MiTek

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

RE: Seay - Seay

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

Site Information:

Customer Info: BB Homes Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 51 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T31375680	A01GIR	8/22/23	23	T31375702	C02	8/22/23
2	T31375681	A02	8/22/23	24	T31375703	C03	8/22/23
3	T31375682	A03	8/22/23	25	T31375704	C04	8/22/23
4	T31375683	A04	8/22/23	26	T31375705	C05	8/22/23
5	T31375684	A05	8/22/23	27	T31375706	C06	8/22/23
6	T31375685	A06	8/22/23	28	T31375707	C07	8/22/23
7	T31375686	A07	8/22/23	29	T31375708	C08	8/22/23
8	T31375687	A08	8/22/23	30	T31375709	CJ01	8/22/23
9	T31375688	A09	8/22/23	31	T31375710	CJ02	8/22/23
10	T31375689	A10	8/22/23	32	T31375711	D01GIR	8/22/23
11	T31375690	A11	8/22/23	33	T31375712	D02	8/22/23
12	T31375691	A12	8/22/23	34	T31375713	D03	8/22/23
13	T31375692	A13	8/22/23	35	T31375714	D04	8/22/23
14	T31375693	B01GIR	8/22/23	36	T31375715	D05	8/22/23
15	T31375694	B02	8/22/23	37	T31375716	D06GIR	8/22/23
16	T31375695	B03	8/22/23	38	T31375717	E01GE	8/22/23
17	T31375696	B04	8/22/23	39	T31375718	E02	8/22/23
18	T31375697	B05	8/22/23	40	T31375719	E03GIR	8/22/23
19	T31375698	B06	8/22/23	41	T31375720	F01GE	8/22/23
20	T31375699	B07	8/22/23	42	T31375721	F02	8/22/23
21	T31375700	B08	8/22/23	43	T31375722	F03	8/22/23
22	T31375701	C01GE	8/22/23	44	T31375723	J1	8/22/23

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius
My license renewal date for the state of Florida is February 28, 2025.

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

August 22,2023

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

MiTek®

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

RE: Seay - Seay

Site Information:

Customer Info: BB Homes Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County State: FL

No.	Seal#	Truss Name	Date
45	T31375724	J1A	8/22/23
46	T31375725	J2	8/22/23
47	T31375726	J3	8/22/23
48	T31375727	J4	8/22/23
49	T31375728	PB01	8/22/23
50	T31375729	PB02	8/22/23
51	T31375730	PB03	8/22/23

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A01GIR	Half Hip Girder	1	2	T31375680

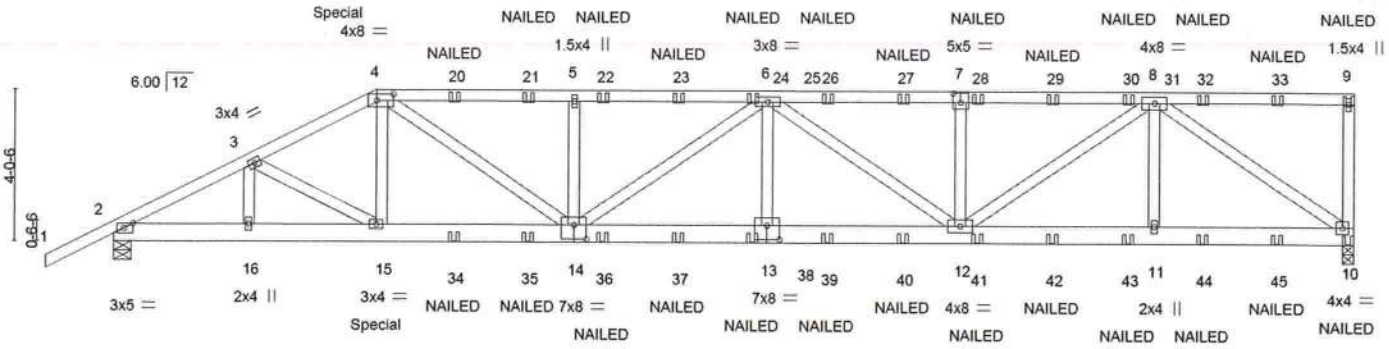
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:44 2023 Page 1

ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-vVa4VNESDiWsvPmwvnG9eDq6x8tQOkcPPwKLZCyIM6X

-1-10-0	3-7-0	7-0-0	12-3-9	17-5-6	22-7-2	27-8-15	33-0-8
1-10-0	3-7-0	3-5-0	5-3-9	5-1-13	5-1-13	5-1-13	5-3-9

Scale = 1:59.1



3-7-0	7-0-0	12-3-9	17-5-6	22-7-2	27-8-15	33-0-8
3-7-0	3-5-0	5-3-9	5-1-13	5-1-13	5-1-13	5-3-9

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [4:0-5-4,0-2-0], [7:0-2-8,0-3-0], [13:0-4-0,0-4-8], [14:0-4-0,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.17	13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.35	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 423 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-4-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

REACTIONS. (size) 10=0-3-8, 2=0-5-8
Max Horz 2=121(LC 7)
Max Uplift 10=-77(LC 8), 2=-145(LC 8)
Max Grav 10=2977(LC 1), 2=2687(LC 1)

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

TOP CHORD	2-3=-4831/186, 3-4=-4977/225, 4-5=-6104/257, 5-6=-6104/257, 6-7=-5501/168, 7-8=-5501/168, 9-10=-362/87
BOT CHORD	2-16=-173/4260, 15-16=-173/4260, 14-15=-175/4449, 13-14=-178/6474, 12-13=-178/6474, 11-12=-101/3486, 10-11=-101/3486
WEBS	3-16=-287/48, 3-15=-145/318, 4-15=0/644, 4-14=-55/2048, 5-14=-657/158, 6-14=-484/0, 6-13=0/402, 6-12=-1193/97, 7-12=-500/118, 8-12=-43/2472, 8-11=0/451, 8-10=-4225/117

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 10 and 145 lb uplift at joint 2.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 246 lb down and 159 lb up at 7-0-0 on top chord, and 334 lb down and 33 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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

August 22,2023

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-9=-60, 10-17=-20

Concentrated Loads (lb)

Vert: 4=-199(F) 9=-149(F) 10=-66(F) 15=-314(F) 20=-125(F) 21=-125(F) 22=-125(F) 23=-125(F) 24=-125(F) 26=-125(F) 27=-125(F) 28=-125(F) 29=-125(F) 30=-125(F) 32=-125(F) 33=-125(F) 34=-58(F) 35=-58(F) 36=-58(F) 37=-58(F) 38=-58(F) 39=-58(F) 40=-58(F) 41=-58(F) 42=-58(F) 43=-58(F) 44=-58(F) 45=-58(F)

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

Date:

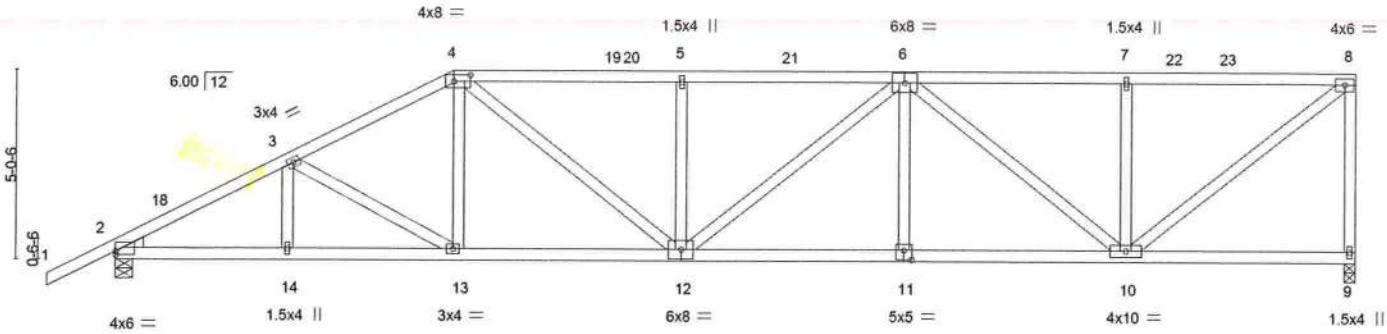
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A02	Half Hip	1	1	T31375681
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:46 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-ruirv3FilJmZ8jwl0CldjewT3xTTsZJitEpSd4ylM6V

-1-10-0	4-7-0	9-0-0	15-1-0	21-0-4	26-11-8	33-0-8
1-10-0	4-7-0	4-5-0	6-1-0	5-11-4	5-11-4	6-1-0

Scale = 1:59.1



4-7-0	9-0-0	15-1-0	21-0-4	26-11-8	33-0-8
4-7-0	4-5-0	6-1-0	5-11-4	5-11-4	6-1-0

Plate Offsets (X,Y)-- [2:0-0-0,0-1-4], [4:0-5-4,0-2-0], [11:0-2-8,0-3-0]

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	0.52	Vert(LL)	-0.14	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.34	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 190 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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 9=0-3-8, 2=0-5-8
Max Horz 2=153(LC 11)
Max Uplift 2=-45(LC 12)
Max Grav 9=1313(LC 1), 2=1429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2331/54, 3-4=-2090/94, 4-5=-2303/127, 5-6=-2303/127, 6-7=-1410/96, 7-8=-1410/96, 8-9=-1258/76
BOT CHORD 2-14=-222/2007, 13-14=-222/2007, 12-13=-172/1841, 11-12=-128/2098, 10-11=-128/2098
WEBS 4-13=0/340, 4-12=-34/671, 5-12=-424/100, 6-12=-48/262, 6-10=-881/40, 7-10=-423/103, 8-10=-59/1774

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-5-10, Interior(1) 1-5-10 to 9-0-0, Exterior(2R) 9-0-0 to 13-8-1, Interior(1) 13-8-1 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

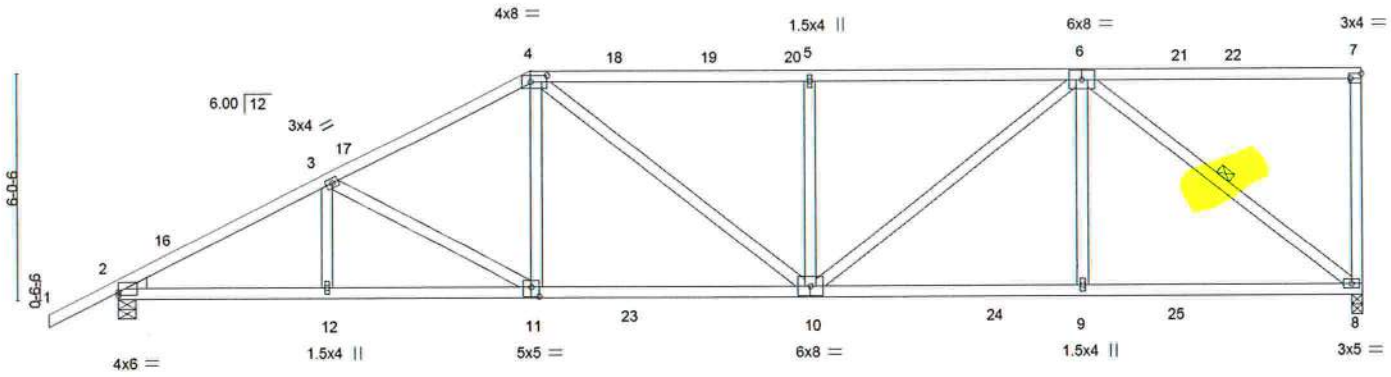
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A03	Half Hip	1	1	T31375682
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:47 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-K4GD7PGKWduQmsUUavpsGrScTLq6b2mr6uY?AXylM6U

-1-10-0	5-7-0	11-0-0	18-4-12	25-7-12	33-0-8
1-10-0	5-7-0	5-5-0	7-4-12	7-3-0	7-4-12

Scale = 1:58.7



5-7-0	11-0-0	18-4-12	25-7-12	33-0-8
5-7-0	5-5-0	7-4-12	7-3-0	7-4-12

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [4:0-5-4,0-2-0], [7:Edge,0-1-8], [11:0-2-8,0-3-0]

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	0.67	Vert(LL)	-0.28	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.54	10-11	>732	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 189 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-11: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=183(LC 11)
Max Uplift 2=-44(LC 12)
Max Grav 8=1492(LC 17), 2=1600(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2662/60, 3-4=-2212/114, 4-5=-2148/137, 5-6=-2148/137
BOT CHORD 2-12=-247/2363, 11-12=-247/2363, 10-11=-200/1964, 9-10=-100/1538, 8-9=-100/1538
WEBS 3-11=-457/54, 4-11=0/472, 4-10=-17/404, 5-10=-522/119, 6-10=-90/812, 6-9=0/435, 6-8=-1894/48

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-5-10, Interior(1) 1-5-10 to 11-0-0, Exterior(2R) 11-0-0 to 15-8-1, Interior(1) 15-8-1 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

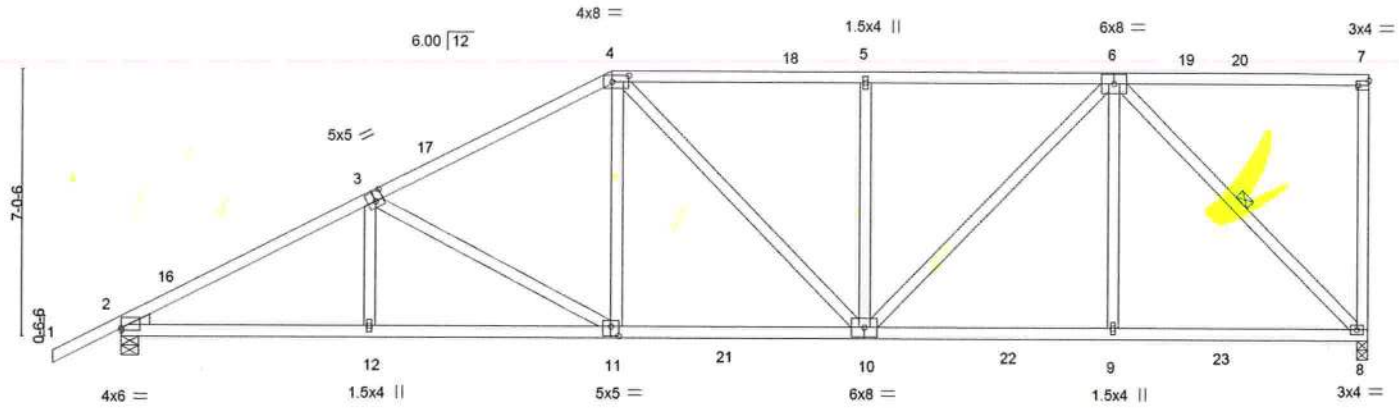
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A04	Half Hip	1	1	T31375683
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:48 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-oHqbKlHyHx0HN03h8dK5o3?mWl9GKWi?KYIYizylM6T

-1-10-0	6-7-0	13-0-0	19-8-12	26-3-12	33-0-8
1-10-0	6-7-0	6-5-0	6-8-12	6-7-0	6-8-12

Scale = 1:58.7



6-7-0	13-0-0	19-8-12	26-3-12	33-0-8
6-7-0	6-5-0	6-8-12	6-7-0	6-8-12

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [3:0-2-8,0-3-0], [4:0-5-4,0-2-0], [7:Edge,0-1-8], [11:0-2-8,0-3-0]

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	0.71	Vert(LL)	-0.24	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.45	10-11	>869	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 199 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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=213(LC 11)
Max Uplift 8=-1(LC 12), 2=-43(LC 12)
Max Grav 8=1516(LC 17), 2=1608(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2628/50, 3-4=-2041/121, 4-5=-1796/141, 5-6=-1796/141
BOT CHORD 2-12=-243/2329, 11-12=-245/2324, 10-11=-213/1826, 9-10=-110/1242, 8-9=-110/1242
WEBS 3-12=0/273, 3-11=-571/37, 4-11=0/527, 5-10=-473/105, 6-10=-90/838, 6-9=0/417, 6-8=-1718/58

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-5-10, Interior(1) 1-5-10 to 13-0-0, Exterior(2R) 13-0-0 to 17-8-1, Interior(1) 17-8-1 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 8 and 43 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

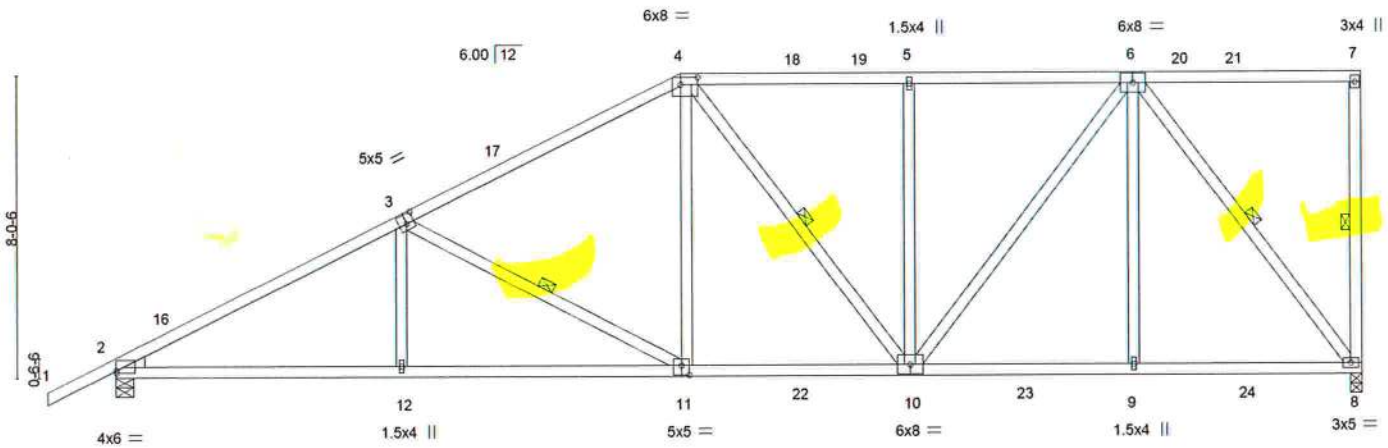
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay	
SEAY	A05	Half Hip	1	1	Job Reference (optional)	T31375684

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:49 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-GTOzY5Ib2E88?AetiKsKLGYxo9XX3zz8ZC16EPylM6S

-1-10-0	7-7-0	15-0-0	21-0-12	26-11-12	33-0-8
1-10-0	7-7-0	7-5-0	6-0-12	5-11-0	6-0-12

Scale = 1:58.5



7-7-0	15-0-0	21-0-12	26-11-12	33-0-8
7-7-0	7-5-0	6-0-12	5-11-0	6-0-12

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

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	0.74	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.36	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 209 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except* 4-6,6-7: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 3-11, 4-10, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=244(LC 11)
Max Uplift 8=-2(LC 12), 2=-42(LC 12)
Max Grav 8=1532(LC 17), 2=1610(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2587/52, 3-4=-1869/130, 4-5=-1505/148, 5-6=-1505/148
BOT CHORD 2-12=-254/2293, 11-12=-256/2287, 10-11=-220/1670, 9-10=-118/1009, 8-9=-118/1009
WEBS 3-12=0/331, 3-11=-705/41, 4-11=0/587, 5-10=-420/92, 6-10=-94/876, 6-9=0/387, 6-8=-1603/67

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-5-10, Interior(1) 1-5-10 to 15-0-0, Exterior(2R) 15-0-0 to 19-8-1, Interior(1) 19-8-1 to 32-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 8 and 42 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A06	Half Hip	1	1	T31375685

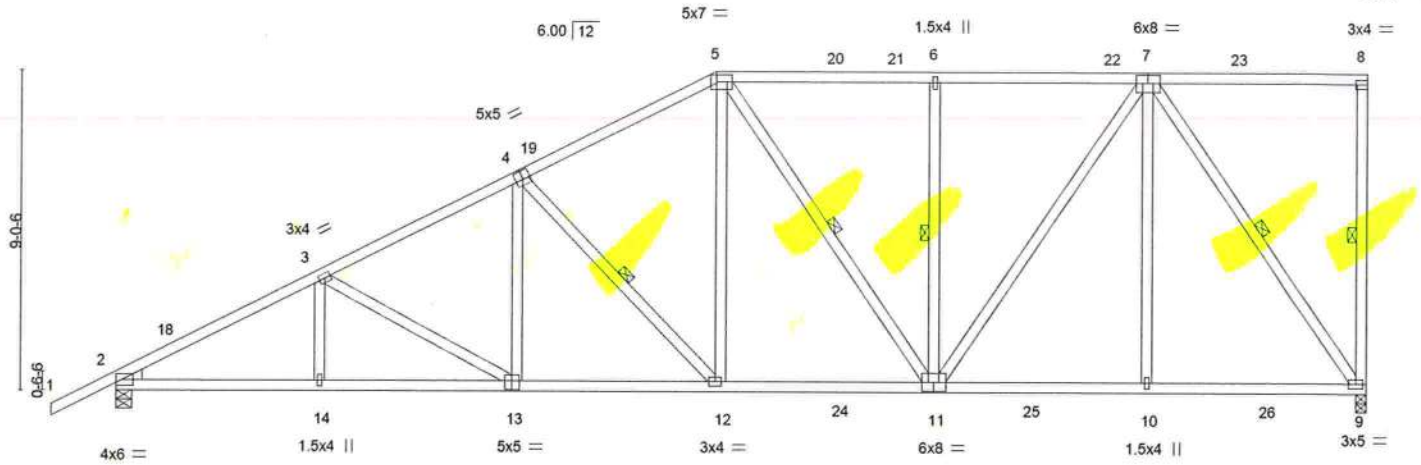
Job Reference (optional)

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:23 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-znx8EvI_D571mZcXK3clsTUMiOV9Ls1wtGU2_5ylHkY

-1-10-0	5-9-6	11-4-11	17-0-0	23-2-7	29-3-1	35-5-8
1-10-0	5-9-6	5-7-5	5-7-5	6-2-7	6-0-11	6-2-7

Scale = 1:62.8



5-9-6	11-4-11	17-0-0	23-2-7	29-3-1	35-5-8
5-9-6	5-7-5	5-7-5	6-2-7	6-0-11	6-2-7

Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [4:0-2-8,0-3-0], [5:0-5-4,0-2-8], [8:Edge,0-1-8], [13:0-2-8,0-3-0]

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	0.57	Vert(LL)	-0.17	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.31	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 242 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-9, 4-12, 5-11, 6-11, 7-9

REACTIONS. (size) 9=0-3-8, 2=0-5-8
Max Horz 2=274(LC 11)
Max Uplift 9=-3(LC 12), 2=-41(LC 12)
Max Grav 9=1657(LC 17), 2=1725(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2919/67, 3-4=-2444/111, 4-5=-1915/144, 5-6=-1511/162, 6-7=-1511/162
BOT CHORD 2-14=-321/2630, 13-14=-321/2630, 12-13=-274/2176, 11-12=-224/1739, 10-11=-128/1000, 9-10=-128/1000
WEBS 3-13=-503/54, 4-13=0/415, 4-12=-654/72, 5-12=0/777, 5-11=-323/63, 6-11=-436/100, 7-11=-105/968, 7-10=0/405, 7-9=-1694/77

