



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

RE: 1023-067 -

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

Site Information:

Customer Info: RICHARD ECHEVERRI Project Name: . Model: .
 Lot/Block: . Subdivision: .
 Address: ., .
 City: LAKE CITY State: FL.

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

Name: License #:
 Address:
 City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.7
 Wind Code: ASCE 7-16 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 96 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.

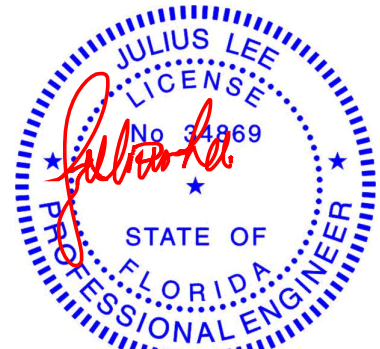
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T32352909	A01	12/13/23	23	T32352931	G01	12/13/23
2	T32352910	A02	12/13/23	24	T32352932	G02	12/13/23
3	T32352911	A03	12/13/23	25	T32352933	G03	12/13/23
4	T32352912	A3A	12/13/23	26	T32352934	G04	12/13/23
5	T32352913	A04	12/13/23	27	T32352935	G05	12/13/23
6	T32352914	A05	12/13/23	28	T32352936	G06	12/13/23
7	T32352915	A06	12/13/23	29	T32352937	H01	12/13/23
8	T32352916	B01	12/13/23	30	T32352938	H02	12/13/23
9	T32352917	B02	12/13/23	31	T32352939	H03	12/13/23
10	T32352918	B03	12/13/23	32	T32352940	H04	12/13/23
11	T32352919	B04	12/13/23	33	T32352941	H05	12/13/23
12	T32352920	C01	12/13/23	34	T32352942	H06	12/13/23
13	T32352921	C02	12/13/23	35	T32352943	H07	12/13/23
14	T32352922	C03	12/13/23	36	T32352944	H08	12/13/23
15	T32352923	C04	12/13/23	37	T32352945	H09	12/13/23
16	T32352924	C05	12/13/23	38	T32352946	H10	12/13/23
17	T32352925	C06	12/13/23	39	T32352947	H11	12/13/23
18	T32352926	CJ01	12/13/23	40	T32352948	H12	12/13/23
19	T32352927	CJ02	12/13/23	41	T32352949	H13	12/13/23
20	T32352928	D01	12/13/23	42	T32352950	H14	12/13/23
21	T32352929	D02	12/13/23	43	T32352951	J01	12/13/23
22	T32352930	D03	12/13/23	44	T32352952	J02	12/13/23



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.

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.



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

December 14, 2023



RE: 1023-067 -

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

Site Information:

Customer Info: RICHARD ECHEVERRI Project Name: . Model: .
Lot/Block: . Subdivision: .
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City: LAKE CITY State: FL.

