / Joint 4: 167, -53 / Joint 5: 273, 18
		1-ply	4-09-07	2.12 /12	2 x 4	
H68		1	9-04-06	4.24 /12	2 x 4	Joint 2: 900, -313 / Joint 4: 163, -55 / Joint 5: 295, -89
		1-ply	4-07-07		2 x 4	