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-8-9, Interior(1) 1-8-9 to 17-0-0, Exterior(2R) 17-0-0 to 22-0-3, Interior(1) 22-0-3 to 35-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 9 and 41 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

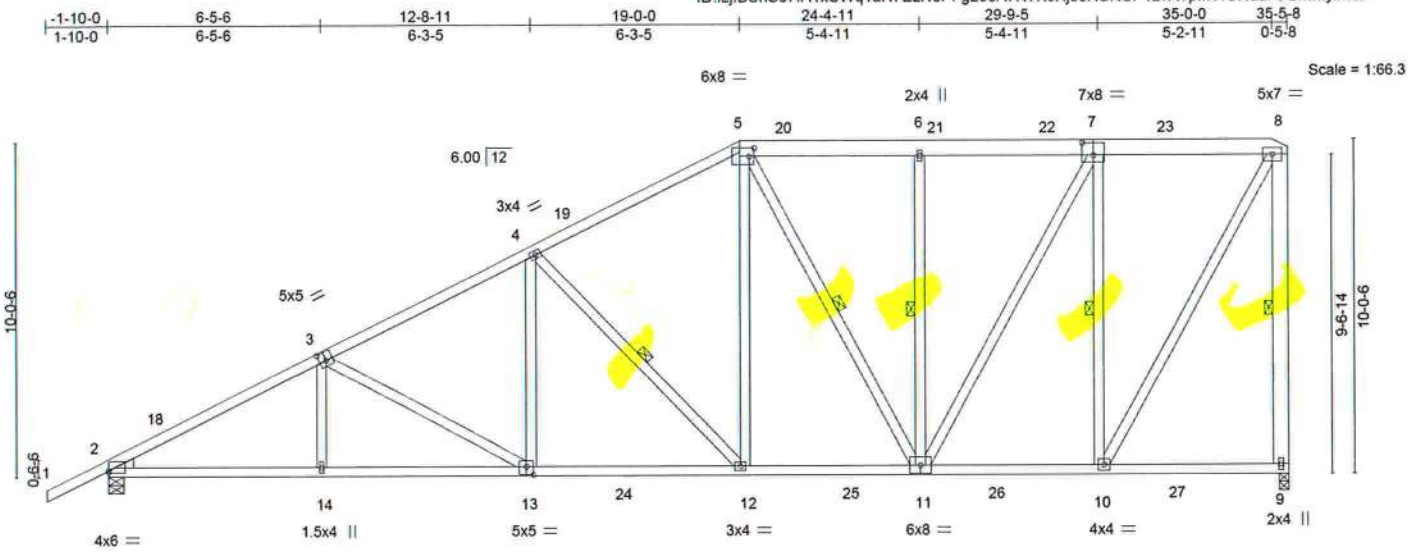
August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A07	Hip	1	1	T31375686

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:52 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-g236A7KTK9XjseNSNSP1zvATpMYIGNuaF9GmrkyIM6P



6-5-6	12-8-11	19-0-0	24-4-11	29-9-5	35-5-8
6-5-6	6-3-5	6-3-5	5-4-11	5-4-11	5-8-3

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [3:0-2-8,0-3-0], [5:0-1-12,0-3-0], [7:0-4-0,0-4-8], [13:0-2-8,0-3-0]

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	0.63	Vert(LL)	-0.20	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.36	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 5-7,7-8: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 8-9: 2x6 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 5-11, 6-11, 7-10, 8-9

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=302(LC 11)
Max Uplift 2=-40(LC 12), 9=-4(LC 12)
Max Grav 2=1740(LC 17), 9=1682(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2904/52, 3-4=-2366/123, 4-5=-1766/159, 5-6=-1294/171, 6-7=-1292/169, 7-8=-827/155, 8-9=-1562/121
BOT CHORD 2-14=-309/2611, 13-14=-311/2606, 12-13=-293/2150, 11-12=-225/1579, 10-11=-137/850
WEBS 3-14=0/256, 3-13=-514/22, 4-13=0/471, 4-12=-838/97, 5-12=0/911, 5-11=-498/76, 6-11=-384/90, 7-11=-107/1020, 7-10=-1135/178, 8-10=-100/1617

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-8-9, Interior(1) 1-8-9 to 19-0-0, Exterior(2R) 19-0-0 to 24-0-3, Interior(1) 24-0-3 to 35-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 4 lb uplift at joint 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

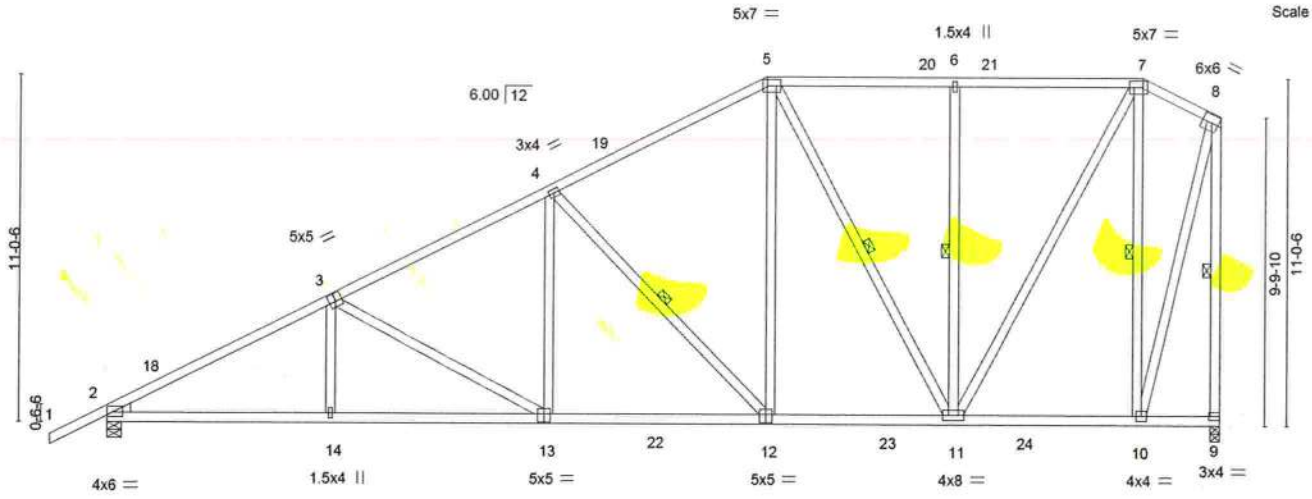
Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A08	Hip	1	1	T31375687
					Job Reference (optional)

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:24 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-RzVWSFIc_PFuOjBktm7XOh1Tcoud4MJ46wEbWXylHkX

-1-10-0	7-1-6	14-0-11	21-0-0	27-0-0	33-0-0	35-5-8
1-10-0	7-1-6	6-11-5	6-11-5	6-0-0	6-0-0	2-5-8

Scale = 1:70.7



7-1-6	14-0-11	21-0-0	27-0-0	33-0-0	35-5-8
7-1-6	6-11-5	6-11-5	6-0-0	6-0-0	2-5-8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [3:0-2-8,0-3-0], [5:0-5-4,0-2-8], [7:0-5-4,0-2-8], [9:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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	0.75	Vert(LL)	-0.28	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.53	12-13	>804	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 265 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-13: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 5-11, 6-11, 7-10, 8-9

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=320(LC 11)
Max Uplift 2=-40(LC 12), 9=-4(LC 12)
Max Grav 2=1745(LC 17), 9=1662(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2887/55, 3-4=-2263/132, 4-5=-1578/177, 5-6=-1008/177, 6-7=-1008/177, 7-8=-501/204, 8-9=-1626/114
BOT CHORD 2-14=-301/2603, 13-14=-303/2598, 12-13=-284/2065, 11-12=-215/1394, 10-11=-121/385
WEBS 3-14=0/296, 3-13=-601/23, 4-13=0/560, 4-12=-969/99, 5-12=-1/952, 5-11=-688/92, 6-11=-407/99, 7-11=-102/1398, 7-10=-1257/240, 8-10=-138/1475

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-8-9, Interior(1) 1-8-9 to 21-0-0, Exterior(2R) 21-0-0 to 26-0-3, Interior(1) 26-0-3 to 33-0-0, Exterior(2E) 33-0-0 to 35-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 4 lb uplift at joint 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

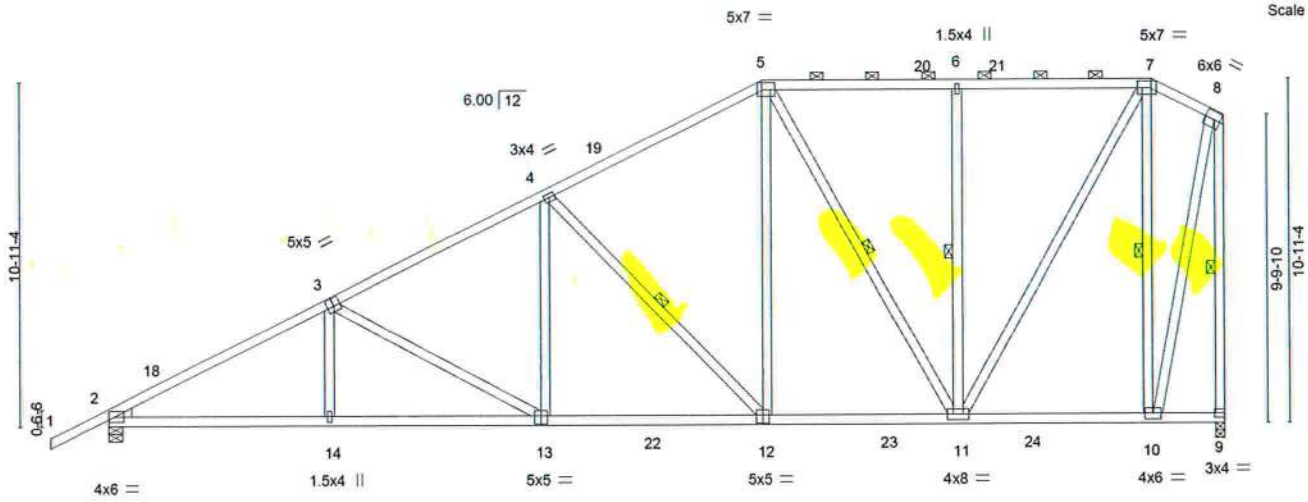
Job	Truss	Truss Type	Qty	Ply	Seay	
SEAY	A09	Piggyback Base	1	1	Job Reference (optional)	T31375688

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:25 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-vA3ufaJFljNl0tmwRUemxuZeOCDmppXDLaz93zylHkW

-1-10-0	7-0-9	13-11-2	20-9-11	27-0-0	33-2-5	35-5-8
1-10-0	7-0-9	6-10-9	6-10-9	6-2-5	6-2-5	2-3-3

Scale = 1:70.3



7-0-9	13-11-2	20-9-11	27-0-0	33-2-5	35-5-8
7-0-9	6-10-9	6-10-9	6-2-5	6-2-5	2-3-3

Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [3:0-2-8,0-3-0], [5:0-5-4,0-2-8], [7:0-5-4,0-2-8], [9:Edge,0-1-8], [12:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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	0.75	Vert(LL)	-0.28	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.52	12-13	>818	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.09	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 264 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
12-13: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 5-11, 6-11, 7-10, 8-9

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=318(LC 11)
Max Uplift 2=-40(LC 12), 9=-4(LC 12)
Max Grav 2=1745(LC 17), 9=1664(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2890/55, 3-4=-2274/131, 4-5=-1597/176, 5-6=-1020/176, 6-7=-1020/176, 7-8=-477/205, 8-9=-1633/117
BOT CHORD 2-14=-302/2606, 13-14=-303/2601, 12-13=-285/2075, 11-12=-216/1412, 10-11=-119/363
WEBS 3-14=0/292, 3-13=-592/23, 4-13=0/554, 4-12=-959/99, 5-12=0/947, 5-11=-681/92, 6-11=-419/101, 7-11=-103/1422, 7-10=-1283/248, 8-10=-140/1496

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-8-9, Interior(1) 1-8-9 to 20-9-11, Exterior(2R) 20-9-11 to 25-9-14, Interior(1) 25-9-14 to 33-2-5, Exterior(2E) 33-2-5 to 35-3-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2 and 4 lb uplift at joint 9.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) 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:

August 22,2023

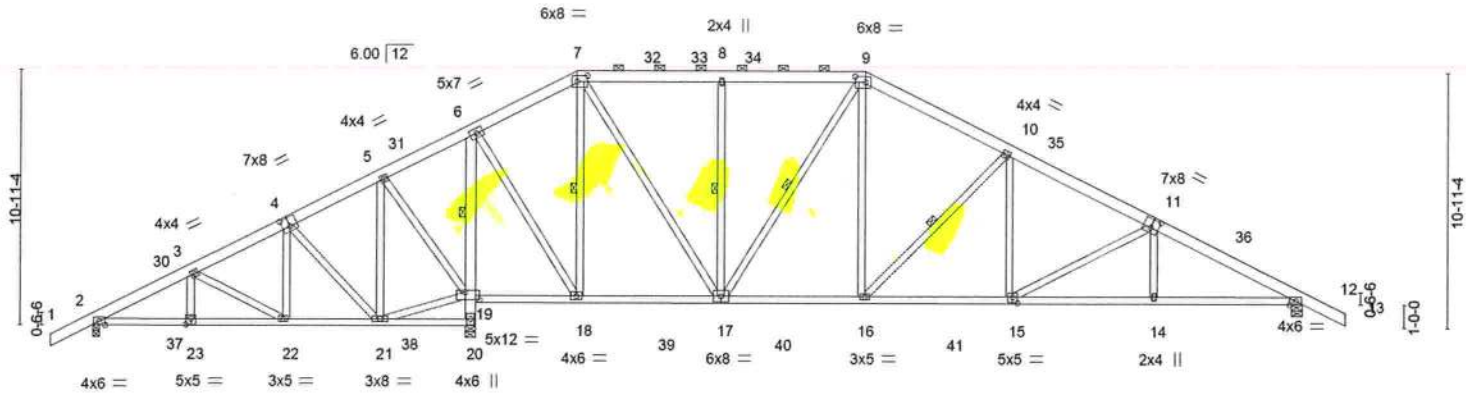
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A10	Piggyback Base	9	1	T31375689
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:57 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-1?t?DqOc9i9?zPFPA0?CgytQlNHbxe3JPRzXWyylM6K

1-10-0	4-2-14	8-3-12	12-4-10	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0	53-10-0
1-10-0	4-2-14	4-0-14	4-0-14	4-0-14	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9	1-10-0

Scale: 1/8"=1'



4-2-14	8-3-12	12-4-10	16-2-12	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0
4-2-14	4-0-14	4-0-14	3-10-2	0-2-12	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [11:0-4-0,0-4-8], [15:0-2-8,0-3-0], [19:0-7-8,0-4-0], [23:0-2-8,0-3-0]

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	0.20	Vert(LL)	-0.16	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 407 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-20: 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-19
WEBS 1 Row at midpt 7-18, 8-17, 9-17, 10-16

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 12=0-5-8
Max Horz 2=-208(LC 10)
Max Uplift 2=-180(LC 12), 20=-147(LC 12), 12=-42(LC 12)
Max Grav 2=559(LC 21), 20=2727(LC 2), 12=1658(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-620/498, 3-4=-297/349, 4-5=0/399, 5-6=-70/810, 6-7=-444/91, 7-8=-1023/117, 8-9=-1023/117, 9-10=-1601/119, 10-11=-2214/96, 11-12=-2792/32
BOT CHORD 2-23=-400/513, 22-23=-400/513, 19-20=-2674/460, 6-19=-2163/171, 18-19=-686/247, 17-18=0/324, 16-17=0/1308, 15-16=0/1892, 14-15=0/2406, 12-14=0/2409
WEBS 3-22=-372/215, 4-22=-258/340, 4-21=-466/301, 5-21=-362/548, 19-21=-317/35, 5-19=-698/407, 6-18=-81/1722, 7-18=-1141/137, 7-17=-90/1290, 8-17=-411/106, 9-17=-672/32, 9-16=0/935, 10-16=-850/111, 10-15=0/482, 11-15=-576/16, 11-14=0/269

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 3-4-6, Interior(1) 3-4-6 to 20-9-11, Exterior(2R) 20-9-11 to 28-1-15, Interior(1) 28-1-15 to 33-2-5, Exterior(2R) 33-2-5 to 40-6-9, Interior(1) 40-6-9 to 53-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2, 147 lb uplift at joint 20 and 42 lb uplift at joint 12.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) 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:

August 22,2023

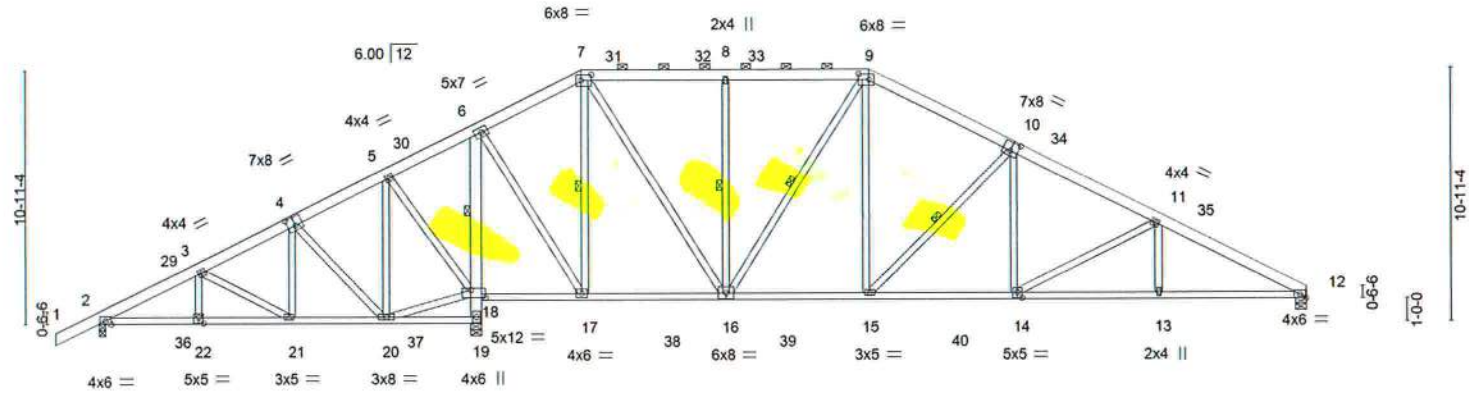
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A11	Piggyback Base	3	1	T31375690
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:08:58 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-VCQNRAPEw?HsaZqcjjWRCAQbandug4tTe5j42OylM6J

1-10-0	4-2-14	8-3-12	12-4-10	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0
1-10-0	4-2-14	4-0-14	4-0-14	4-0-14	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9

Scale: 1/8"=1'



4-2-14	8-3-12	12-4-10	16-2-12	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0
4-2-14	4-0-14	4-0-14	3-10-2	0-2-12	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [10:0-4-0,0-4-8], [14:0-2-8,0-3-0], [18:0-7-8,0-4-0], [22:0-2-8,0-3-0]

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	0.23	Vert(LL)	-0.16	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 402 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-19: 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-18
WEBS 1 Row at midpt 7-17, 8-16, 9-16, 10-15

REACTIONS. (size) 2=0-3-8, 19=0-5-8, 12=0-5-8
Max Horz 2=200(LC 11)
Max Uplift 2=-167(LC 12), 19=-166(LC 12)
Max Grav 2=559(LC 21), 19=2732(LC 2), 12=1553(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-619/475, 3-4=-296/325, 4-5=0/395, 5-6=-98/808, 6-7=-439/75, 7-8=-1020/110, 8-9=-1020/110, 9-10=-1574/108, 10-11=-2224/85, 11-12=-2849/56
BOT CHORD 2-22=-412/512, 21-22=-412/512, 18-19=-2674/486, 6-18=-2164/195, 17-18=-691/243, 16-17=0/318, 15-16=0/1317, 14-15=0/1863, 13-14=0/2480, 12-13=0/2480
WEBS 3-21=-372/216, 4-21=-258/340, 4-20=-466/301, 5-20=-359/549, 18-20=-321/26, 5-18=-699/404, 6-17=-91/1729, 7-17=-1146/146, 7-16=-93/1293, 8-16=-408/102, 9-16=-687/41, 9-15=0/902, 10-15=-800/88, 10-14=0/532, 11-14=-685/82, 11-13=0/270

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 3-4-6, Interior(1) 3-4-6 to 20-9-11, Exterior(2R) 20-9-11 to 28-1-15, Interior(1) 28-1-15 to 33-2-5, Exterior(2R) 33-2-5 to 40-6-9, Interior(1) 40-6-9 to 52-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 2 and 166 lb uplift at joint 19.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) 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:

August 22,2023

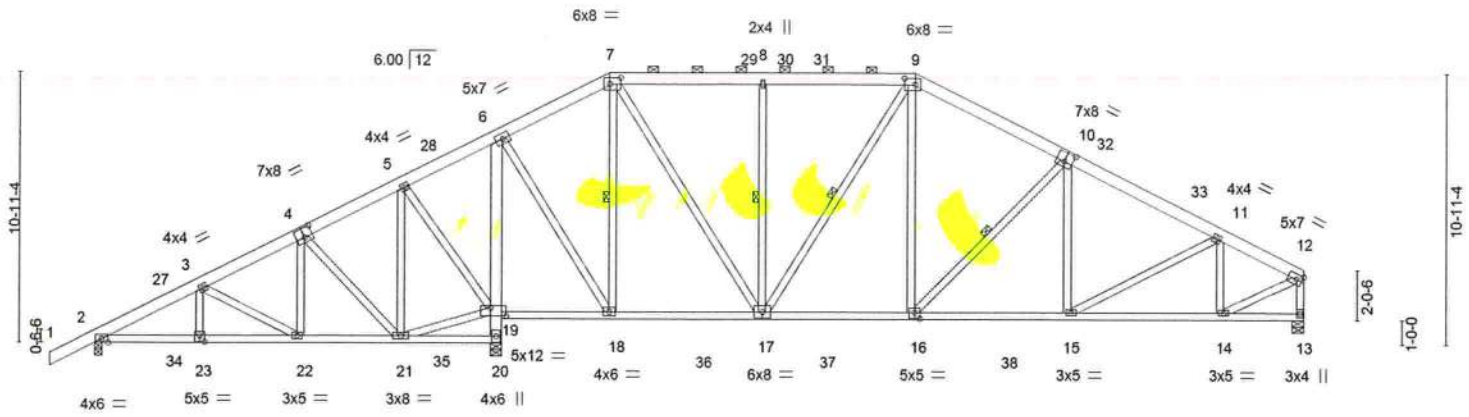
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	A12	Piggyback Base	4	1	T31375691
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:00 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-RaY7rsQUSdXaqs__r8YvHbVxEbEc80gm5PCB7HyIM6H