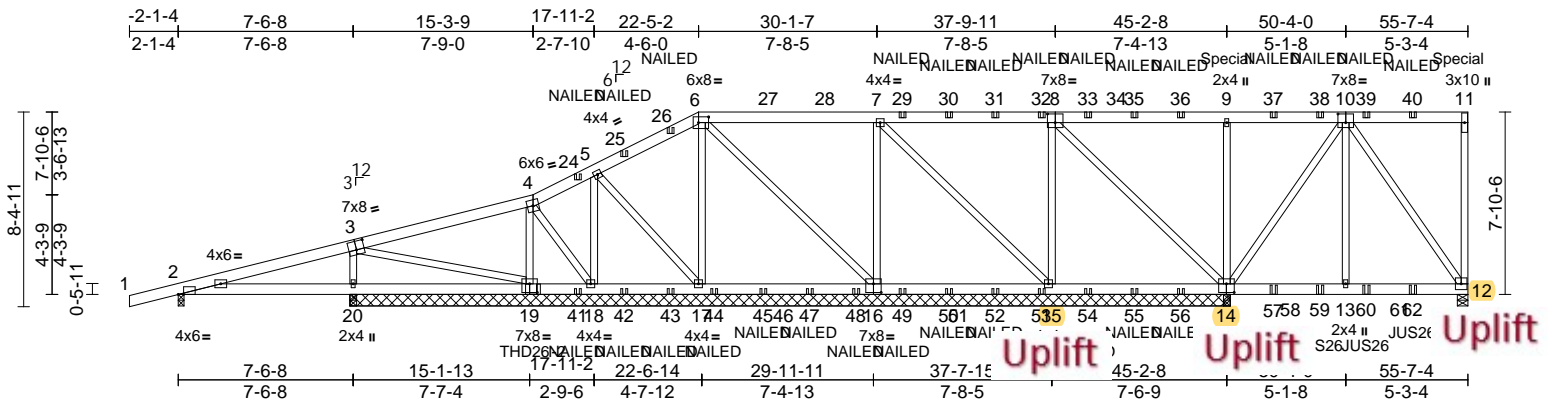
No.	Seal#	Truss Name	Date
45	T32352953	J03	12/13/23
46	T32352954	J04	12/13/23
47	T32352955	J05	12/13/23
48	T32352956	J06	12/13/23
49	T32352957	J07	12/13/23
50	T32352958	J08	12/13/23
51	T32352959	J09	12/13/23
52	T32352960	J10	12/13/23
53	T32352961	J11	12/13/23
54	T32352962	J12	12/13/23
55	T32352963	J13	12/13/23
56	T32352964	J14	12/13/23
57	T32352965	J15	12/13/23
58	T32352966	J16	12/13/23
59	T32352967	J17	12/13/23
60	T32352968	J18	12/13/23
61	T32352969	J19	12/13/23
62	T32352970	J20	12/13/23
63	T32352971	J21	12/13/23
64	T32352972	J22	12/13/23
65	T32352973	J23	12/13/23
66	T32352974	K01	12/13/23
67	T32352975	K02	12/13/23
68	T32352976	K03	12/13/23
69	T32352977	K04	12/13/23
70	T32352978	K05	12/13/23
71	T32352979	M01	12/13/23
72	T32352980	M02	12/13/23
73	T32352981	PB01	12/13/23
74	T32352982	PB02	12/13/23
75	T32352983	PB03	12/13/23
76	T32352984	PB04	12/13/23
77	T32352985	PB05	12/13/23
78	T32352986	PB06	12/13/23
79	T32352987	PB07	12/13/23
80	T32352988	PB08	12/13/23
81	T32352989	PB8A	12/13/23
82	T32352990	PB09	12/13/23
83	T32352991	PB10	12/13/23
84	T32352992	PB11	12/13/23
85	T32352993	V01	12/13/23
86	T32352994	V02	12/13/23
87	T32352995	V03	12/13/23
88	T32352996	V04	12/13/23
89	T32352997	V05	12/13/23
90	T32352998	V06	12/13/23
91	T32352999	V07	12/13/23
92	T32353000	V08	12/13/23
93	T32353001	V09	12/13/23
94	T32353002	V10	12/13/23
95	T32353003	V11	12/13/23
96	T32353004	V12	12/13/23

Job 1023-067	Truss A01	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T32352909
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:01
ID:sbJcuRMiYaoRgZ4nv0RVfosyOiyD-RfC?PsB70Hq3NSgPqnL8w3uTXbGKwRcDoi7J4zJC?f

Page: 1



Scale = 1:99.3

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-4-0,0-4-8], [10:0-4-0,0-4-8], [14:0-4-0,0-4-8], [16:0-4-0,0-4-8], [19:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.04	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.06	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS								Weight: 883 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.

REACTIONS (size)

2=0-3-0, 12=0-5-8, 14=37-11-8, 15=37-11-8, 16=37-11-8, 17=37-11-8, 18=37-11-8, 19=37-11-8, 20=37-11-8

Max Horiz 2=217 (LC 7)
Max Uplift 2=-57 (LC 8), 12=-1080 (LC 5), 14=-1505 (LC 8), 15=-839 (LC 8), 16=-606 (LC 8), 17=-321 (LC 5), 18=-171 (LC 8), 19=-92 (LC 8)