1-10-0	4-2-14	8-3-12	12-4-10	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	43-6-7	45-7-7	49-0-0
1-10-0	4-2-14	4-0-14	4-0-14	4-0-14	4-4-3	6-2-5	6-2-5	6-2-9	4-1-9	2-1-0	3-4-9

Scale = 1:89.7



4-2-14	8-3-12	12-4-10	16-2-12	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	43-6-7	45-7-7	49-0-0
4-2-14	4-0-14	4-0-14	3-10-2	0-2-12	4-4-3	6-2-5	6-2-5	6-2-9	4-1-9	2-1-0	3-4-9

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [10:0-4-0,0-4-8], [16:0-2-8,0-3-0], [19:0-7-8,0-4-0], [23:0-2-8,0-3-0]

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	0.22	Vert(LL)	-0.17	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.31	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 397 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-20: 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-16, 7-18, 8-17, 9-17

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 13=0-5-8
Max Horz 2=219(LC 11)
Max Uplift 2=-165(LC 12), 20=-170(LC 12)
Max Grav 2=641(LC 23), 20=2396(LC 2), 13=1471(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-797/485, 3-4=-467/337, 5-6=-140/462, 6-7=-612/71, 7-8=-1042/112, 8-9=-1042/112, 9-10=-1435/115, 10-11=-1821/72, 11-12=-1541/54, 12-13=-1424/28
BOT CHORD 2-23=-445/679, 22-23=-445/679, 21-22=-252/369, 19-20=-2349/510, 6-19=-1809/216, 18-19=-353/246, 17-18=0/456, 16-17=0/1176, 15-16=0/1502, 14-15=-36/1328
WEBS 10-16=-488/63, 3-22=-354/218, 4-22=-259/331, 4-21=-463/300, 5-21=-358/465, 5-19=-623/400, 6-18=-92/1399, 7-18=-887/149, 7-17=-89/1039, 8-17=-407/100, 9-17=-390/49, 9-16=0/590, 12-14=-23/1479, 11-14=-530/72

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=49ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 3-0-13, Interior(1) 3-0-13 to 20-9-11, Exterior(2R) 20-9-11 to 27-8-14, Interior(1) 27-8-14 to 33-2-5, Exterior(2R) 33-2-5 to 40-1-7, Interior(1) 40-1-7 to 48-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 2 and 170 lb uplift at joint 20.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) 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:

August 22,2023

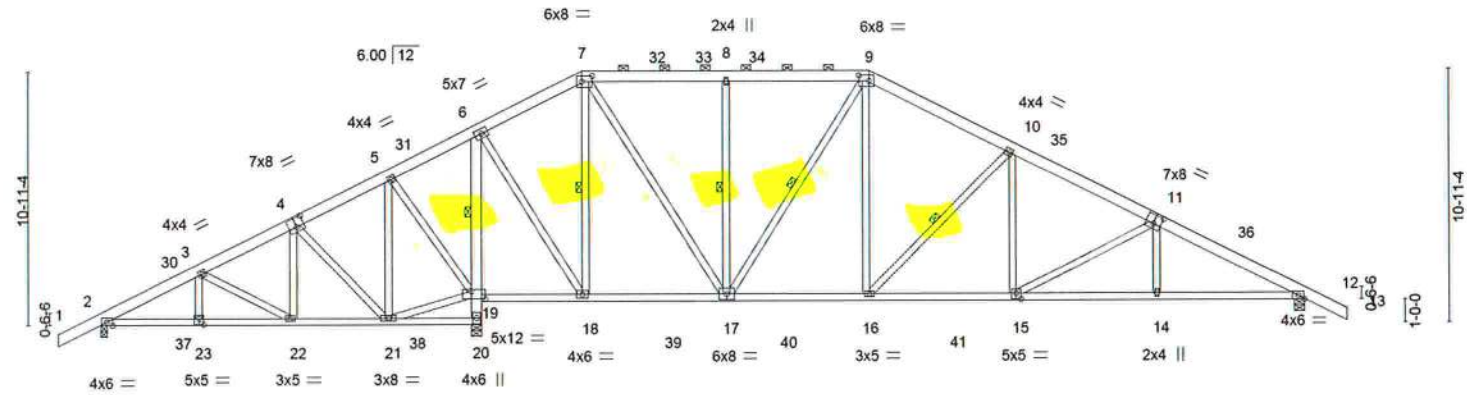
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay	T31375692
SEAY	A13	Piggyback Base	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:02 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-NzguGXSk_EnI3A8NyZbNN0aH1O_mcvI3YjhIB9yIM6F

1-10-0	4-2-14	8-3-12	12-4-10	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0	53-10-0
1-10-0	4-2-14	4-0-14	4-0-14	4-0-14	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9	1-10-0

Scale: 1/8"=1'



4-2-14	8-3-12	12-4-10	16-2-12	16-5-8	20-9-11	27-0-0	33-2-5	39-4-14	45-7-7	52-0-0
4-2-14	4-0-14	4-0-14	3-10-2	0-2-12	4-4-3	6-2-5	6-2-5	6-2-9	6-2-9	6-4-9

Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [9:0-5-4,0-3-0], [11:0-4-0,0-4-8], [15:0-2-8,0-3-0], [19:0-7-8,0-4-0], [23:0-2-8,0-3-0]

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	0.20	Vert(LL)	-0.16	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 407 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-20: 2x6 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 6-19
WEBS 1 Row at midpt 7-18, 8-17, 9-17, 10-16

REACTIONS. (size) 2=0-3-8, 20=0-5-8, 12=0-5-8
Max Horz 2=-208(LC 10)
Max Uplift 2=-180(LC 12), 20=-147(LC 12), 12=-42(LC 12)
Max Grav 2=559(LC 21), 20=2727(LC 2), 12=1658(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-620/498, 3-4=-297/349, 4-5=0/399, 5-6=-70/810, 6-7=-444/91, 7-8=-1023/117, 8-9=-1023/117, 9-10=-1601/119, 10-11=-2214/96, 11-12=-2792/32
BOT CHORD 2-23=-400/513, 22-23=-400/513, 19-20=-2674/460, 6-19=-2163/171, 18-19=-686/247, 17-18=0/324, 16-17=0/1308, 15-16=0/1892, 14-15=0/2406, 12-14=0/2409
WEBS 3-22=-372/215, 4-22=-258/340, 4-21=-466/301, 19-21=-317/35, 5-19=-698/407, 6-18=-81/1722, 7-18=-1141/137, 7-17=-90/1290, 8-17=-411/106, 9-17=-672/32, 9-16=0/935, 10-16=-850/111, 10-15=0/482, 11-15=-576/16, 11-14=0/269, 5-21=-362/548

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=52ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 3-4-6, Interior(1) 3-4-6 to 20-9-11, Exterior(2R) 20-9-11 to 28-1-15, Interior(1) 28-1-15 to 33-2-5, Exterior(2R) 33-2-5 to 40-6-9, Interior(1) 40-6-9 to 53-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 180 lb uplift at joint 2, 147 lb uplift at joint 20 and 42 lb uplift at joint 12.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) 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:

August 22,2023

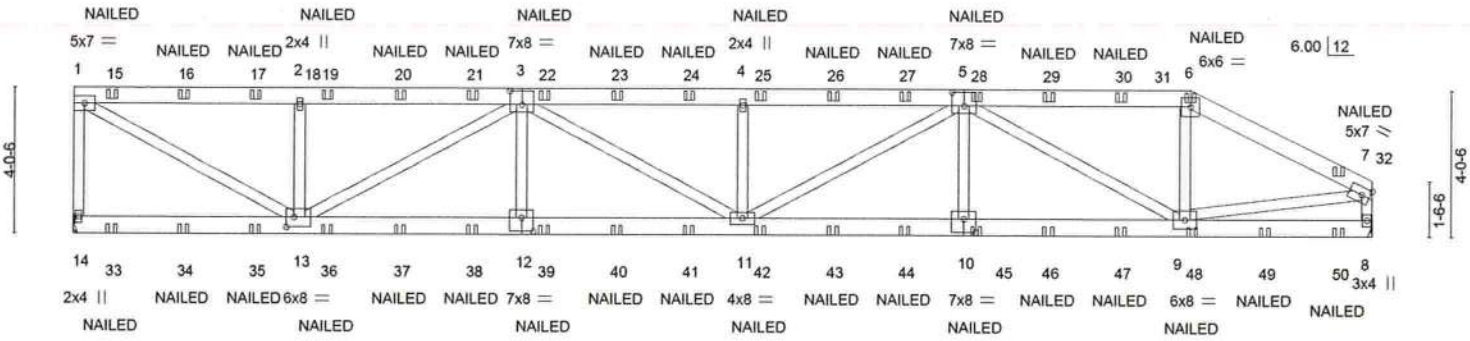
Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B01GIR	Roof Special Girder	1	2	T31375693

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:06 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-GkvP6vVF1THkYnR8BPfJXslwP?MIYgdeTLfVLwylM6B

6-3-7	12-5-2	18-6-14	24-8-9	31-0-0	36-0-0
6-3-7	6-1-11	6-1-11	6-1-11	6-3-7	5-0-0

Scale = 1:61.3



6-3-7	12-5-2	18-6-14	24-8-9	31-0-0	36-0-0
6-3-7	6-1-11	6-1-11	6-1-11	6-3-7	5-0-0

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

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	0.36	Vert(LL)	-0.20	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.40	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 511 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=Mechanical, 8=Mechanical
Max Horz 14=-105(LC 6)
Max Uplift 14=-62(LC 8), 8=-32(LC 8)
Max Grav 14=3063(LC 1), 8=2973(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-2913/125, 1-2=-4496/125, 2-3=-4496/125, 3-4=-7734/187, 4-5=-7734/187, 5-6=-3759/79, 6-7=-4210/75, 7-8=-2835/84
BOT CHORD 12-13=-92/6871, 11-12=-92/6871, 10-11=-78/6505, 9-10=-78/6505
WEBS 1-13=-102/5138, 2-13=-884/223, 3-13=-2748/55, 3-12=0/414, 3-11=-16/999, 4-11=-891/223, 5-11=-32/1422, 5-10=0/413, 5-9=-3199/93, 6-9=0/1191, 7-9=-17/3496

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
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) 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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 14 and 32 lb uplift at joint 8.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

August 22,2023

Continued on page 2

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B01GIR	Roof Special Girder	1	2	T31375693 Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-7=-60, 8-14=-20

Concentrated Loads (lb)

Vert: 6=-125(B) 15=-128(B) 16=-125(B) 17=-125(B) 19=-125(B) 20=-125(B) 21=-125(B) 22=-125(B) 23=-125(B) 24=-125(B) 25=-125(B) 26=-125(B) 27=-125(B) 28=-125(B) 29=-125(B) 30=-125(B) 32=-132(B) 33=-58(B) 34=-58(B) 35=-58(B) 36=-58(B) 37=-58(B) 38=-58(B) 39=-58(B) 40=-58(B) 41=-58(B) 42=-58(B) 43=-58(B) 44=-58(B) 45=-58(B) 46=-58(B) 47=-58(B) 48=-58(B) 49=-58(B) 50=-60(B)

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

August 22,2023

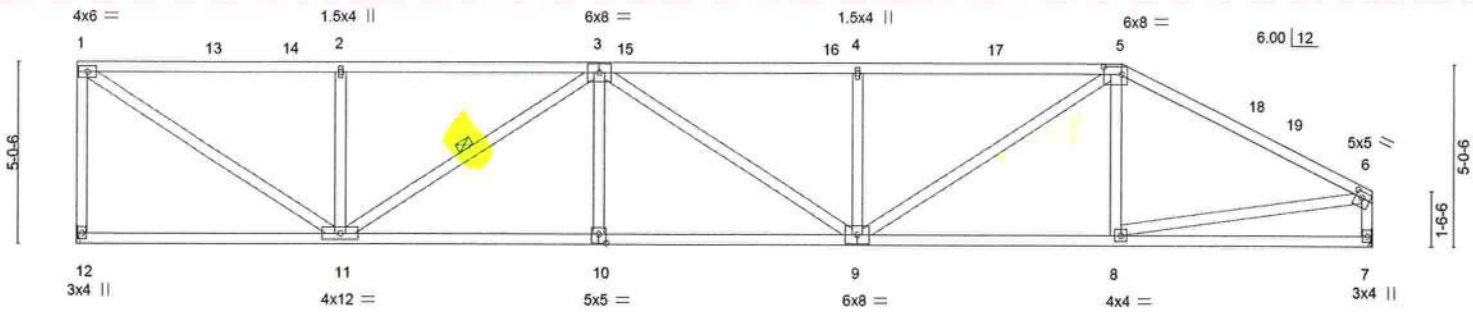
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B02	Roof Special	1	1	T31375694
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:07 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-kxTnKFWtomPb9x0Kl6AY43H?cPgWH9Woi?O3tNylM8A

7-3-14	14-6-0	21-8-2	29-0-0	36-0-0
7-3-14	7-2-2	7-2-2	7-3-14	7-0-0

Scale = 1:61.3



7-3-14	14-6-0	21-8-2	29-0-0	36-0-0
7-3-14	7-2-2	7-2-2	7-3-14	7-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.22	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.52	9-10	>828	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-10: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-11

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Horz 12=-140(LC 8)
Max Uplift 12=-1(LC 12)
Max Grav 12=1428(LC 1), 7=1428(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1362/86, 1-2=-1821/107, 2-3=-1821/107, 3-4=-2645/153, 4-5=-2645/153, 5-6=-2031/105, 6-7=-1362/98
BOT CHORD 10-11=-58/2586, 9-10=-58/2586, 8-9=-52/1728
WEBS 1-11=-70/2142, 2-11=-512/121, 3-11=-916/46, 3-10=0/255, 4-9=-502/116, 5-9=-39/1092, 6-8=-14/1567

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 29-0-0, Exterior(2R) 29-0-0 to 32-7-3, Interior(1) 32-7-3 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 12.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

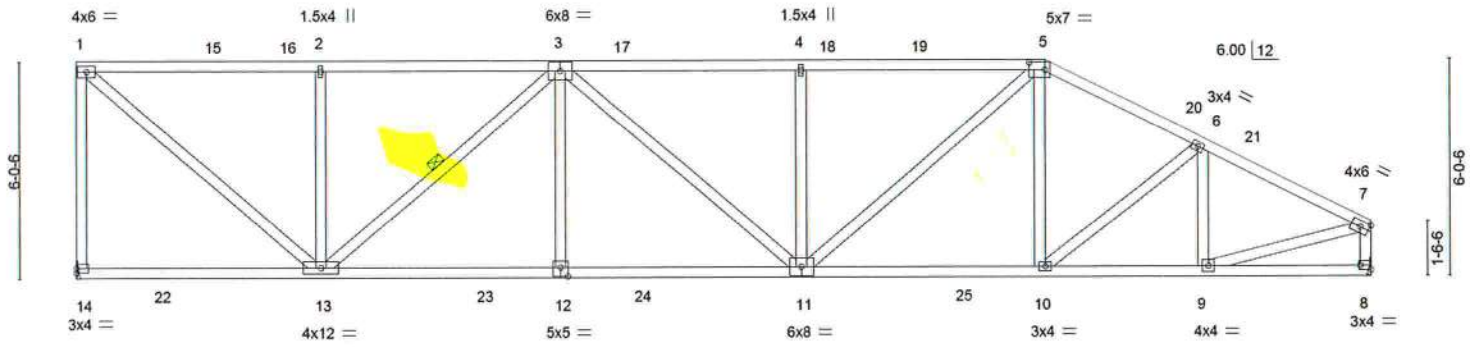
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B03	Roof Special	1	1	T31375695
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:08 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-C719XbWVZ4YSn5bXJphncHq7DpzI0c7xxf8cPpyIM69

6-9-14	13-6-0	20-2-2	27-0-0	31-4-4	36-0-0
6-9-14	6-8-2	6-8-2	6-9-14	4-4-4	4-7-12

Scale = 1:61.3



6-9-14	13-6-0	20-2-2	27-0-0	31-4-4	36-0-0
6-9-14	6-8-2	6-8-2	6-9-14	4-4-4	4-7-12

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

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	0.92	Vert(LL)	-0.26	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.49	11-12	>869	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 220 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-13

REACTIONS. (size) 14=Mechanical, 8=Mechanical
Max Horz 14=-170(LC 8)
Max Uplift 14=-1(LC 12)
Max Grav 14=1623(LC 18), 8=1622(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1494/91, 1-2=-1609/116, 2-3=-1609/116, 3-4=-2516/157, 4-5=-2516/157, 5-6=-2209/131, 6-7=-2094/95, 7-8=-1530/88
BOT CHORD 12-13=-40/2378, 11-12=-40/2378, 10-11=-40/1898, 9-10=-69/1798
WEBS 1-13=-74/2074, 2-13=-479/117, 3-13=-1017/54, 3-12=0/308, 4-11=-477/113, 5-11=-32/799, 6-9=-375/61, 7-9=-47/1755

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 27-0-0, Exterior(2R) 27-0-0 to 30-7-3, Interior(1) 30-7-3 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 14.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

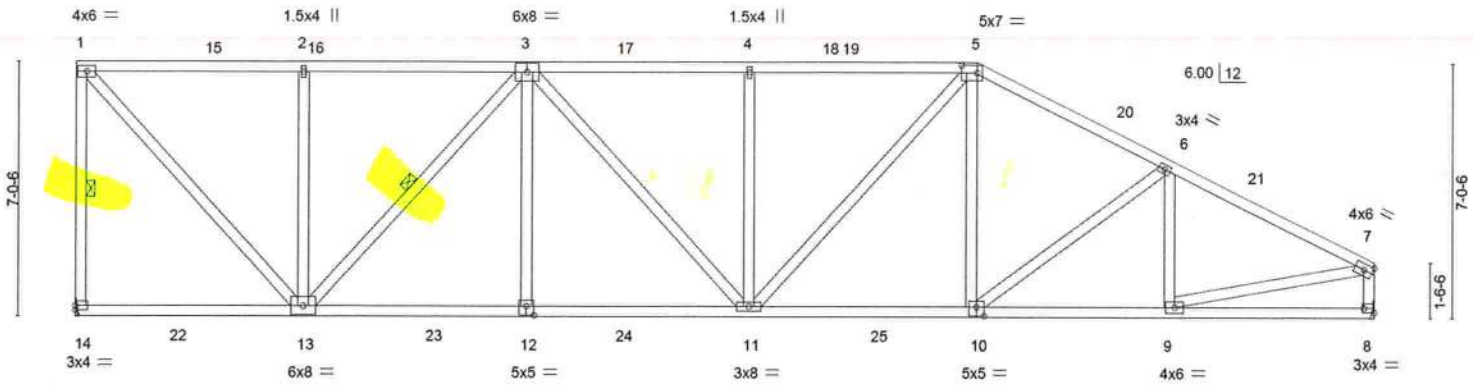
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B04	Roof Special	1	1	T31375696
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:10 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-9V9vyGYm5ho90PlvQEkFhivbAdjoUXGEOzdjUhylM67

6-3-14	12-6-0	18-8-2	25-0-0	30-4-4	36-0-0
6-3-14	6-2-2	6-2-2	6-3-14	5-4-4	5-7-12

Scale = 1:61.3



6-3-14	12-6-0	18-8-2	25-0-0	30-4-4	36-0-0
6-3-14	6-2-2	6-2-2	6-3-14	5-4-4	5-7-12

Plate Offsets (X,Y)-- [5:0-5-4,0-2-8], [8:Edge,0-1-8], [10:0-2-8,0-3-0], [12:0-2-8,0-3-0]

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	0.44	Vert(LL)	-0.16	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.30	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 234 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-14, 3-13

REACTIONS. (size) 14=Mechanical, 8=Mechanical
Max Horz 14=-201(LC 8)
Max Uplift 14=-2(LC 12)
Max Grav 14=1650(LC 18), 8=1637(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-1526/95, 1-2=-1312/127, 2-3=-1312/127, 3-4=-2226/153, 4-5=-2226/153, 5-6=-2147/150, 6-7=-2233/98, 7-8=-1543/89
BOT CHORD 13-14=-172/263, 12-13=-24/1997, 11-12=-24/1997, 10-11=-35/1816, 9-10=-63/1913
WEBS 1-13=-80/1894, 2-13=-445/113, 3-13=-1014/62, 3-12=0/262, 3-11=-56/383, 4-11=-437/106, 5-11=0/584, 5-10=0/268, 6-9=-254/86, 7-9=-33/1825

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 25-0-0, Exterior(2R) 25-0-0 to 28-7-3, Interior(1) 28-7-3 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 14.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

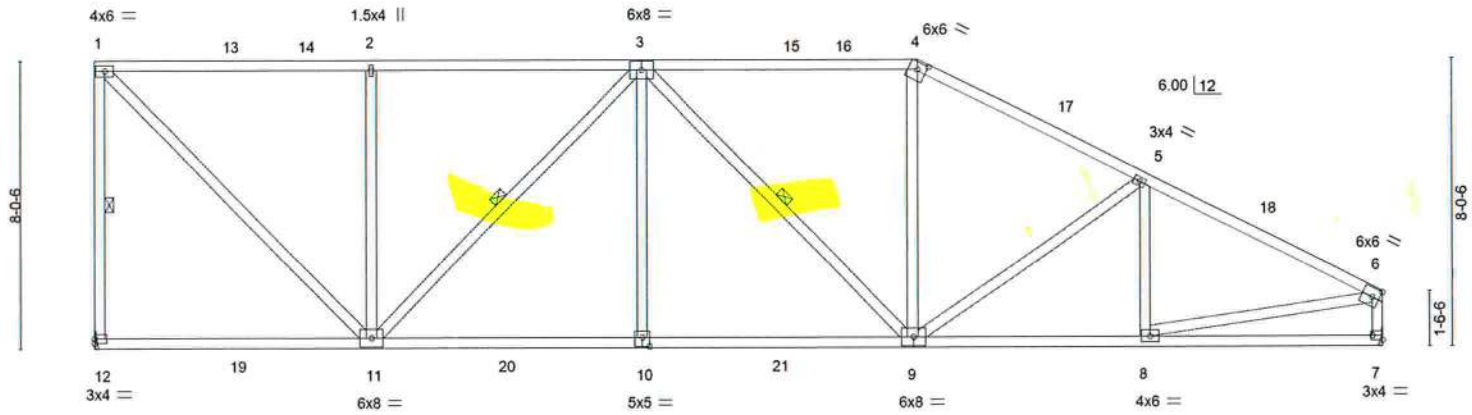
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B05	Roof Special	1	1	T31375697
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:11 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-dijl9cZOs?w0eYK6_yFUEvSgj00sDx0NddMG08ylM66

7-8-9	15-3-7	23-0-0	29-4-4	36-0-0
7-8-9	7-6-13	7-8-9	6-4-4	6-7-12

Scale = 1:61.5



7-8-9	15-3-7	23-0-0	29-4-4	36-0-0
7-8-9	7-6-13	7-8-9	6-4-4	6-7-12

Plate Offsets (X,Y)-- [4:0-3-0,0-2-7], [7:Edge,0-1-8], [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.32	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.58	9-10	>741	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 229 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-4: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 9-10: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-12, 3-11, 3-9