Max Grav 2=390 (LC 19), 12=1566 (LC 15), 14=2830 (LC 14), 15=1929 (LC 15), 16=1885 (LC 13), 17=1403 (LC 13), 18=597 (LC 13), 19=1641 (LC 1), 20=793 (LC 13)

FORCES (lb) - Maximum Compression/Maximum Tension

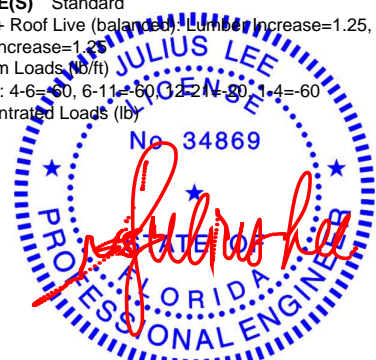
TOP CHORD 4-5=-174/61, 5-6=-194/91, 6-7=-126/70, 7-9=-73/177, 9-11=-89/176, 11-12=-459/706, 1-2=0/31, 2-4=-235/67

BOT CHORD 2-20=-78/162, 18-20=-90/113, 17-18=-82/109, 15-17=-60/118, 13-15=-337/701, 12-13=-337/701

WEBS 5-17=-16/31, 6-17=-326/37, 3-20=-528/90, 3-19=-13/40, 4-19=-265/45, 4-18=-51/66, 5-18=-231/39, 9-14=-736/608, 8-14=-235/20, 7-16=-444/38, 6-16=-91/30, 7-15=-101/30, 8-15=-750/0, 10-13=-792/1248, 10-14=-1407/556, 10-12=-1158/501

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1080 lb uplift at joint 12, 57 lb uplift at joint 2, 321 lb uplift at joint 17, 92 lb uplift at joint 19, 171 lb uplift at joint 18, 1505 lb uplift at joint 14, 606 lb uplift at joint 16 and 839 lb uplift at joint 15.

- Use MiTek THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 15-10-12 from the left end to connect truss(es) to back face of bottom chord.
 - Use MiTek JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 47-10-0 from the left end to 53-10-0 to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 335 lb down and 802 lb up at 45-10-0, and 330 lb down and 779 lb up at 56-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- LOAD CASE(S)** Standard
- Dead + Roof Live (balanced) - Lumber Increase=1.25, Plate Increase=1.25, Uniform Loads (lb/ft)
Vert: 4-6=60, 6-11=60, 12-21=80, 1-4=60
Concentrated Loads (lb)



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

December 14, 2023

Continued on page 2

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

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

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

Job 1023-067	Truss A01	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T32352909
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:01
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Page: 2

Vert: 11=260 (B), 19=-1247 (B), 9=267 (B), 24=-30 (B), 26=-66 (B), 29=83 (B), 30=83 (B), 31=83 (B), 32=83 (B), 33=83 (B), 35=83 (B), 36=83 (B), 37=-97 (B), 38=-97 (B), 39=-97 (B), 40=-97 (B), 41=-153 (B), 42=-189 (B), 43=-148 (B), 44=-251 (B), 45=-251 (B), 47=-251 (B), 48=-251 (B), 49=-270 (B), 50=-270 (B), 52=-270 (B), 53=-270 (B), 54=-270 (B), 55=-270 (B), 56=-270 (B), 57=-344 (B), 59=-344 (B), 60=-344 (B), 62=-344 (B)

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

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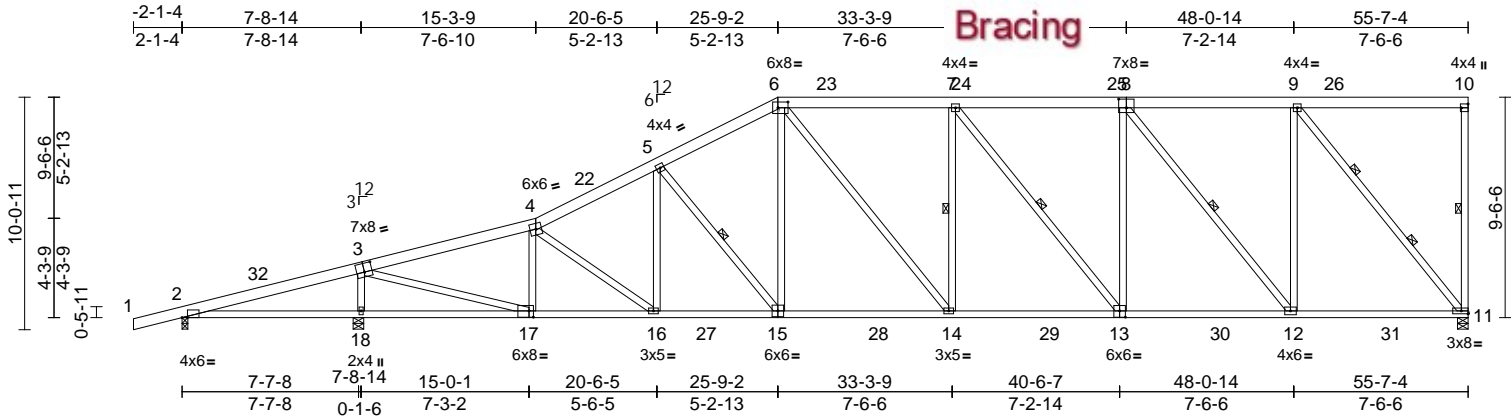
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T32352910
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:99.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.29	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.51	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.14	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 404 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
11-9,14-6,13-7,12-8:2x4 SP No.1

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-11, 5-15, 7-14, 7-13, 8-12
WEBS 2 Rows at 1/3 pts 9-11

REACTIONS (size) 2=0-3-0, 11=0-5-8, 18=0-5-8
Max Horiz 2=270 (LC 11)
Max Uplift 2=-63 (LC 8), 11=-2 (LC 12)
Max Grav 2=165 (LC 1), 11=2193 (LC 17), 18=2959 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-3346/364, 5-6=-3000/380, 6-7=-2846/387, 7-9=-2468/337, 9-10=-143/146, 10-11=-184/83, 1-2=0/31, 2-4=-3146/1092
BOT CHORD 2-18=-925/97, 16-18=-818/3137, 14-16=-478/3033, 12-14=-388/2882, 11-12=-229/1573
WEBS 3-18=-2666/373, 3-17=-394/4015, 4-17=-898/192, 4-16=-147/57, 5-16=0/272, 5-15=-574/104, 6-15=-1/738, 9-11=-2455/237, 7-14=-81/173, 6-14=-31/411, 7-13=-609/104, 8-13=0/793, 8-12=-1460/151, 9-12=-26/1495

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-1-7, Interior (1) 4-1-7 to 26-4-6, Exterior(2R) 26-4-6 to 34-3-12, Interior (1) 34-3-12 to 56-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SP No.2.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 11 and 63 lb uplift at joint 2.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing is applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

NOTES



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

December 14, 2023

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MiTek®

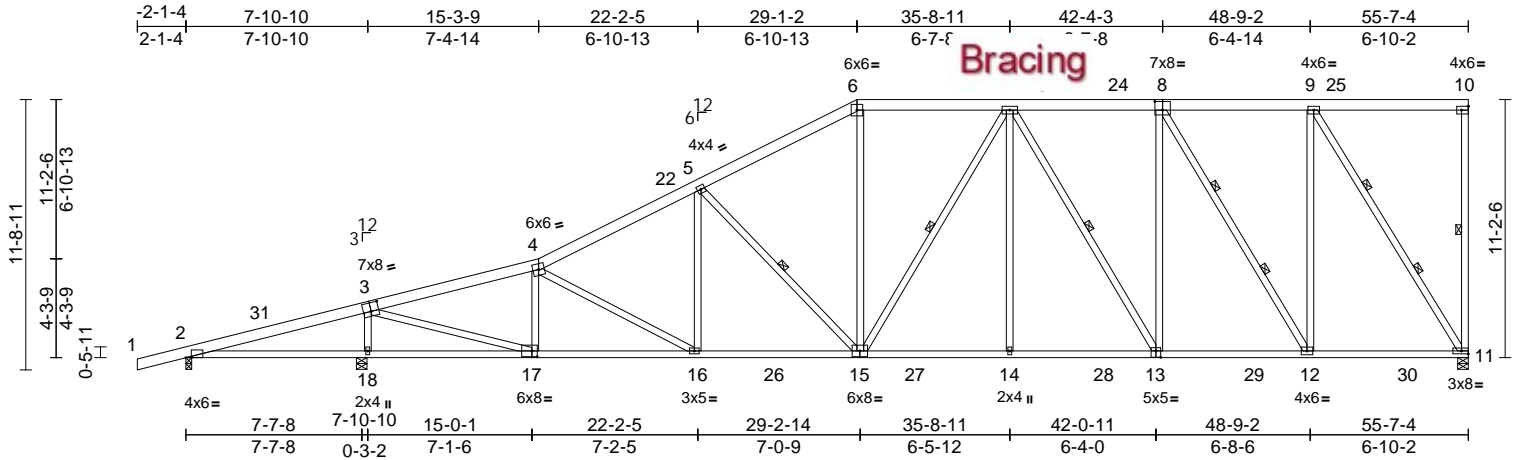
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A03	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)	T32352911
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:02
ID:040Dsqn?UFelZp4LkR5Yv1yOIV5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:99.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.24	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.42	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 428 lb	FT = 20%