REACTIONS. (size) 12=Mechanical, 7=Mechanical
Max Horz 12=-231(LC 8)
Max Uplift 12=-3(LC 12)
Max Grav 12=1672(LC 18), 7=1638(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-1519/113, 1-2=-1358/142, 2-3=-1358/142, 3-4=-1795/166, 4-5=-2059/160, 5-6=-2299/101, 6-7=-1531/93
BOT CHORD 11-12=-191/296, 10-11=-15/1884, 9-10=-15/1884, 8-9=-57/1962
WEBS 1-11=-97/1905, 2-11=-548/135, 3-11=-771/77, 3-10=0/375, 4-9=0/490, 5-9=-296/67, 6-8=-21/1817

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 23-0-0, Exterior(2R) 23-0-0 to 26-7-3, Interior(1) 26-7-3 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 12.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

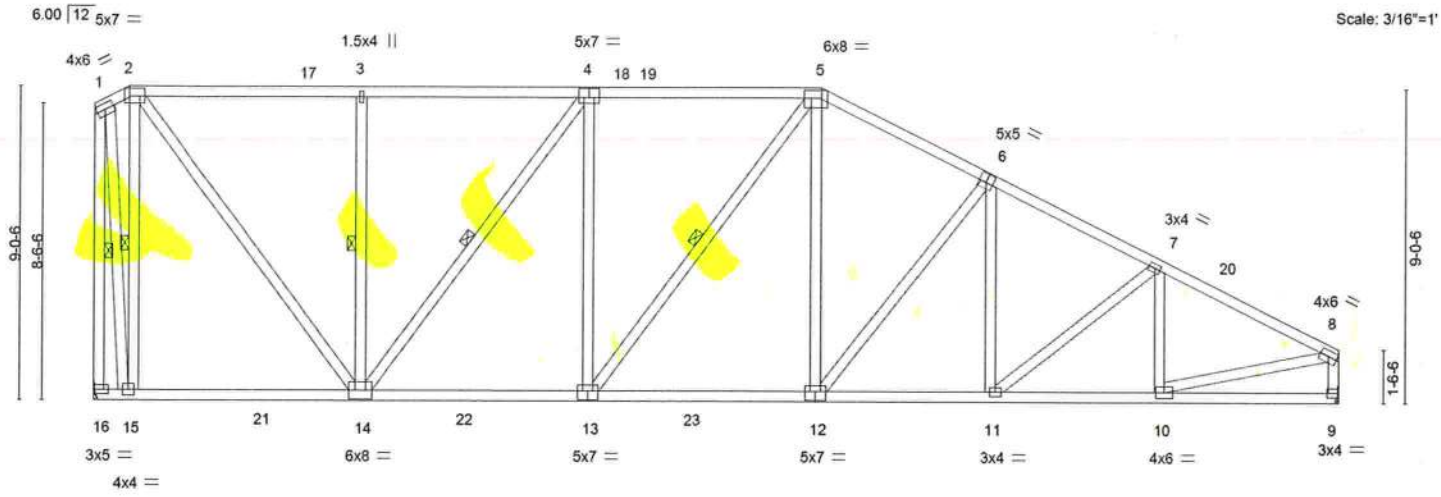
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B06	Hip	1	1	T31375698
					Job Reference (optional)

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:25 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-vA3ufaJFljNl0tmwRUemxuZeyCCspsGDLaz93zylHkW

1-0-0	7-8-9	14-3-7	21-0-0	25-10-13	30-9-11	36-0-0
1-0-0	6-8-9	6-6-13	6-8-9	4-10-13	4-10-13	5-2-5



1-0-0	7-8-9	14-3-7	21-0-0	25-10-13	30-9-11	36-0-0
1-0-0	6-8-9	6-6-13	6-8-9	4-10-13	4-10-13	5-2-5

Plate Offsets (X,Y)-- [2:0-5-4,0-2-8], [4:0-3-8,0-3-0], [5:0-6-0,0-2-8], [6:0-2-8,0-3-0], [9:Edge,0-1-8], [12:0-3-8,0-3-0], [13:0-3-8,0-3-0]

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	0.71	Vert(LL)	-0.24	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.44	12-13	>978	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 275 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-15, 3-14, 4-14, 5-13, 1-16

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Horz 16=-256(LC 10)
Max Uplift 16=-3(LC 12)
Max Grav 16=1679(LC 18), 9=1646(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-324/205, 2-3=-1193/151, 3-4=-1193/151, 4-5=-1628/160, 5-6=-1897/158, 6-7=-2205/120, 7-8=-2203/87, 1-16=-1658/154, 8-9=-1552/80
BOT CHORD 15-16=-203/304, 14-15=-113/293, 13-14=0/1640, 12-13=0/1639, 11-12=-17/1859, 10-11=-58/1893
WEBS 2-15=-1388/296, 2-14=-95/1675, 3-14=-481/112, 4-14=-751/68, 4-13=0/330, 5-12=0/551, 6-12=-414/55, 7-10=-313/71, 1-15=-104/1498, 8-10=-34/1831

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-0-0, Exterior(2R) 1-0-0 to 6-1-2, Interior(1) 6-1-2 to 21-0-0, Exterior(2R) 21-0-0 to 25-9-14, Interior(1) 25-9-14 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 16.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

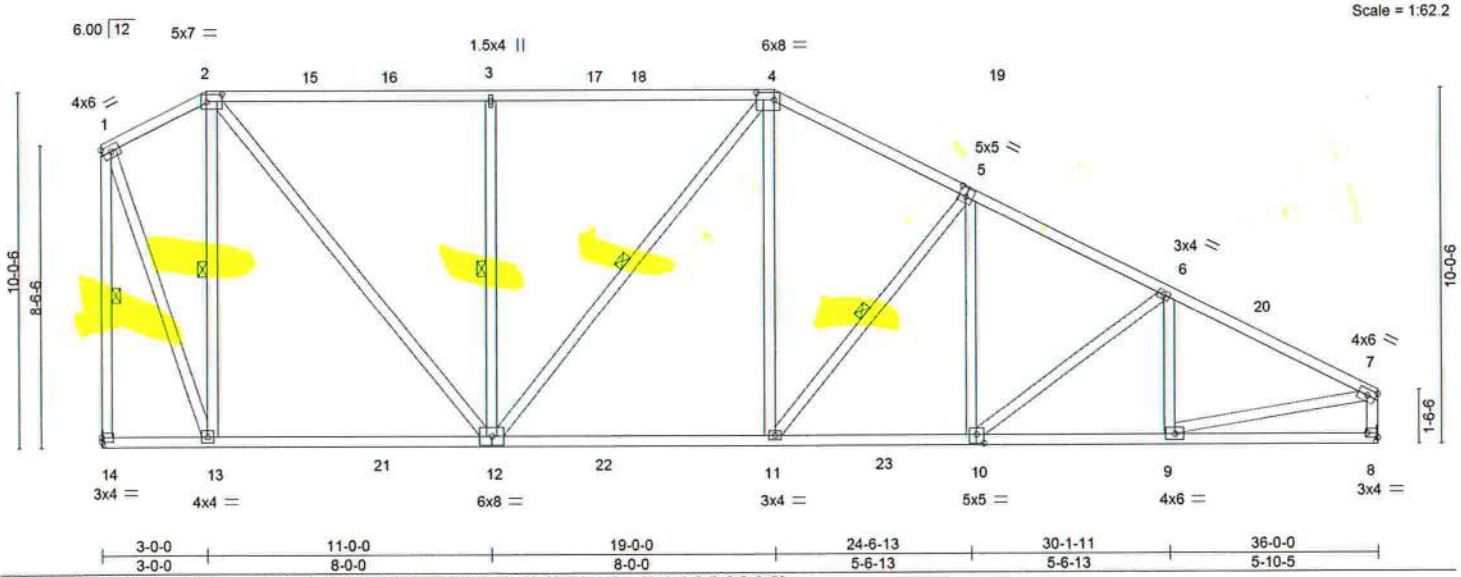
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B07	Hip	1	1	T31375699
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:13 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-Z4q2alaeOcAktsUU6NHyJKX3XqhGhtGg4xrN40ylM64

3-0-0	11-0-0	19-0-0	24-6-13	30-1-11	36-0-0
3-0-0	8-0-0	8-0-0	5-6-13	5-6-13	5-10-5

Scale = 1:62.2



3-0-0	11-0-0	19-0-0	24-6-13	30-1-11	36-0-0
3-0-0	8-0-0	8-0-0	5-6-13	5-6-13	5-10-5

Plate Offsets (X,Y)-- [2:0-5-4,0-2-8], [4:0-6-0,0-2-8], [5:0-2-8,0-3-0], [8:Edge,0-1-8], [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.25	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.45	11-12	>950	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 262 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 3-12, 4-12, 5-11, 1-14

REACTIONS. (size) 14=Mechanical, 8=Mechanical
Max Horz 14=-274(LC 10)
Max Uplift 14=-3(LC 12)
Max Grav 14=1664(LC 18), 8=1665(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-642/169, 2-3=-1324/180, 3-4=-1324/180, 4-5=-1809/160, 5-6=-2180/133, 6-7=-2297/89, 1-14=-1691/73, 7-8=-1567/82
BOT CHORD 13-14=-213/300, 12-13=0/600, 11-12=0/1566, 10-11=-15/1819, 9-10=-54/1971
WEBS 2-13=-1073/227, 2-12=-107/1344, 3-12=-547/125, 4-12=-438/49, 4-11=0/764, 5-11=-494/82, 5-10=0/275, 1-13=-105/1515, 7-9=-27/1879

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-0-0, Exterior(2R) 3-0-0 to 8-1-2, Interior(1) 8-1-2 to 19-0-0, Exterior(2R) 19-0-0 to 24-1-2, Interior(1) 24-1-2 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 14.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	B08	Hip	1	1	T31375700
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:15 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-VTyo?_cuwEQS7AdtDoJQOldPeeQp9nuzYEKU9vylM62

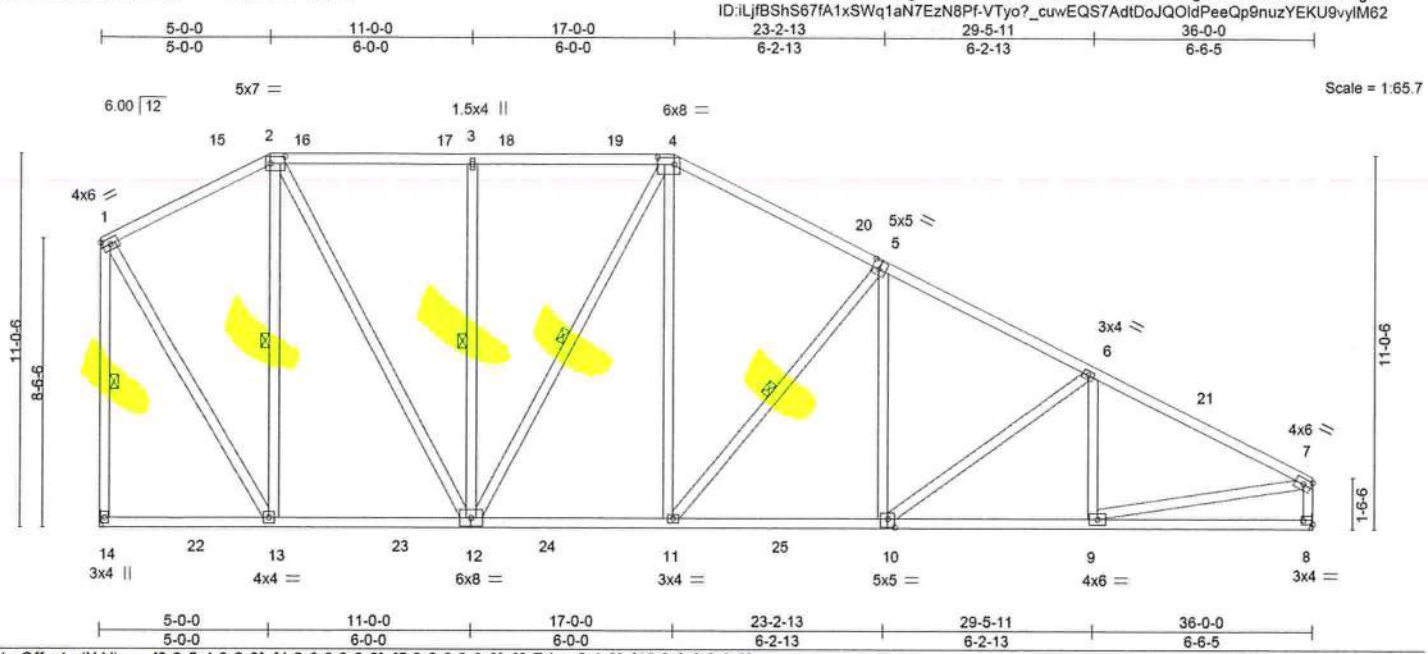


Plate Offsets (X,Y)-- [2:0-5-4,0-2-8], [4:0-6-0,0-2-8], [5:0-2-8,0-3-0], [8:Edge,0-1-8], [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.16	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 273 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-13, 3-12, 4-12, 5-11, 1-14

REACTIONS. (size) 14=Mechanical, 8=Mechanical
Max Horz 14=-292(LC 10)
Max Uplift 14=-3(LC 12)
Max Grav 14=1684(LC 18), 8=1662(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-858/179, 2-3=-1189/190, 3-4=-1189/190, 4-5=-1636/175, 5-6=-2115/141, 6-7=-2337/95, 1-14=-1589/114, 7-8=-1555/87
BOT CHORD 13-14=-209/298, 12-13=0/781, 11-12=0/1426, 10-11=-8/1746, 9-10=-54/2001
WEBS 2-13=-871/187, 2-12=-88/1088, 3-12=-396/92, 4-12=-525/52, 4-11=0/820, 5-11=-631/84, 5-10=0/386, 6-10=-303/68, 1-13=-102/1351, 7-9=-24/1873

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=36ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-8-15, Interior(1) 3-8-15 to 5-0-0, Exterior(2R) 5-0-0 to 10-1-2, Interior(1) 10-1-2 to 17-0-0, Exterior(2R) 17-0-0 to 22-1-2, Interior(1) 22-1-2 to 35-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 14.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

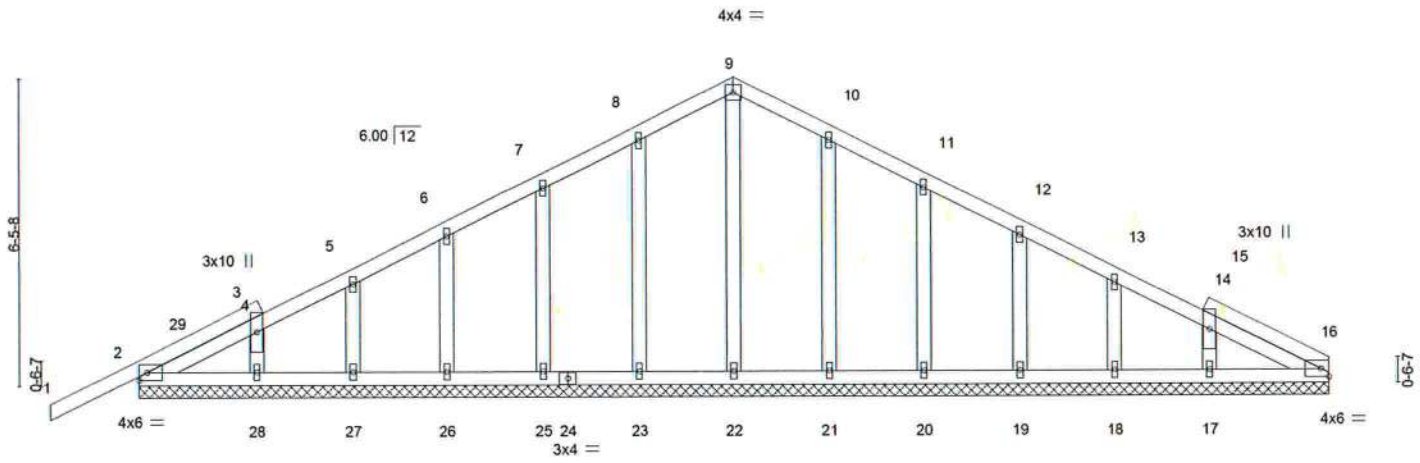
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C01GE	Common Supported Gable	1	1	T31375701
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:16 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-zfWACKdWhXYJkKC3nVrfxz9gF1xwuKH6mu41hLylM61

-1-10-0 / 1-10-0 | 12-6-0 / 12-6-0 | 25-0-0 / 12-6-0

Scale = 1:46.3



25-0-0 / 25-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	16	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 142 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 25-0-0.
(lb) - Max Horz 2=111(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 25, 26, 27, 21, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 22, 23, 25, 26, 27, 28, 21, 20, 19, 18, 17

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-10-0 to 1-2-0, Exterior(2N) 1-2-0 to 12-6-0, Corner(3R) 12-6-0 to 15-6-0, Exterior(2N) 15-6-0 to 25-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 1.5x4 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, 23, 25, 26, 27, 21, 20, 19, 18, 17.

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

August 22,2023

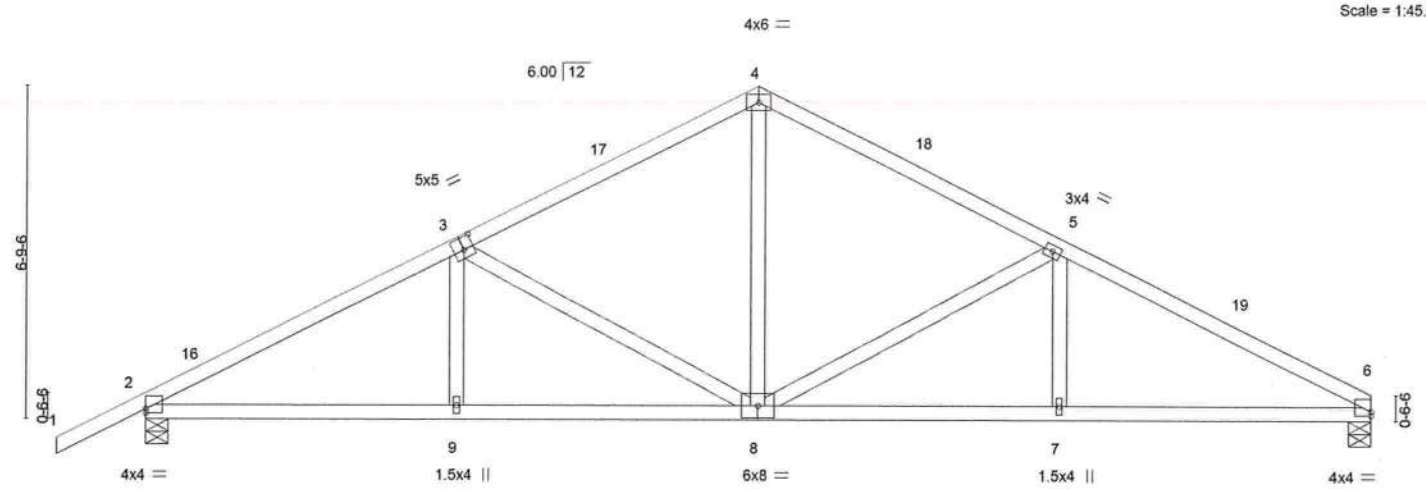
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C02	Common	4	1	T31375702
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:18 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-w2exd0enC9o1_dMSuwt70OFxkrUqM8DPECZ8mEylM6?

-1-10-0	6-4-0	12-6-0	18-8-0	25-0-0
1-10-0	6-4-0	6-2-0	6-2-0	6-4-0

Scale = 1:45.2



6-4-0	12-6-0	18-8-0	25-0-0
6-4-0	6-2-0	6-2-0	6-4-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.19	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 121 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=116(LC 11)
Max Uplift 2=-47(LC 12)
Max Grav 6=996(LC 1), 2=1114(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1655/89, 3-4=-1153/140, 4-5=-1183/152, 5-6=-1711/121
BOT CHORD 2-9=-26/1387, 8-9=-28/1384, 7-8=-48/1454, 6-7=-48/1454
WEBS 4-8=0/595, 5-8=-569/76, 5-7=0/272, 3-8=-478/46, 3-9=0/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 25-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

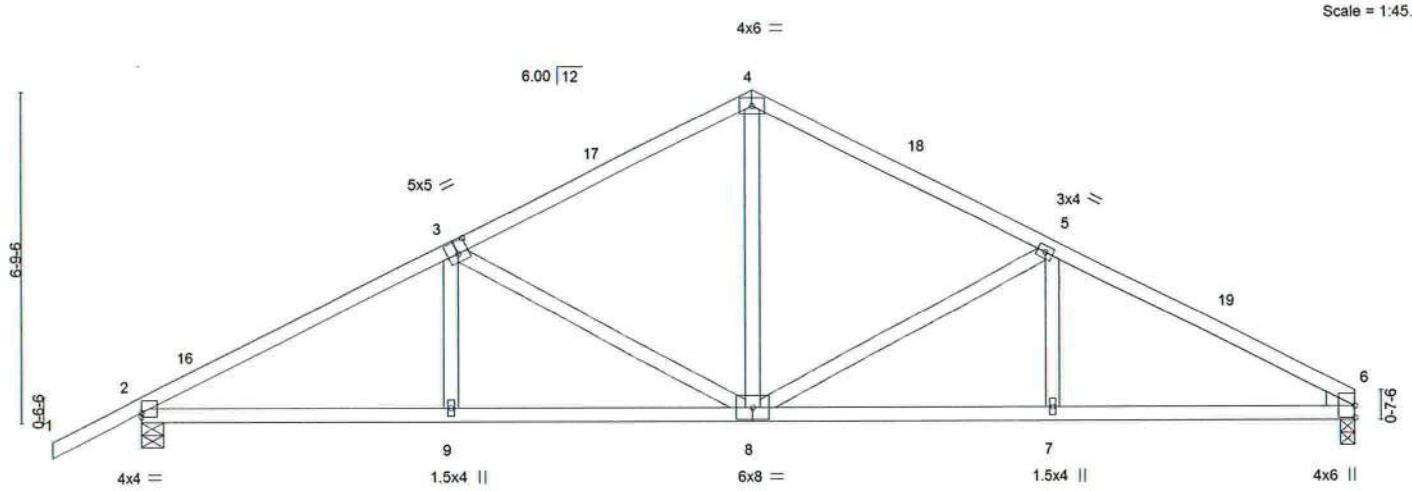
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C03	Common	5	1	T31375703
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:19 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-OECJrLfPzSwubnxeSdOMZbn6YFqz5bxZTsIhlgyIM6_

-1-10-0	6-4-0	12-6-0	18-8-0	24-10-0
1-10-0	6-4-0	6-2-0	6-2-0	6-2-0

Scale = 1:45.1



6-4-0	12-6-0	18-8-0	24-10-0
6-4-0	6-2-0	6-2-0	6-2-0

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

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	0.53	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.20	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 121 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=0-3-8, 2=0-5-8
Max Horz 2=115(LC 11)
Max Uplift 2=-47(LC 12)
Max Grav 6=989(LC 1), 2=1107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1641/90, 3-4=-1139/141, 4-5=-1167/151, 5-6=-1651/121
BOT CHORD 2-9=-28/1374, 8-9=-30/1371, 7-8=-48/1407, 6-7=-48/1407
WEBS 4-8=0/583, 5-8=-534/74, 5-7=0/258, 3-8=-478/46, 3-9=0/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 24-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

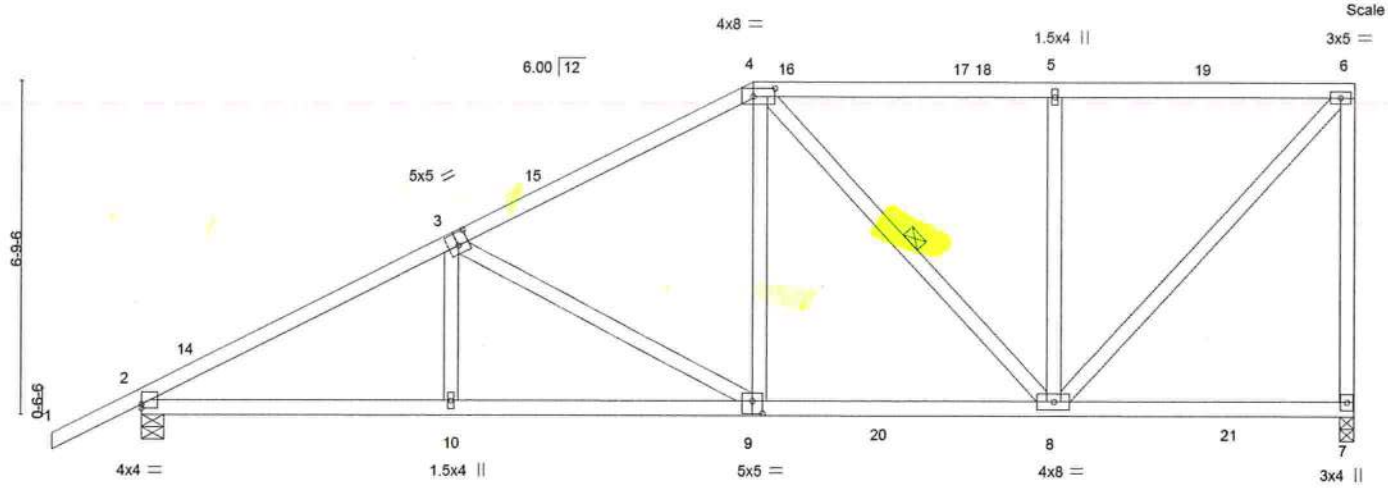
Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C04	Half Hip	1	1	T31375704
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:20 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-sRlh2hg1km2lDxWq0Lvb5pKF_fAiq2WihW2Fp6ylM5z

-1-10-0	6-4-0	12-6-0	18-8-0	24-10-0
1-10-0	6-4-0	6-2-0	6-2-0	6-2-0

Scale = 1:45.3



6-4-0	12-6-0	18-8-0	24-10-0
6-4-0	6-2-0	6-2-0	6-2-0

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

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	0.68	Vert(LL)	-0.10	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.20	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 147 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 4-8

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=206(LC 11)
Max Uplift 7=-14(LC 9), 2=-43(LC 12)
Max Grav 7=1136(LC 17), 2=1219(LC 17)

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

TOP CHORD	2-3=-1837/37, 3-4=-1256/106, 4-5=-831/114, 5-6=-831/114, 6-7=-1018/95
BOT CHORD	2-10=-207/1622, 9-10=-209/1616, 8-9=-177/1122
WEBS	3-10=0/272, 3-9=-567/36, 4-9=0/479, 4-8=-389/83, 5-8=-417/96, 6-8=-79/1209

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 12-6-0, Exterior(2R) 12-6-0 to 16-8-15, Interior(1) 16-8-15 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay	T31375705
SEAY	C05	Half Hip	1	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:26 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-NMdHswKtW0Vbd0L6?B9?T66pIccbYLtMaEjibQyIHkV

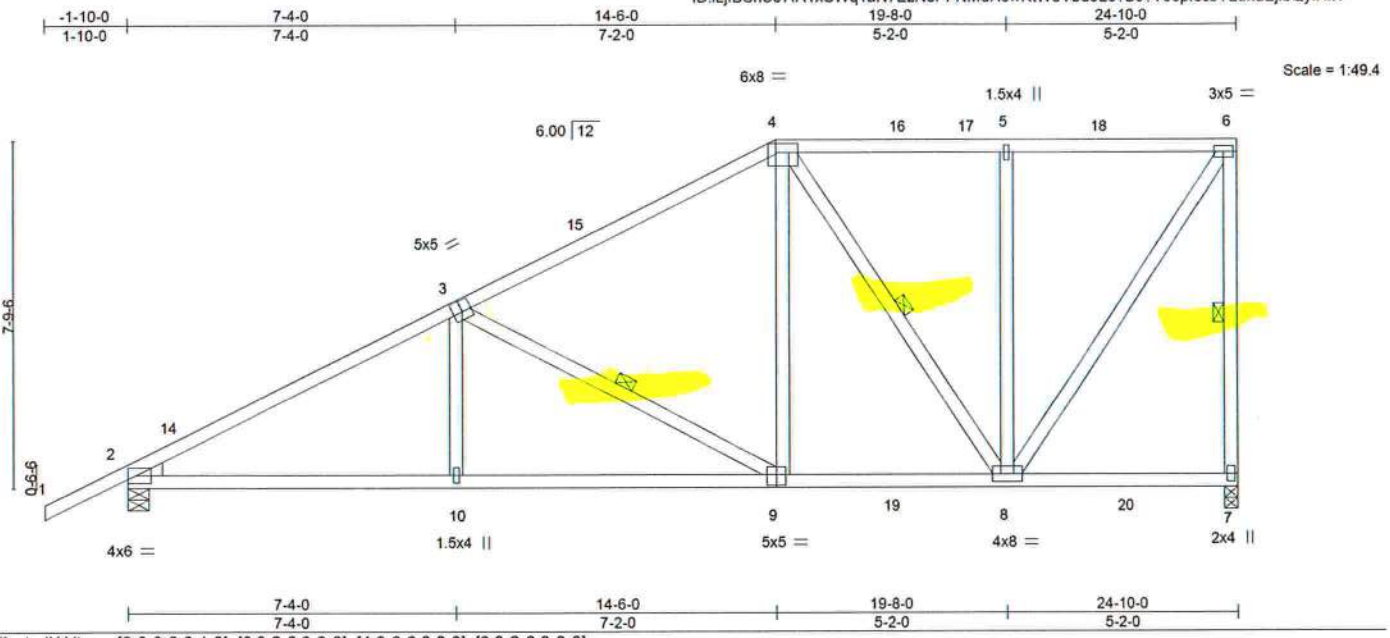


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [3:0-2-8,0-3-0], [4:0-6-0,0-2-8], [9:0-2-8,0-3-0]

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	0.74	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.24	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 155 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-7, 3-9, 4-8

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=236(LC 11)
Max Uplift 7=-16(LC 9), 2=-42(LC 12)
Max Grav 7=1147(LC 17), 2=1217(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1783/39, 3-4=-1075/115, 4-5=-638/124, 5-6=-638/124, 6-7=-1045/98
BOT CHORD 2-10=-212/1574, 9-10=-214/1568, 8-9=-179/960
WEBS 3-10=0/329, 3-9=-696/40, 4-9=0/533, 4-8=-540/99, 5-8=-342/84, 6-8=-87/1123

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 14-6-0, Exterior(2R) 14-6-0 to 18-8-15, Interior(1) 18-8-15 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 7 and 42 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C06	Half Hip	1	1	T31375706
					Job Reference (optional)

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:27 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-rYBf4GLVHKdSFAwJZugE0Jf3i0_aHkgWouSF7sylHkU

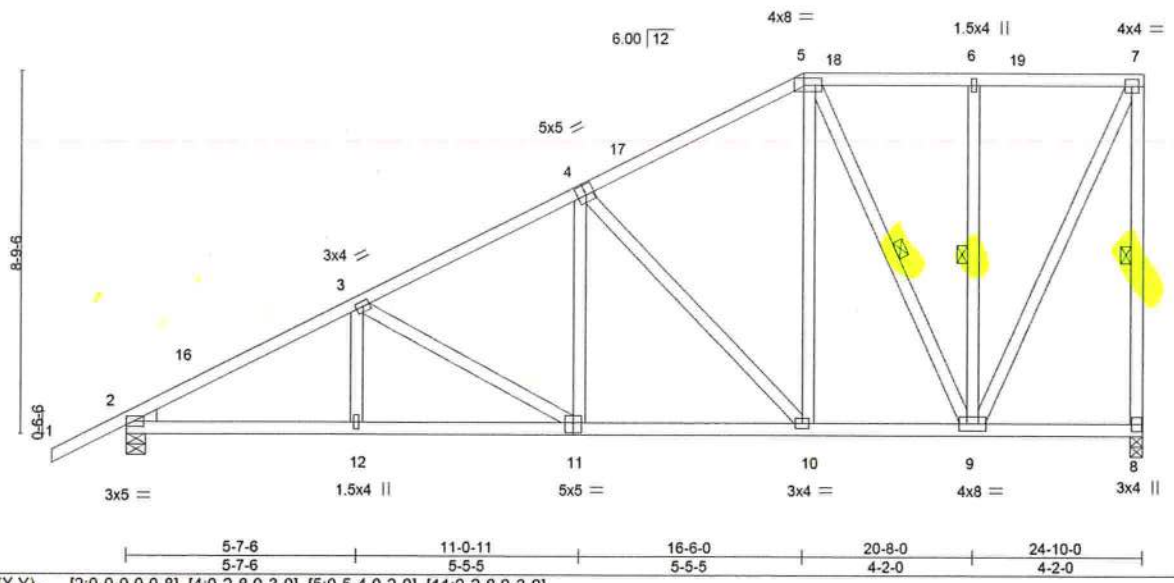


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [4:0-2-8,0-3-0], [5:0-5-4,0-2-0], [11:0-2-8,0-3-0]

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	0.44	Vert(LL)	-0.07	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.15	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 177 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-8, 5-9, 6-9

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=266(LC 11)
Max Uplift 8=-19(LC 9), 2=-41(LC 12)
Max Grav 8=983(LC 1), 2=1102(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1688/49, 3-4=-1252/93, 4-5=-770/126, 5-6=-401/138, 6-7=-401/138, 7-8=-942/102
BOT CHORD 2-12=-260/1438, 11-12=-260/1438, 10-11=-212/1031, 9-10=-167/654
WEBS 3-11=-454/56, 4-11=0/357, 4-10=-560/65, 5-10=0/536, 5-9=-574/94, 6-9=-274/83, 7-9=-103/924

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 16-6-0, Exterior(2R) 16-6-0 to 20-8-0, Interior(1) 20-8-0 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 8 and 41 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C07	Half Hip	1	1	T31375707

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:23 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-G0RqgjjW1hRJ4OFPhTTIjRyoJsBL1M48NUGvQRylM5w

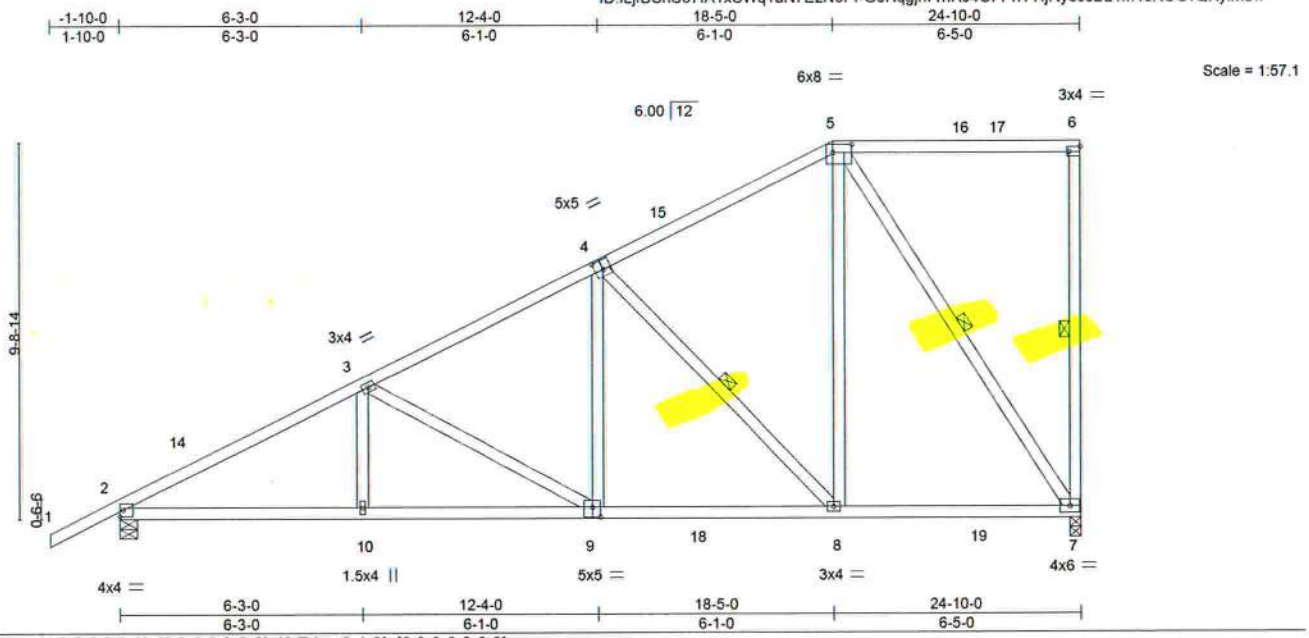


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-6-0,0-2-8], [6:Edge,0-1-8], [9:0-2-8,0-3-0]

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	0.48	Vert(LL)	-0.10	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.20	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 160 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-7, 4-8, 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=295(LC 11)
Max Uplift 7=-19(LC 9), 2=-39(LC 12)
Max Grav 7=1177(LC 17), 2=1229(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1903/54, 3-4=-1317/99, 4-5=-726/137
BOT CHORD 2-10=-264/1729, 9-10=-264/1729, 8-9=-209/1159, 7-8=-158/655
WEBS 3-10=0/259, 3-9=-635/65, 4-9=0/515, 4-8=-748/72, 5-8=0/853, 5-7=-1124/126

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 18-5-0, Exterior(2R) 18-5-0 to 22-7-14, Interior(1) 22-7-14 to 24-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	C08	Monopitch	1	1	T31375708
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:24 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-kC?Cu3jYo?ZAiYpcFA_XGfUvIGYZmvuIc80SyuyIM5v

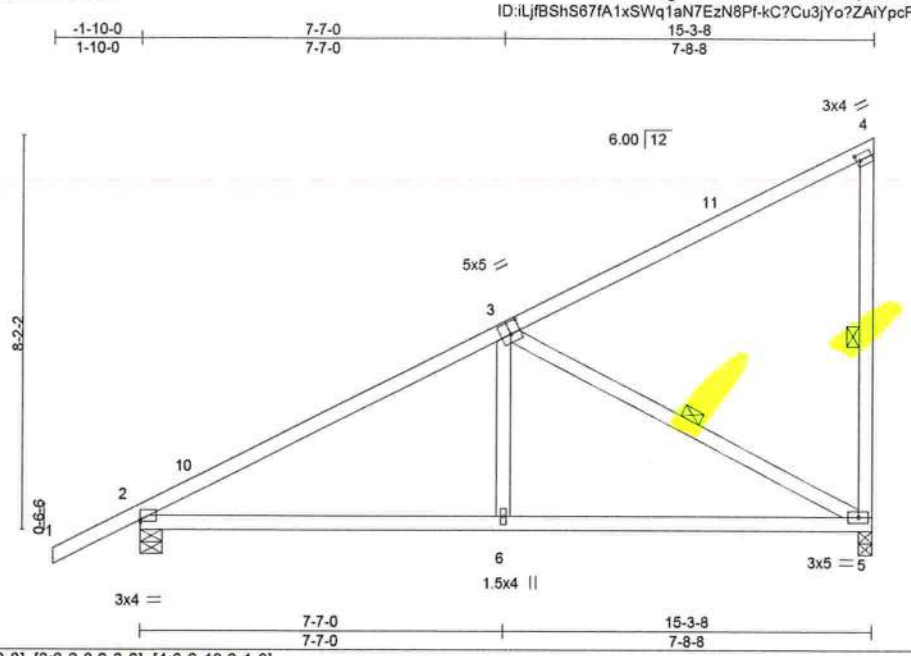


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [3:0-2-8,0-3-0], [4:0-0-13,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.14	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 80 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-5, 3-5

REACTIONS. (size) 2=0-5-8, 5=0-3-8
Max Horz 2=245(LC 11)
Max Uplift 2=-40(LC 12), 5=-11(LC 9)
Max Grav 2=722(LC 1), 5=599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-774/75
BOT CHORD 2-6=-196/594, 5-6=-198/590
WEBS 3-6=0/345, 3-5=-637/131

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 15-1-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

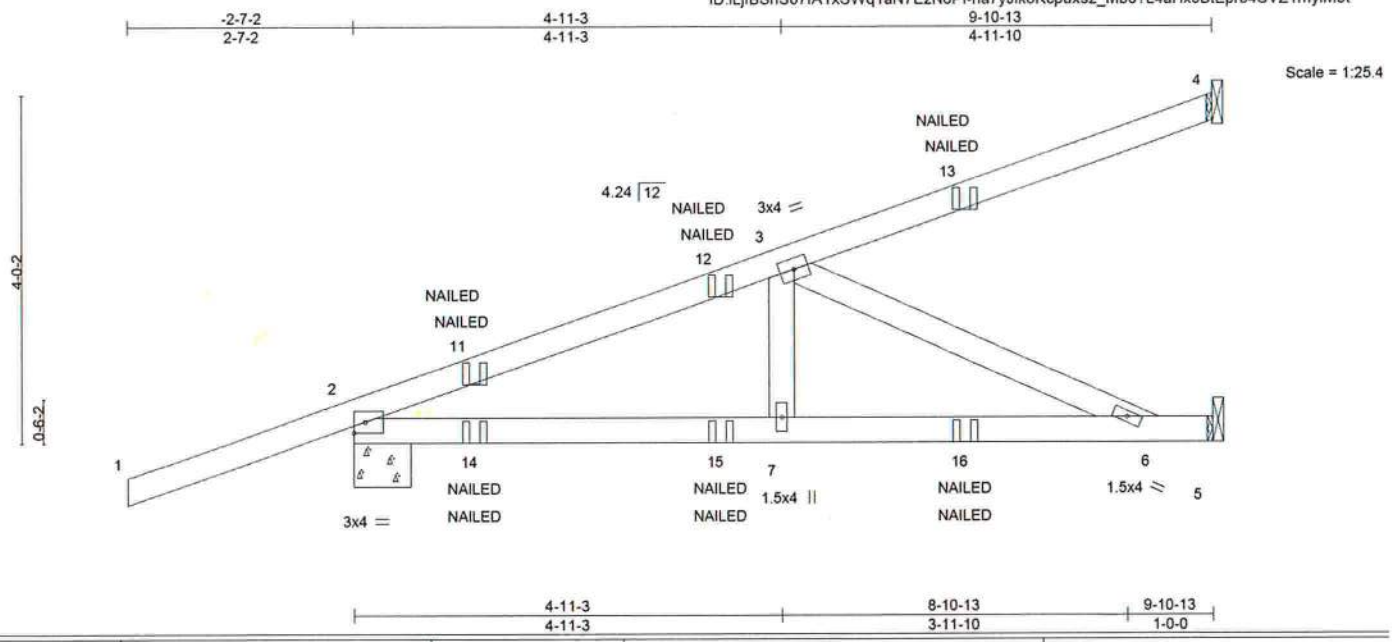
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	CJ01	Diagonal Hip Girder	1	1	T31375709
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:26 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-ha7yJlkoKcpuxsz_Mb0?L4aHx3BtEprb4SVZ1mylM5t



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.14	6-7	>852	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-7-12, 5=Mechanical
Max Horz 2=117(LC 8)
Max Uplift 4=-53(LC 8), 2=-178(LC 8), 5=-24(LC 8)
Max Grav 4=158(LC 1), 2=538(LC 28), 5=321(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-760/104
BOT CHORD 2-7=-141/660, 6-7=-141/660
WEBS 3-7=0/263, 3-6=-726/155

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=178.
7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
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, 5-8=-20
Concentrated Loads (lb)
Vert: 11=71(F=35, B=35) 13=-81(F=-40, B=-40) 14=71(F=35, B=35) 15=5(F=2, B=2) 16=-47(F=-24, B=-24)

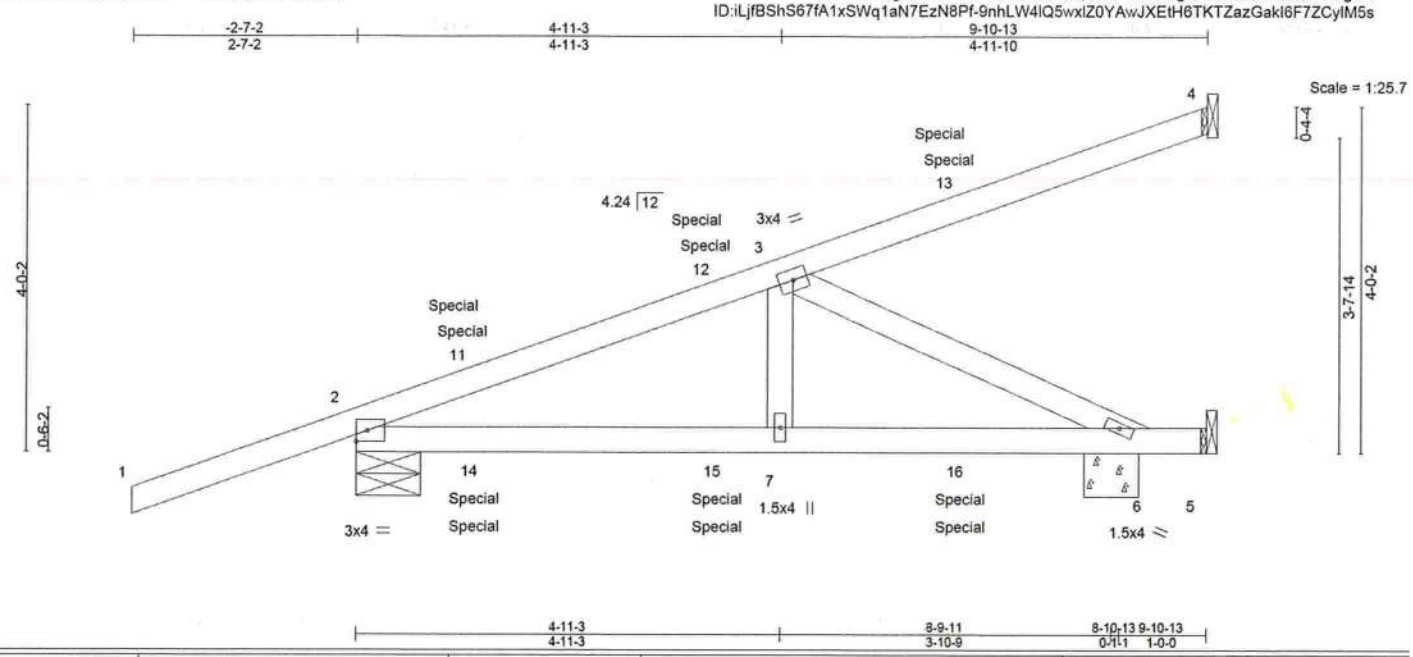
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	CJ02	Diagonal Hip Girder	1	1	T31375710
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:27 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-9nhLW4lQ5wxlZ0YAwJXEtH6TKTZazGakl6F7ZCylM5s