LUMBER

- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2 *Except* 11-9:2x4 SP SS

BRACING

- TOP CHORD Structural wood sheathing directly applied, except end verticals.
- BOT CHORD Rigid ceiling directly applied.
- WEBS 1 Row at midpt 10-11, 5-15, 7-15, 7-13
- WEBS 2 Rows at 1/3 pts 8-12, 9-11

REACTIONS

- (size) 2=0-3-0, 11=0-5-8, 18=0-5-8
- Max Horiz 2=320 (LC 11)
- Max Uplift 2=-64 (LC 8), 11=-4 (LC 12)
- Max Grav 2=175 (LC 1), 11=2217 (LC 17), 18=2963 (LC 17)

FORCES

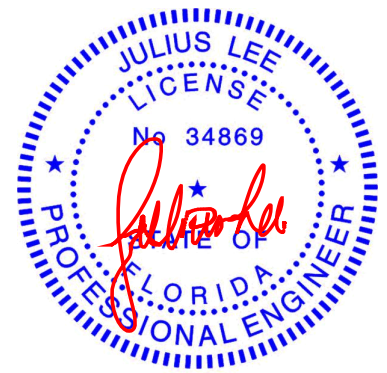
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 4-5=-3255/347, 5-6=-2713/370, 6-7=-2373/363, 7-9=-1972/322, 9-10=-160/169, 10-11=-165/93, 1-2=0/31, 2-4=-3079/1104
- BOT CHORD 2-18=-920/95, 16-18=-816/3095, 14-16=-498/2958, 12-14=-372/2401, 11-12=-221/1245
- WEBS 3-18=-2675/364, 3-17=-373/3974, 4-17=-909/195, 4-16=-179/67, 5-16=0/387, 5-15=-799/130, 6-15=-18/826, 8-13=-41/947, 8-12=-1461/166, 9-12=-62/1579, 9-11=-2308/244, 7-14=0/368, 7-15=-203/80, 7-13=-766/129

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-8-6, Exterior(2R) 29-8-6 to 37-6-12, Interior (1) 37-6-12 to 56-0-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 11 and 64 lb uplift at joint 2.
- 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.

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:

December 14,2023

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

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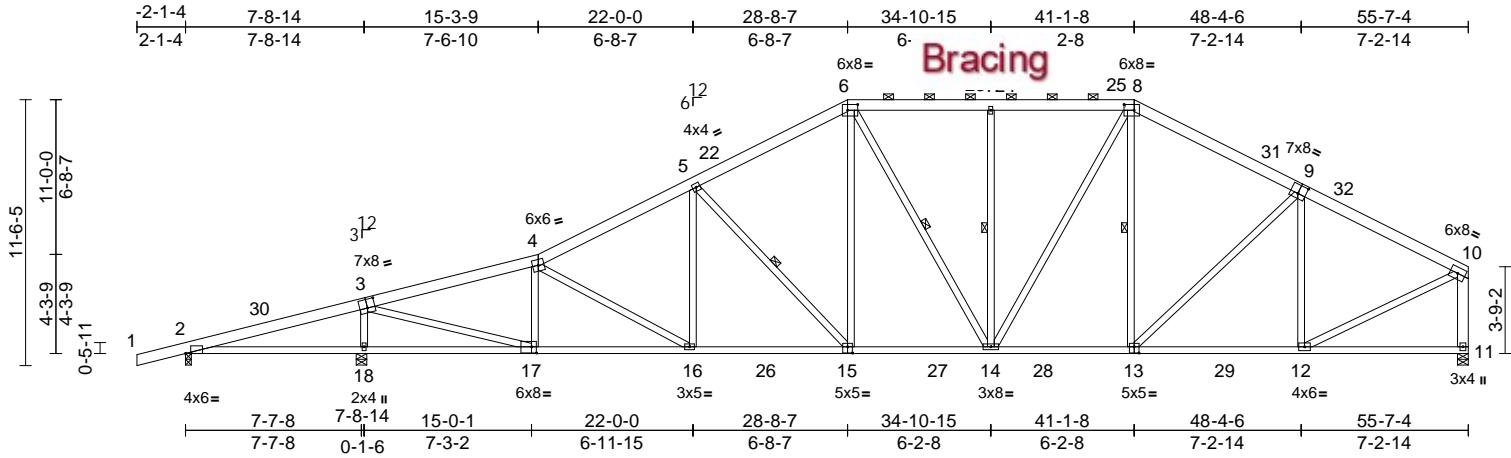
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A3A	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T32352912
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:10:57
ID:nzWN0dvKapM5D6hDhTFMAeyOITe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:99.9

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [9:0-4-0,0-4-8], [13:0-2-8,0-3-4], [15:0-2-8,0-3-4], [17:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.40	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 405 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2 *Except* 11-10:2x6 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-9-3 max.): 6-8.
- BOT CHORD Rigid ceiling directly applied.
- WEBS 1 Row at midpt 5-15, 6-14, 7-14, 8-13
- REACTIONS** (size) 2=0-3-0, 11=0-5-8, 18=0-5-8
- Max Horiz 2=236 (LC 11)
- Max Uplift 2=-63 (LC 8)
- Max Grav 2=196 (LC 24), 11=4154 (LC 18), 18=2905 (LC 17)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 4-5=-3242/371, 5-6=-2705/391, 6-7=-2340/389, 7-8=-2340/389, 10-11=-2049/234, 1-2=0/31, 2-4=-3129/1028, 8-10=-2380/358
- BOT CHORD 2-18=-841/104, 16-18=-736/3155, 14-16=-305/2962, 12-14=-206/2054, 11-12=-42/85
- WEBS 3-18=-2617/346, 3-17=-351/3938, 4-17=-858/185, 4-16=-251/74, 5-16=0/401, 5-15=-805/134, 6-15=-20/871, 6-14=-78/240, 7-14=-393/128, 8-14=-66/698, 8-13=-75/233, 9-13=-12/303, 9-12=-633/173, 10-12=-182/2017

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 55-11-12 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 2.
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Vert: 11=-959

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (lb/ft)
- Vert: 4-6=-60, 6-8=-60, 11-19=-20, 1-4=-60, 8-10=-60
- Concentrated Loads (lb)