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	0.54	Vert(LL)	0.03	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	0.05	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-9-2, 5=Mechanical, 6=0-7-12
Max Horz 2=150(LC 8)
Max Uplift 4=-66(LC 8), 2=-193(LC 8), 5=-185(LC 3)
Max Grav 4=153(LC 1), 2=517(LC 28), 6=515(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-648/127
BOT CHORD 2-7=-167/579, 6-7=-167/579
WEBS 3-6=-636/183

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=193, 5=185.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 109 lb up at 1-4-11, 57 lb down and 109 lb up at 1-4-10, 81 lb down and 61 lb up at 4-2-10, 81 lb down and 61 lb up at 4-2-10, and 124 lb down and 102 lb up at 7-0-9, and 124 lb down and 102 lb up at 7-0-9 on top chord, and 14 lb down and 66 lb up at 1-4-11, 14 lb down and 66 lb up at 1-4-10, 17 lb down and 2 lb up at 4-2-10, 17 lb down and 2 lb up at 4-2-10, and 36 lb down at 7-0-9, and 36 lb down at 7-0-9 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, 5-8=-20
Concentrated Loads (lb)
Vert: 11=71(F=35, B=35) 13=-81(F=-40, B=-40) 14=71(F=35, B=35) 15=5(F=2, B=2) 16=-47(F=-24, B=-24)

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

August 22,2023

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

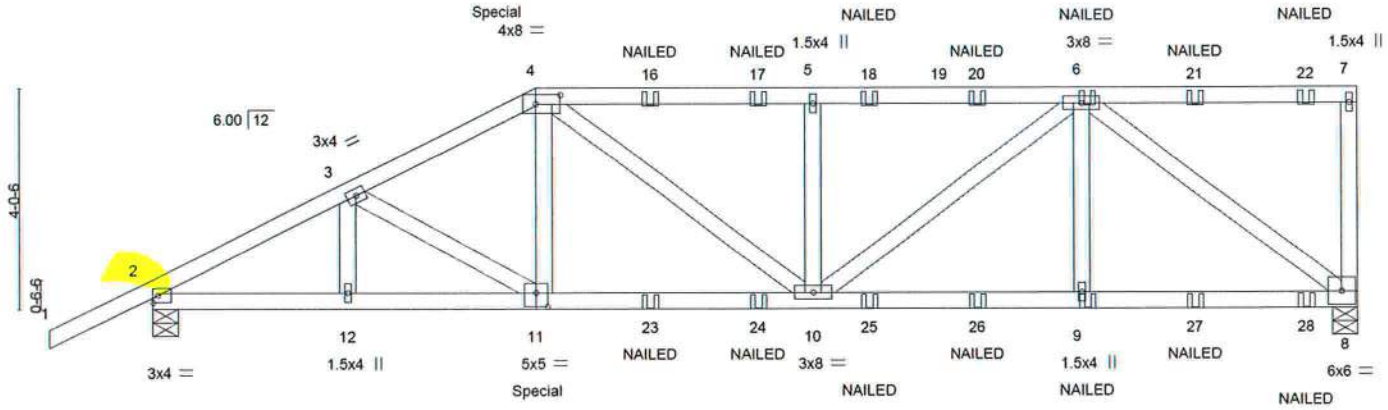
Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D01GIR	Half Hip Girder	1	2	T31375711

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:29 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-59o5xmngdXBToJiZ2kaiziCsAHJmRA61mQkDe5ylM5q

-1-10-0	3-7-0	7-0-0	12-0-9	16-11-7	22-0-0
1-10-0	3-7-0	3-5-0	5-0-9	4-10-13	5-0-9

Scale = 1:40.3



3-7-0	7-0-0	12-0-9	16-11-7	22-0-0
3-7-0	3-5-0	5-0-9	4-10-13	5-0-9

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

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	0.33	Vert(LL)	0.06	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.11	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	-0.03	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 249 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, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 8=0-5-8, 2=0-5-8
Max Horz 2=123(LC 31)
Max Uplift 8=-1415(LC 5), 2=-924(LC 8)
Max Grav 8=1212(LC 36), 2=1120(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1740/1676, 3-4=-1611/1862, 4-5=-1737/2054, 5-6=-1737/2054, 7-8=-264/115
BOT CHORD 2-12=-1521/1529, 11-12=-1521/1529, 10-11=-1694/1446, 9-10=-1500/1280, 8-9=-1500/1280
WEBS 3-11=-379/101, 4-11=-380/0, 4-10=-465/416, 5-10=-620/246, 6-10=-699/596, 6-9=-473/50, 6-8=-1567/1819

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=1415, 2=924.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 256 lb down and 208 lb up at 7-0-0 on top chord, and 411 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:
August 22,2023

Continued on page 2

LOAD CASE(S) Standard

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D01GIR	Half Hip Girder	1	2	T31375711 Job Reference (optional)

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, 8-13=-20
   Concentrated Loads (lb)
   Vert: 4=-185(F) 11=290(F) 9=147(F) 6=-116(F) 16=-116(F) 17=-116(F) 18=-116(F) 20=-116(F) 21=-116(F) 22=-123(F) 23=147(F) 24=147(F) 25=147(F) 26=147(F) 27=147(F) 28=145(F)

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

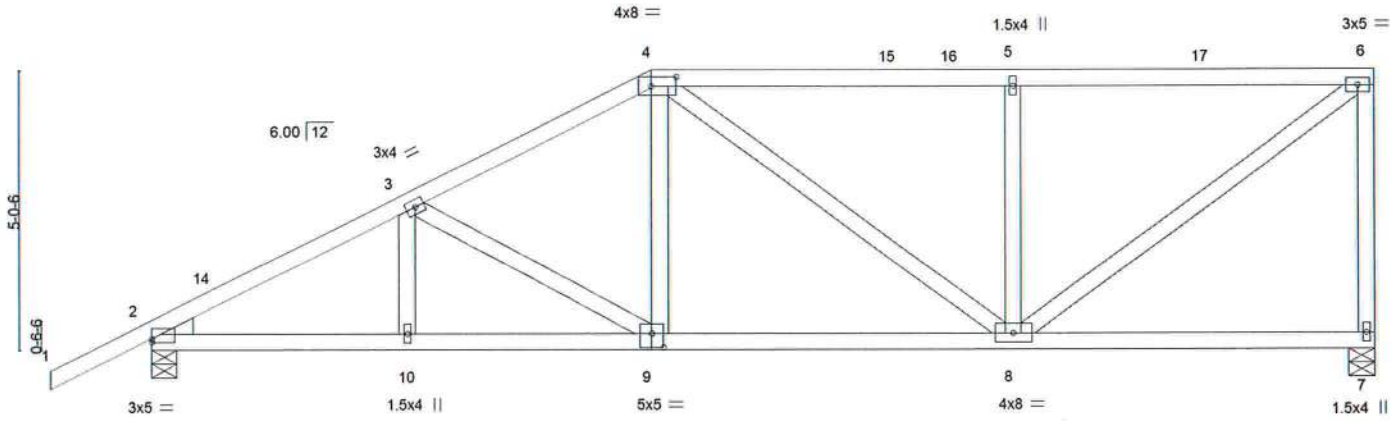
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D02	Half Hip	1	1	T31375712
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:30 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-ZMMT86nJOqJKQTHlbR5xVwk0WhboAdwA_4TnAXylM5p

-1-10-0	4-7-0	9-0-0	15-6-0	22-0-0
1-10-0	4-7-0	4-5-0	6-6-0	6-6-0

Scale = 1:39.8



4-7-0	9-0-0	15-6-0	22-0-0
4-7-0	4-5-0	6-6-0	6-6-0

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

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	0.42	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 124 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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-5-8, 2=0-5-8
Max Horz 2=153(LC 11)
Max Uplift 7=-13(LC 9), 2=-45(LC 12)
Max Grav 7=870(LC 1), 2=989(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1461/42, 3-4=-1158/95, 4-5=-896/97, 5-6=-896/97, 6-7=-813/90
BOT CHORD 2-10=-207/1239, 9-10=-207/1239, 8-9=-163/988
WEBS 3-9=-294/51, 4-9=0/300, 5-8=-439/103, 6-8=-73/1086

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 21-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

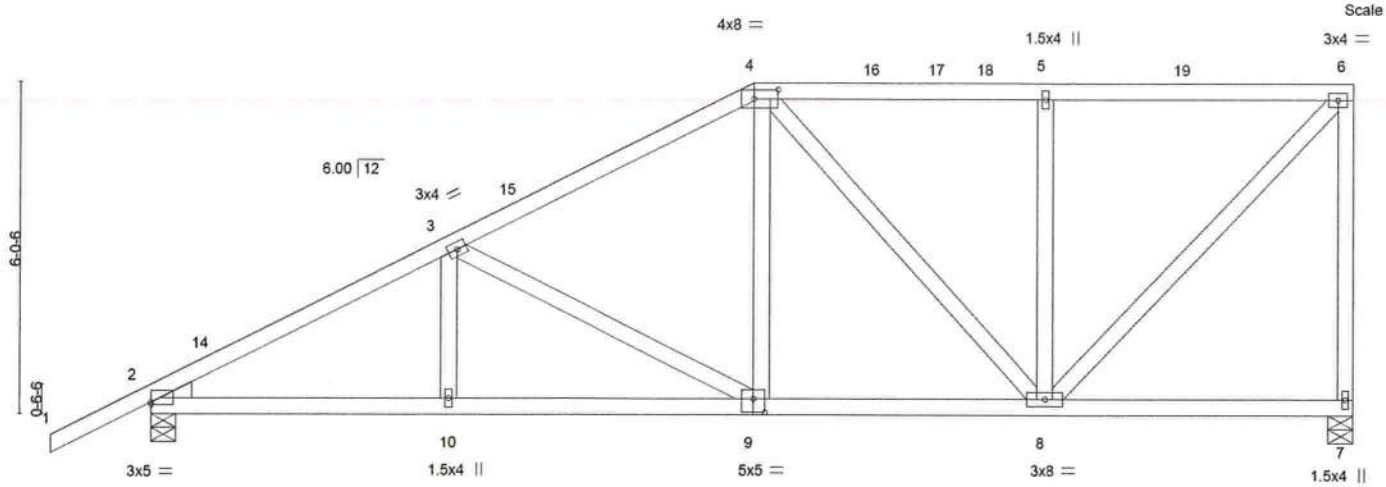
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D03	Half Hip	1	1	T31375713
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:32 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-VkUEZopZvSZ2fnR8js7PaLqNkUH0eWLTSOyuEQylM5n

-1-10-0	5-5-4	11-0-0	16-4-4	22-0-0
1-10-0	5-5-4	5-6-12	5-4-4	5-7-12

Scale = 1:40.5



5-5-4	11-0-0	16-4-4	22-0-0
5-5-4	5-6-12	5-4-4	5-7-12

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

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	0.37	Vert(LL)	-0.05	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.13	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 131 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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-5-8, 2=0-5-8
Max Horz 2=183(LC 11)
Max Uplift 7=-16(LC 9), 2=-44(LC 12)
Max Grav 7=870(LC 21), 2=989(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1460/49, 3-4=-1018/104, 4-5=-663/108, 5-6=-663/108, 6-7=-820/97
BOT CHORD 2-10=-222/1235, 9-10=-222/1235, 8-9=-168/842
WEBS 3-9=-445/61, 4-9=0/342, 4-8=-265/76, 5-8=-370/90, 6-8=-81/936

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 21-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay	T31375714
SEAY	D04	Half Hip	1	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl

Run: 8.520 s May 5 2022 Print: 8.530 s Mar 9 2023 MiTek Industries, Inc. Tue Aug 22 14:07:27 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-rYBf4GLVHKdSFAwJZugE0Jf1p0_zHmjWouSF7sylHkU

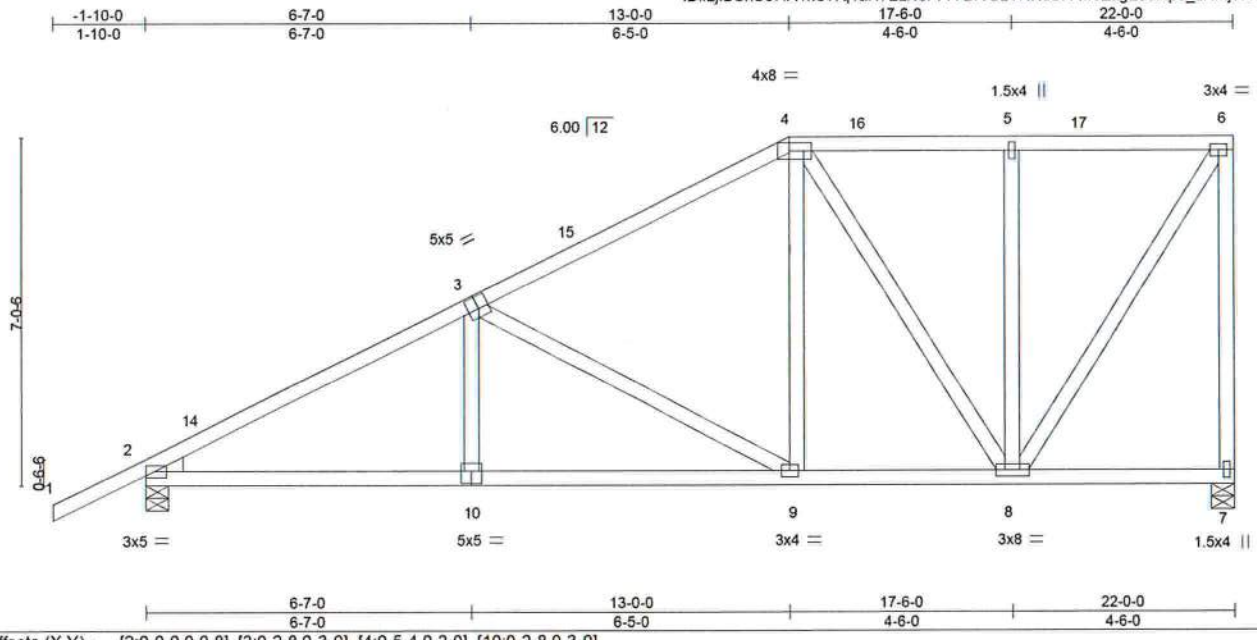


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8], [3:0-2-8,0-3-0], [4:0-5-4,0-2-0], [10:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.18	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 139 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, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 7=0-5-8, 2=0-5-8
Max Horz 2=213(LC 11)
Max Uplift 7=-18(LC 9), 2=-43(LC 12)
Max Grav 7=870(LC 1), 2=989(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1357/58, 3-4=-846/103, 4-5=-465/120, 5-6=-465/120, 6-7=-824/103
BOT CHORD 2-10=-216/1120, 9-10=-218/1118, 8-9=-163/713
WEBS 3-9=-471/61, 4-9=0/437, 4-8=-445/82, 5-8=-295/76, 6-8=-92/842

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-6-0, Interior(1) 17-6-0 to 21-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7 and 43 lb uplift at joint 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D05	Half Hip	1	1	T31375715
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:34 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-S7c__UqpR3plv5aXqH9tgmvhKly_6MkmviR_JlylM5l

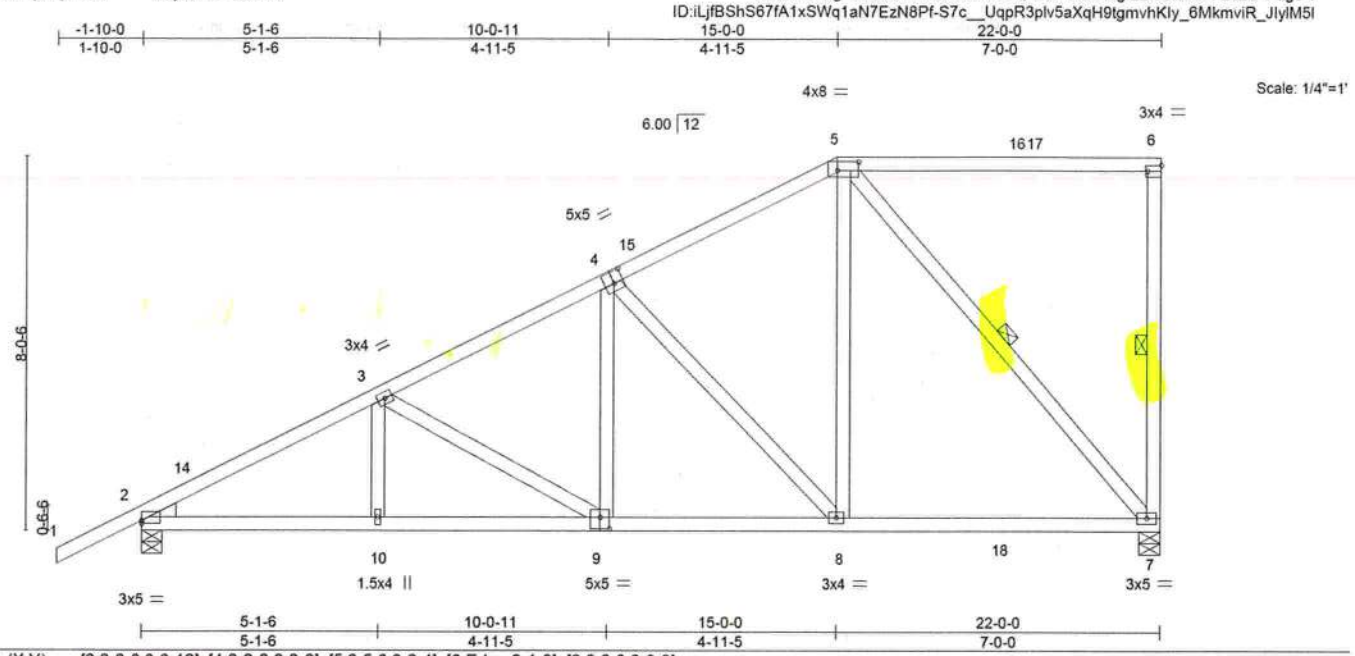


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [4:0-2-8,0-3-0], [5:0-5-8,0-2-4], [6:Edge,0-1-8], [9:0-2-8,0-3-0]

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	0.49	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.15	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 138 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.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS. (size) 7=0-5-8, 2=0-5-8
Max Horz 2=244(LC 11)
Max Uplift 7=-20(LC 9), 2=-41(LC 12)
Max Grav 7=1013(LC 17), 2=1087(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1642/45, 3-4=-1203/87, 4-5=-738/120
BOT CHORD 2-10=-244/1486, 9-10=-244/1486, 8-9=-201/1060, 7-8=-155/687
WEBS 3-9=-473/51, 4-9=0/375, 4-8=-562/66, 5-8=0/696, 5-7=-979/120

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 21-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

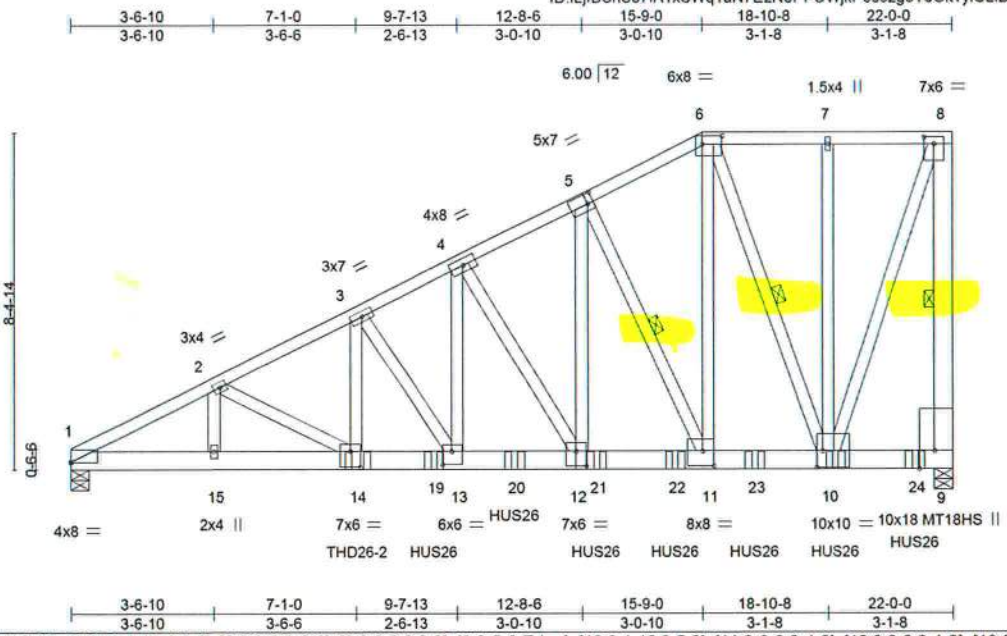
August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D06GIR	Half Hip Girder	1	2	T31375716

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:36 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-OWjkP9s3zg3T8OkvyiCLIB_z?5XraAQ3N0w5NBylM5j



Scale = 1:55.1

Plate Offsets (X,Y)-- [1:0-0-0,0-0-4], [5:0-1-12,0-3-0], [6:0-6-0,0-2-8], [8:0-3-0,0-2-0], [9:0-5-8,Edge], [10:0-1-12,0-5-0], [11:0-3-8,0-4-8], [12:0-3-0,0-4-8], [13:0-2-12,0-4-0], [14:0-3-0,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.19	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.37	12-13	>698	180	MT18HS	244/190
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 410 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
1-12: 2x6 SP SS
WEBS 2x4 SP No.2 *Except*
8-9: 2x6 SP No.2

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

REACTIONS. (size) 9=0-5-8, 1=0-5-8
Max Horz 1=241(LC 7)
Max Uplift 9=-112(LC 5), 1=-73(LC 8)
Max Grav 9=9266(LC 2), 1=5974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-11624/161, 2-3=-12202/192, 3-4=-10301/172, 4-5=-8070/155, 5-6=-5396/137, 6-7=-2900/112, 7-8=-2900/112, 8-9=-8026/129
BOT CHORD 1-15=-192/10316, 14-15=-192/10316, 13-14=-197/10893, 12-13=-165/9187, 11-12=-136/6999, 10-11=-113/4934
WEBS 2-15=-655/48, 2-14=-160/769, 3-14=-46/3079, 3-13=-2983/89, 4-13=-58/4642, 4-12=-4311/103, 5-12=-78/5710, 5-11=-5186/111, 6-11=-78/7459, 6-10=-5611/73, 8-10=-106/8399

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 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 3-14 2x4 - 1 row at 0-4-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are MT20 plates unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=112.

Continued on page 2

JULIUS LEE LICENSE No 34869 STATE OF FLORIDA PROFESSIONAL ENGINEER

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	D06GIR	Half Hip Girder	1	2	T31375716
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:36 2023 Page 2
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-OWjkP9s3zg3T8OkvyiCLIB_z?5XraAQ3N0w5NBylM5j

NOTES-

11) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
12) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 21-0-12 to connect truss(es) to back face of bottom chord.
13) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-6=-60, 6-8=-60, 9-16=-20
   Concentrated Loads (lb)
   Vert: 14=-3043(B) 10=-1408(B) 19=-1408(B) 20=-1408(B) 21=-1408(B) 22=-1408(B) 23=-1408(B) 24=-1411(B)

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

August 22,2023

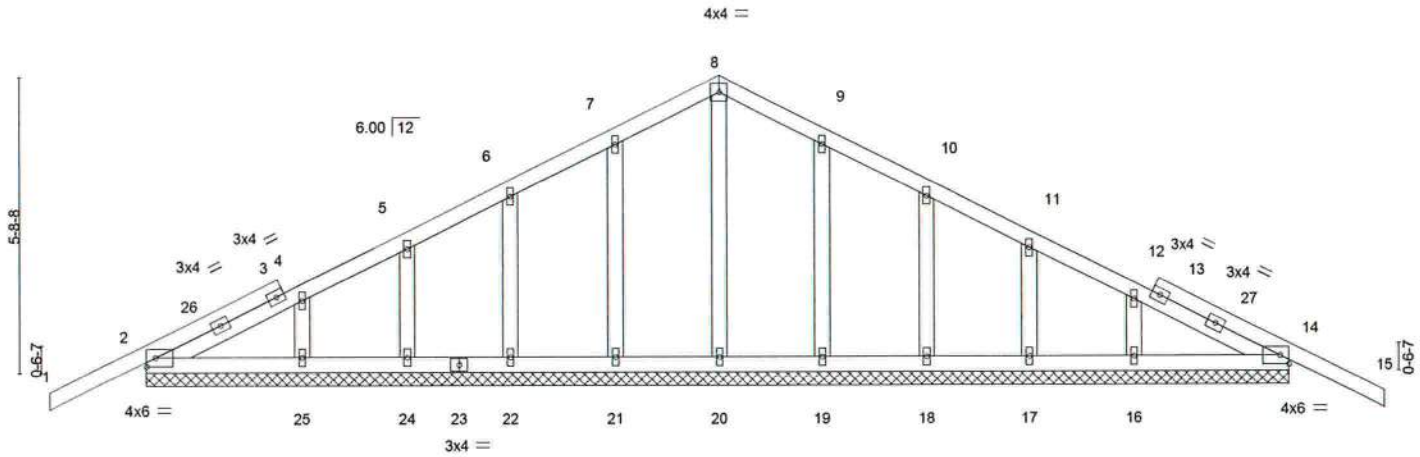
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	E01GE	Common Supported Gable	1	1	T31375717
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:37 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-siH7cVtik_BKmYJ5WPjaHOXGyV5eJriCbggewdylM5i

-1-10-0 / 1-10-0 | 11-0-0 / 11-0-0 | 22-0-0 / 11-0-0 | 23-10-0 / 1-10-0

Scale = 1:42.5



22-0-0 / 22-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.02	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 123 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 22-0-0.
(lb) - Max Horz 2=101(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 24, 25, 19, 18, 17, 16 except 2=258(LC 1), 14=258(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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-10-0 to 1-2-0, Exterior(2N) 1-2-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 1.5x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 19, 18, 17.
11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

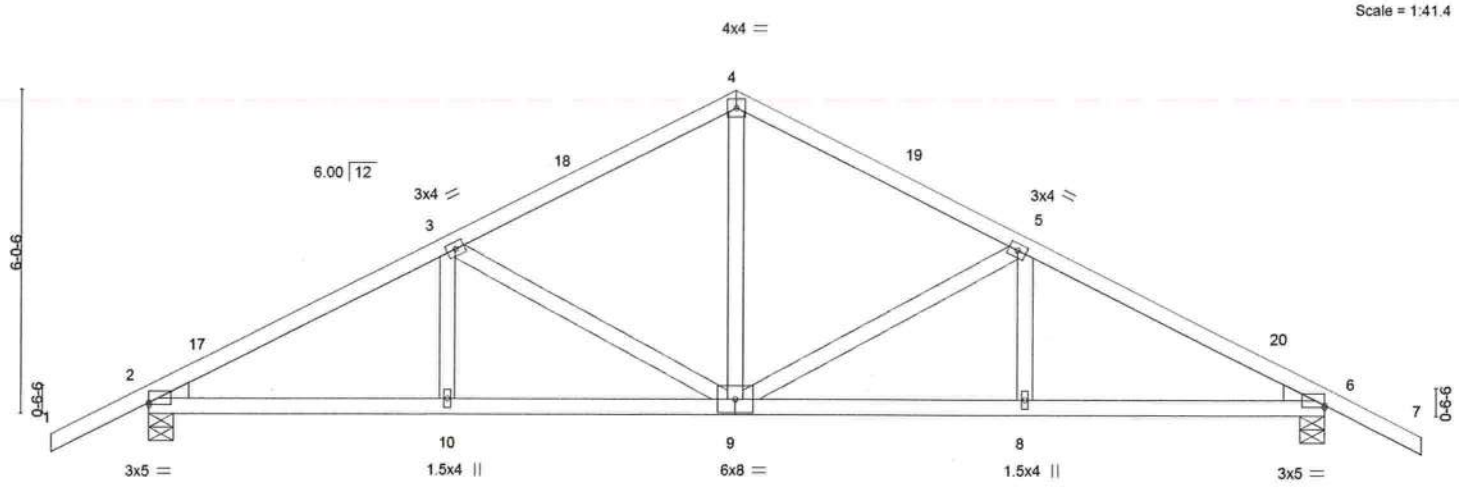
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	E02	Common	1	1	T31375718
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:38 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-KurVqruKVlJBNiul37Epqc4OEvKd2E0MqJPCS4ylM5h

-1-10-0	5-7-0	11-0-0	16-5-0	22-0-0	23-10-0
1-10-0	5-7-0	5-5-0	5-5-0	5-7-0	1-10-0

Scale = 1:41.4



5-7-0	11-0-0	16-5-0	22-0-0
5-7-0	5-5-0	5-5-0	5-7-0

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

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	0.37	Vert(LL)	-0.06	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 111 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.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=106(LC 11)
Max Uplift 2=-45(LC 12), 6=-45(LC 12)
Max Grav 2=990(LC 1), 6=990(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1454/116, 3-4=-1021/143, 4-5=-1021/143, 5-6=-1454/116
BOT CHORD 2-10=-10/1228, 9-10=-10/1228, 8-9=-28/1228, 6-8=-28/1228
WEBS 4-9=-11/522, 5-9=-460/74, 3-9=-460/74

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

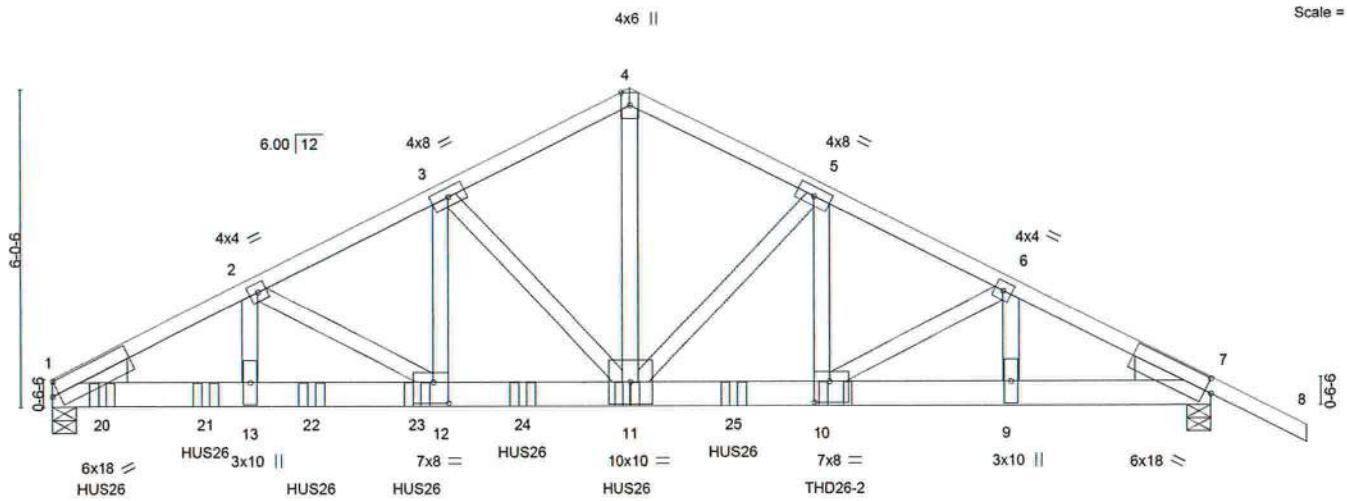
Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	E03GIR	Common Girder	1	2	T31375719

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:40 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-GHzFFXva1vavd02gBYGHv19b6jxDWzveIduJWyyIM5f

3-9-6	7-4-11	11-0-0	14-7-5	18-2-10	22-0-0	23-10-0
3-9-6	3-7-5	3-7-5	3-7-5	3-7-5	3-9-6	1-10-0

Scale = 1:41.9



3-9-6	7-4-11	11-0-0	14-7-5	18-2-10	22-0-0
3-9-6	3-7-5	3-7-5	3-7-5	3-7-5	3-9-6

Plate Offsets (X,Y)-- [1:Edge,0-3-1], [7:0-1-9,0-3-1], [10:0-3-8,0-4-12], [12:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.92	Vert(LL)	-0.20	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.40	10-11	>666	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.09	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 289 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 7=0-5-8
Max Horz 1=-103(LC 6)
Max Grav 1=8956(LC 2), 7=6069(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-15163/0, 2-3=-12701/0, 3-4=-9405/0, 4-5=-9403/0, 5-6=-12266/0, 6-7=-11555/0
BOT CHORD 1-13=0/13505, 12-13=0/13505, 11-12=0/11344, 10-11=0/10948, 9-10=0/10255, 7-9=0/10255
WEBS 4-11=0/8125, 5-11=-3749/0, 5-10=0/3787, 6-10=0/897, 6-9=-813/0, 3-11=-4375/0, 3-12=0/4489, 2-12=-2492/0, 2-13=0/2229

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 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-11-4 from the left end to 12-11-4 to connect truss(es) to back face of bottom chord.
9) Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 14-10-8 from the left end to connect truss(es) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date: August 22,2023

LOAD CASE(S) Standard

Continued on page 2

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

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, 14-17=-20
   Concentrated Loads (lb)
   Vert: 11=-1408(B) 10=-2953(B) 20=-1409(B) 21=-1408(B) 22=-1408(B) 23=-1408(B) 24=-1408(B) 25=-1408(B)

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

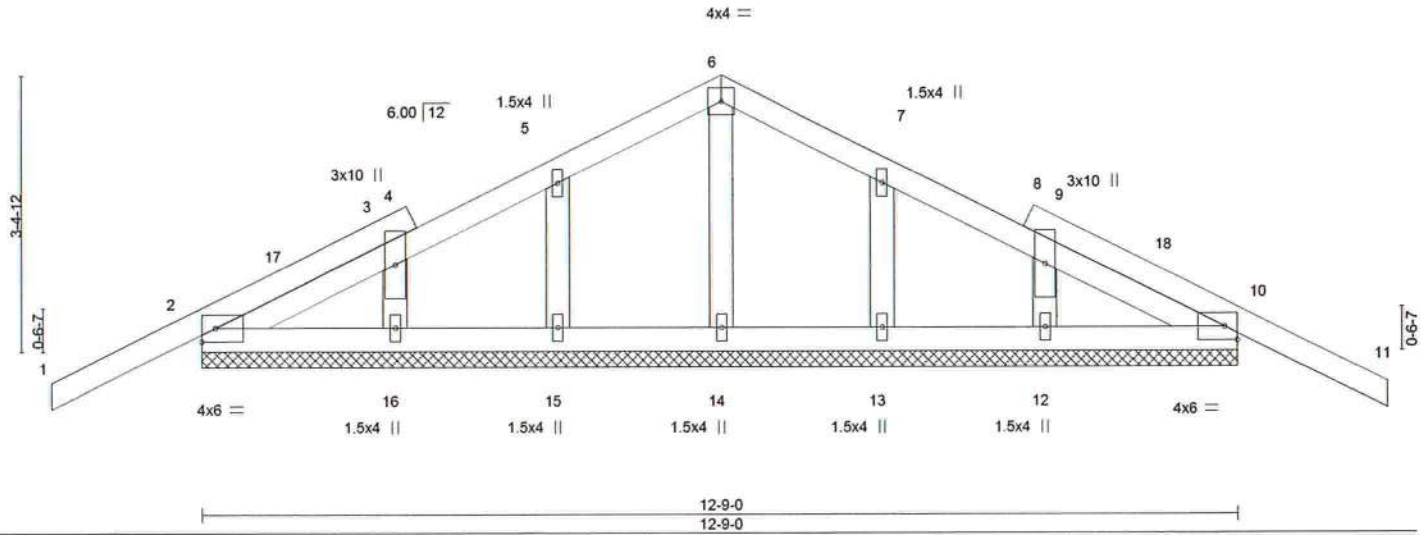
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	F01GE	Common Supported Gable	1	1	T31375720
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:42 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-Df50gDxqZWqdsJC3lyII_SE6hWp6_5SxlxNPbrylM5d

-1-10-0	6-4-8	12-9-0	14-7-0
1-10-0	6-4-8	6-4-8	1-10-0

Scale = 1:27.2



12-9-0
12-9-0

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	0.21	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.02	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 67 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 12-9-0.
(lb) - Max Horz 2=62(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-10-0 to 1-2-0, Exterior(2N) 1-2-0 to 6-4-8, Corner(3R) 6-4-8 to 9-4-8, Exterior(2N) 9-4-8 to 14-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

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

August 22,2023

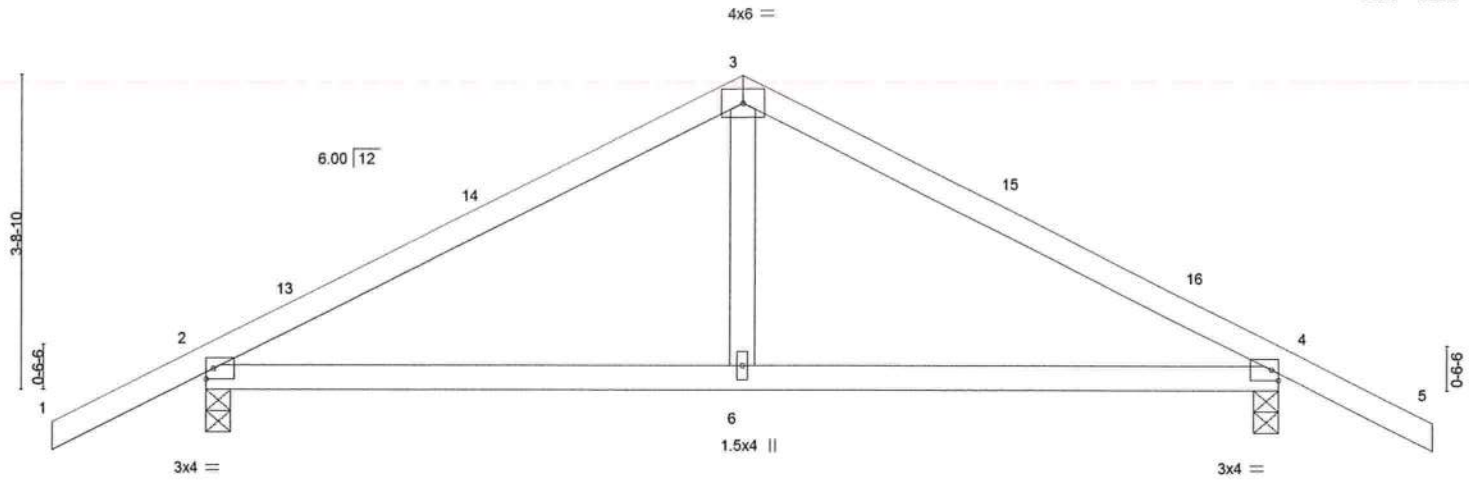
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	F02	Common	2	1	T31375721
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:43 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-hseOtZxSKqyUUTmFsgq_XfnFFw42jY05_b7z7HyIM5c

-1-10-0	6-4-8	12-9-0	14-7-0
1-10-0	6-4-8	6-4-8	1-10-0

Scale = 1:26.3



6-4-8	12-9-0
6-4-8	6-4-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.03	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.06	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 51 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-68(LC 10)
Max Uplift 2=-105(LC 12), 4=-105(LC 12)
Max Grav 2=620(LC 1), 4=620(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-660/215, 3-4=-660/215
BOT CHORD 2-6=-56/524, 4-6=-56/524
WEBS 3-6=0/272

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 6-4-8, Exterior(2R) 6-4-8 to 9-4-8, Interior(1) 9-4-8 to 14-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=105, 4=105.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

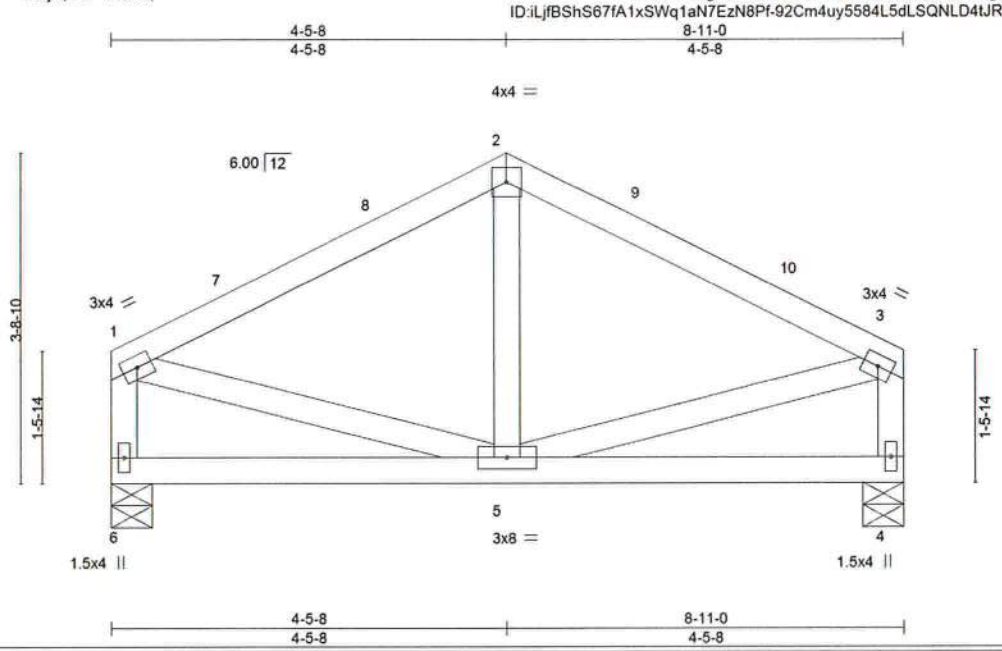
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	F03	Common	2	1	T31375722
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:44 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-92Cm4uy5584L5dLSQNLD4tJRnKSNS?NECFsWfjylM5b



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	0.30	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.02	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 48 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 6=0-5-8, 4=0-5-8
Max Horz 6=-71(LC 10)
Max Uplift 6=-40(LC 12), 4=-40(LC 12)
Max Grav 6=345(LC 1), 4=345(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-304/141, 2-3=-304/141, 1-6=-312/172, 3-4=-312/172

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-5-8, Exterior(2R) 4-5-8 to 7-5-8, Interior(1) 7-5-8 to 8-9-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	J1	Jack-Open	32	1	T31375723
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:45 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-dEm8IEzjsRCCjnwe_5sSc4sX0kjQBSTORvc4CAylM5a

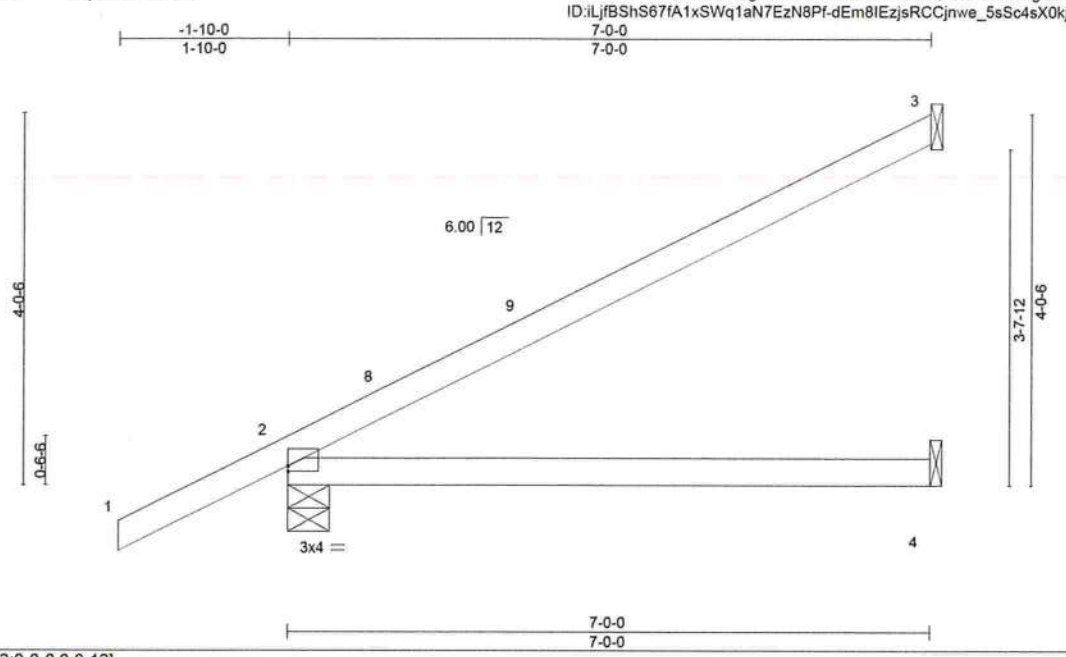


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12]

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	0.59	Vert(LL)	-0.09	4-7	>908	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	4-7	>393	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=117(LC 12)
Max Uplift 3=-46(LC 12), 2=-29(LC 12)
Max Grav 3=185(LC 1), 2=402(LC 1), 4=125(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	J1A	Jack-Open	8	1	T31375724
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:46 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-5RKWVa_LclK3LxVqXoNh9IPje74DwvjXgZLdkcylM5Z

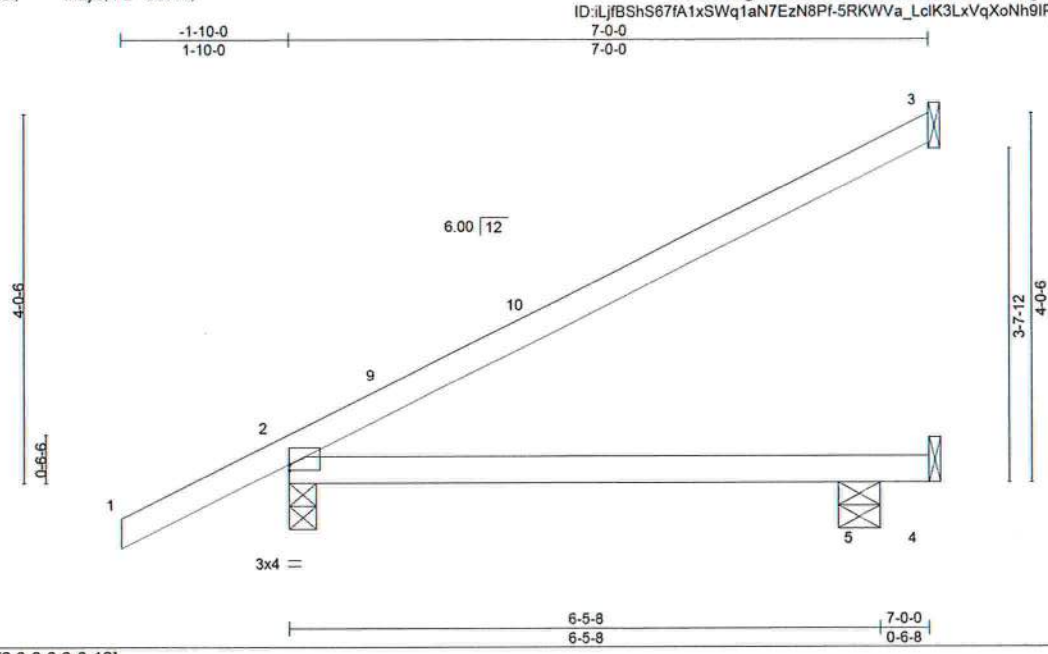


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12]

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	0.54	Vert(LL)	0.06	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.09	5-8	>864	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 25 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical, 5=0-5-8
Max Horz 2=149(LC 12)
Max Uplift 3=-84(LC 12), 2=-55(LC 12), 4=-222(LC 3)
Max Grav 3=197(LC 17), 2=370(LC 1), 5=400(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 6-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2 except (jt=lb) 4=222.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

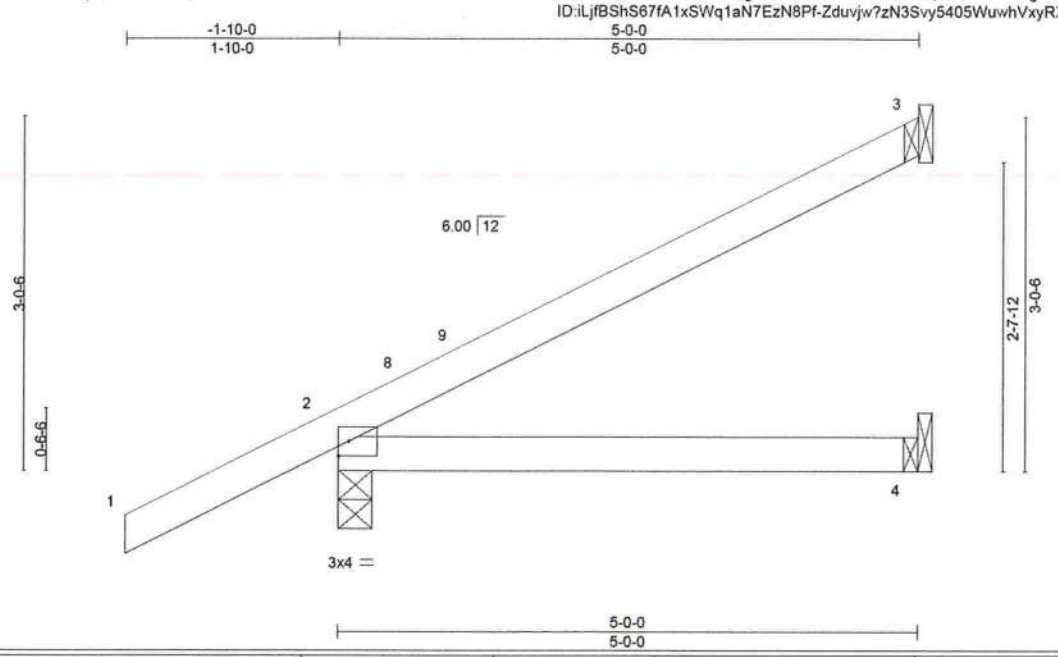
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	J2	Jack-Open	4	1	T31375725
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:47 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-Zduvjw?zN3Svy5405WuwhVxyRXT6fMzgvD5AG2ylM5Y



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)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=116(LC 12)
Max Uplift 3=-56(LC 12), 2=-54(LC 12)
Max Grav 3=141(LC 17), 2=328(LC 1), 4=88(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

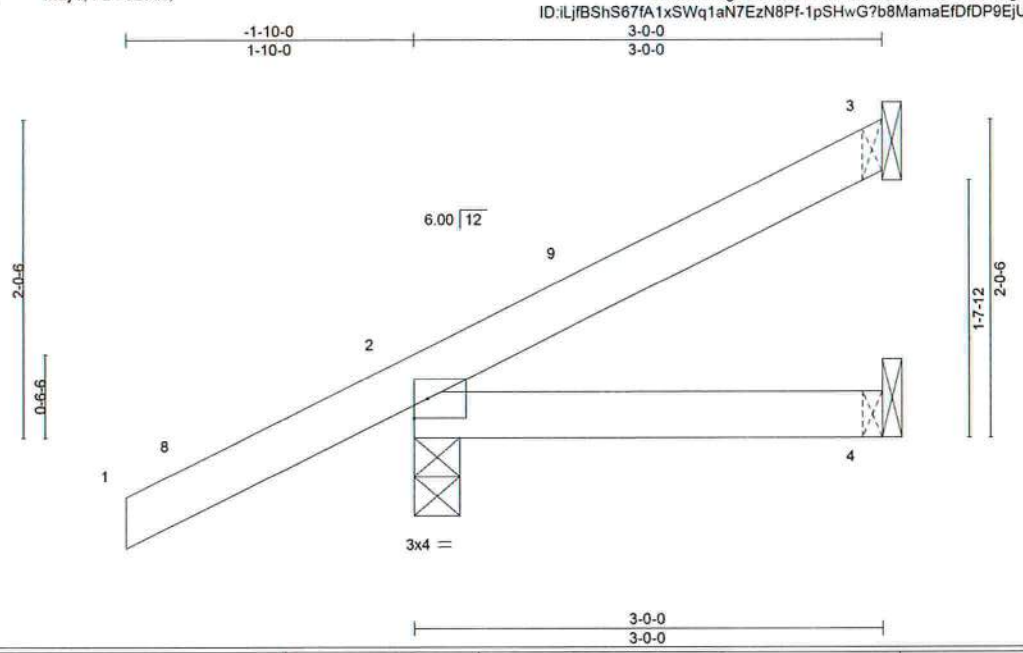
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

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

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	J3	Jack-Open	4	1	T31375726
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:48 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-1pSHwG?b8MamaEfDfDP9EjU8Lxr_OpDq7tqkpUylM5X



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	0.20	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=83(LC 12)
Max Uplift 3=-29(LC 12), 2=-60(LC 12)
Max Grav 3=73(LC 17), 2=262(LC 1), 4=49(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -1-10-0 to 1-2-0, Interior(1) 1-2-0 to 2-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

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

August 22,2023

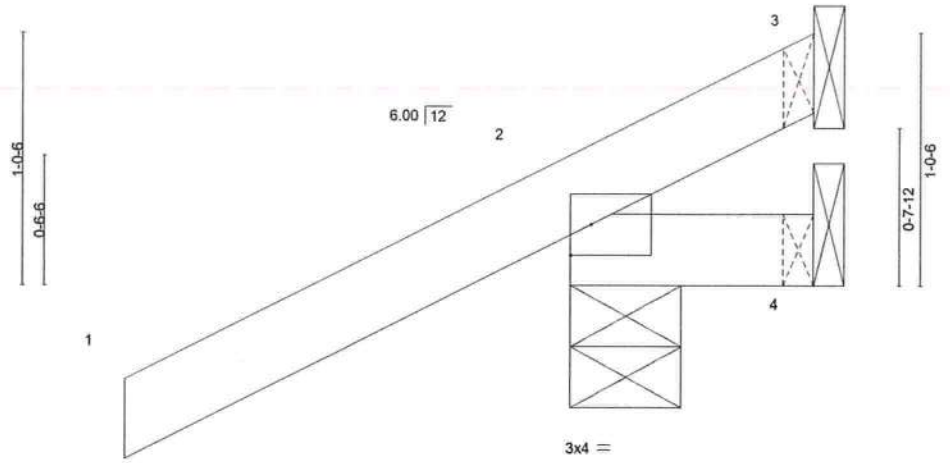
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	J4	Jack-Open	4	1	T31375727
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:48 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-1pSHwG?b8MamaEfDfDP9EjU86xrvOpDq7tqkpUylM5X

-1-10-0 / 1-10-0 | 1-0-0 / 1-0-0

Scale = 1:9.1



1-0-0 / 1-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-5-8, 4=Mechanical
Max Horz 2=50(LC 12)
Max Uplift 3=-24(LC 1), 2=-92(LC 12), 4=-38(LC 1)
Max Grav 3=12(LC 12), 2=252(LC 1), 4=26(LC 12)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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

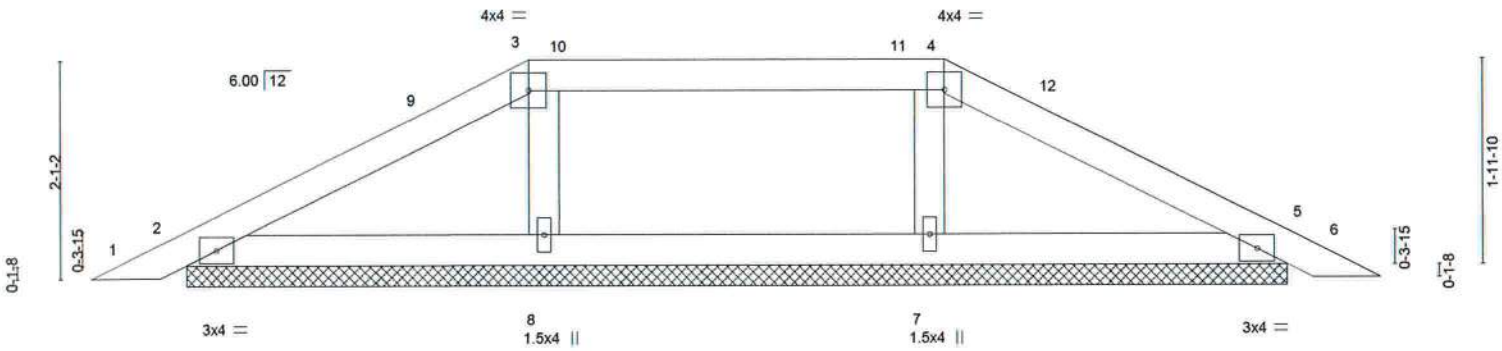
August 22,2023

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	PB01	Piggyback	2	1	T31375728
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:50 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-_CZ1Ly1rg_qUpYpbmeSdJ8ZVDlWqsjJ7bBJqtNyIM5V

4-2-5 | 8-2-5 | 12-4-10
4-2-5 | 4-0-0 | 4-2-5

Scale = 1:21.2



12-4-10
12-4-10

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	0.18	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 40 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 10-6-15.
(lb) - Max Horz 2=-32(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=304(LC 21), 7=304(LC 22)

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 4-2-5, Exterior(2E) 4-2-5 to 12-0-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

August 22,2023

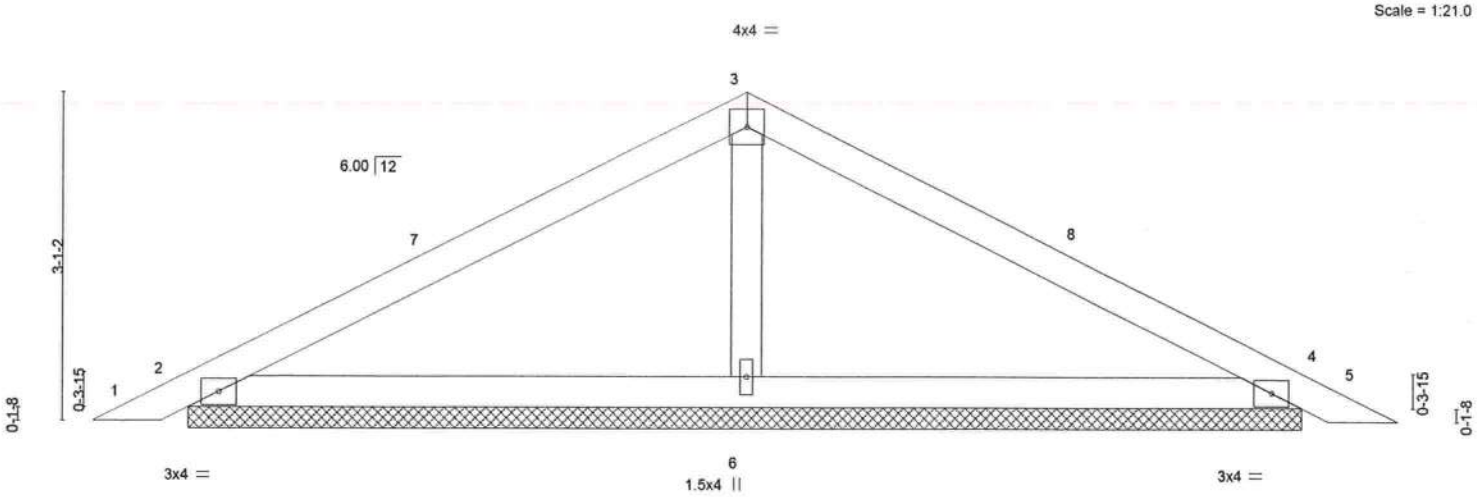
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	PB02	Piggyback	14	1	T31375729
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:51 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-SO7PZI2URHyLRiOoKLzssL6dC8p?bAFGpr3OPpyIM5U

6-2-5 | 12-4-10
6-2-5 | 6-2-5

Scale = 1:21.0



12-4-10
12-4-10

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.02	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 40 lb	FT = 20%

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

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

REACTIONS. (size) 2=10-6-15, 4=10-6-15, 6=10-6-15
Max Horz 2=-48(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 12)
Max Grav 2=230(LC 21), 4=230(LC 22), 6=460(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-300/132

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 3-3-15, Interior(1) 3-3-15 to 6-2-5, Exterior(2R) 6-2-5 to 9-2-5, Interior(1) 9-2-5 to 12-0-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

August 22,2023

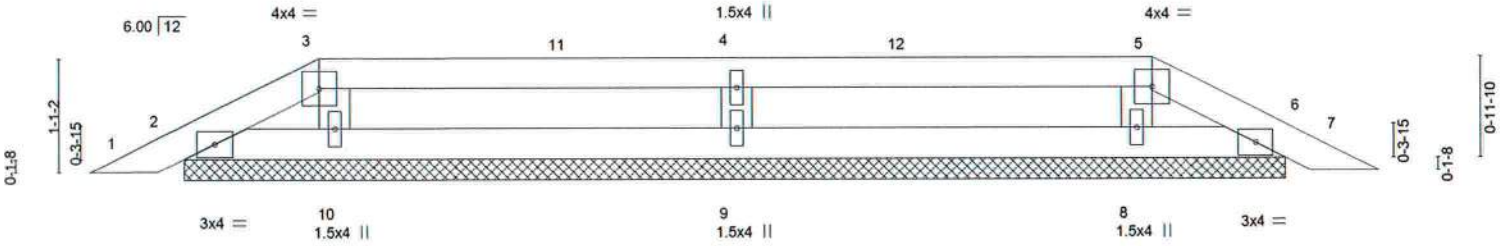
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Seay
SEAY	PB03	Piggyback	2	1	T31375730
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 2 2023 MiTek Industries, Inc. Tue Aug 22 08:09:52 2023 Page 1
ID:iLjfBShS67fA1xSWq1aN7EzN8Pf-wbhnme26Cb4C3sy_u3U5OZfqLYCHKdlQ2VoxyGyIM5T

2-2-5 | 10-2-5 | 12-4-10
2-2-5 | 8-0-0 | 2-2-5

Scale = 1:21.2



12-4-10
12-4-10

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	0.20	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.00	6	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 37 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 6-0-0 oc bracing.

REACTIONS. All bearings 10-6-15.
(lb) - Max Horz 2=-16(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=361(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-9=-278/119

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-15 to 2-2-5, Exterior(2R) 2-2-5 to 6-2-5, Interior(1) 6-2-5 to 10-2-5, Exterior(2E) 10-2-5 to 12-0-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

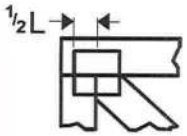
Julius Lee PE No. 34869
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

August 22,2023

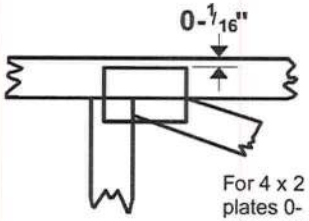
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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.

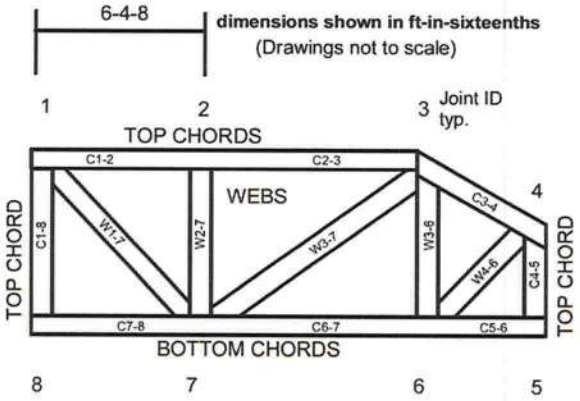
BEARING

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.

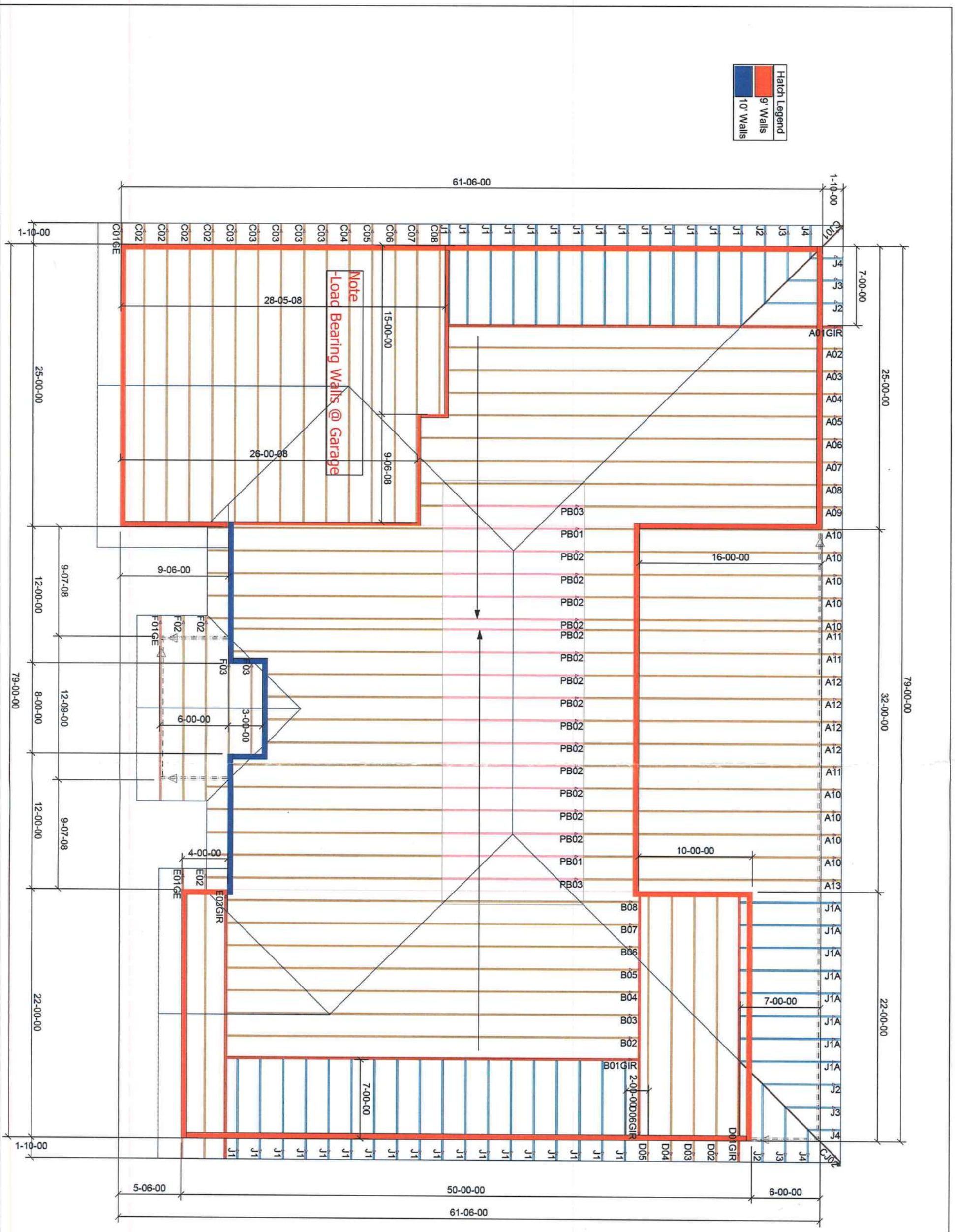
Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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.



Seay Columbia County	Client: BB HOMES Date: 4/25/2023 Quote Date: / / Seal Date: / / Designer: Jason Degroff Job Number: 0423-063	Mayo Truss Company Inc. Ph. (386) 294-3988 Fax (386) 294-3981 mayotruss@windstream.net