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

December 14,2023

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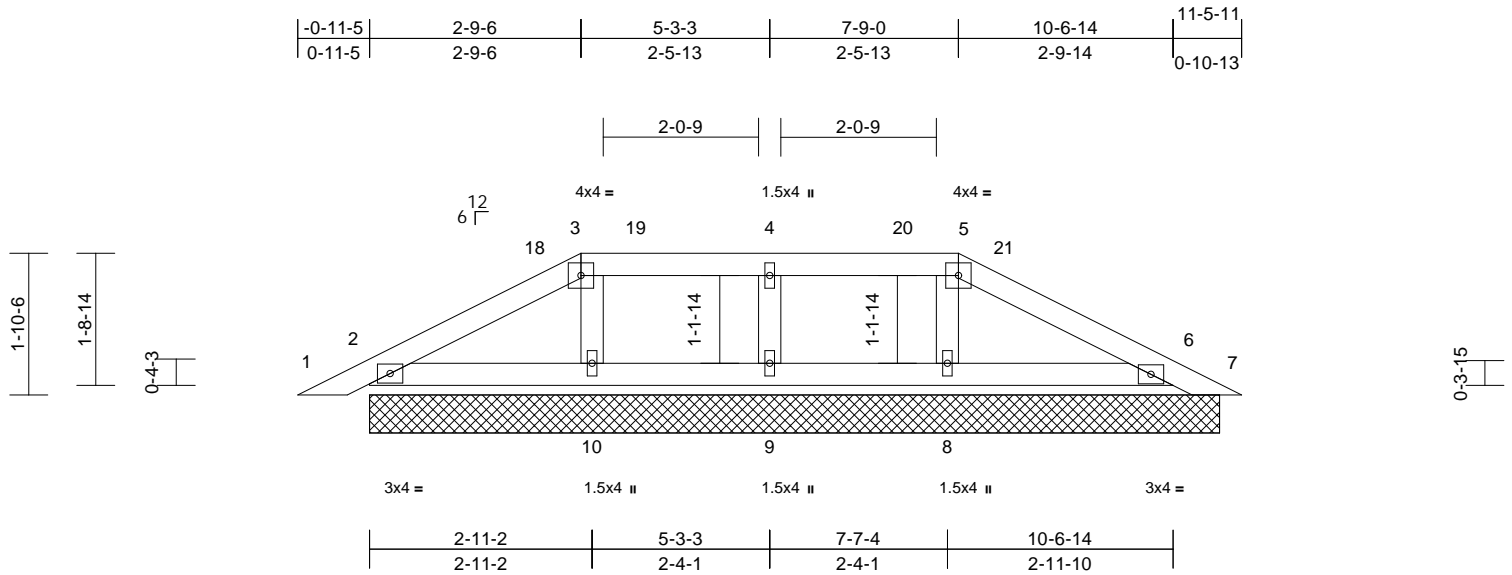
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A04	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T32352913
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:03
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 41 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

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

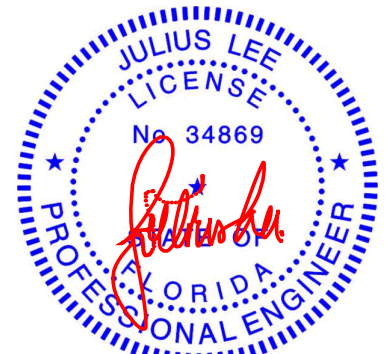
REACTIONS (size)
2=11-2-3, 6=11-2-3, 7=11-2-3,
8=11-2-3, 9=11-2-3, 10=11-2-3,
11=11-2-3, 14=11-2-3
Max Horiz 2=30 (LC 11), 11=30 (LC 11)
Max Uplift 2=-21 (LC 12), 6=-8 (LC 12), 7=-55
(LC 24), 9=-14 (LC 8), 11=-21 (LC
12), 14=-8 (LC 12)
Max Grav 2=148 (LC 1), 6=227 (LC 1), 7=5
(LC 12), 8=204 (LC 1), 9=197 (LC
24), 10=219 (LC 1), 11=148 (LC 1),
14=227 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/17, 2-3=-43/35, 3-4=-21/43,
4-5=-21/43, 5-6=-51/34, 6-7=-10/46
BOT CHORD 2-10=-2/31, 9-10=-9/32, 8-9=-9/32,
6-8=-12/27
WEBS 3-10=-143/60, 5-8=-137/59, 4-9=-160/80

NOTES
1) Unbalanced roof live loads have been considered for
this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-3-15 to
3-3-15, Interior (1) 3-3-15 to 3-8-11, Exterior(2R) 3-8-11
to 7-11-10, Interior (1) 7-11-10 to 8-8-5, Exterior(2E)
8-8-5 to 12-1-2 zone; cantilever left and right exposed ;
end vertical left and right exposed;C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.1 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 7, 21 lb uplift at joint 2, 8 lb uplift at joint 6, 14 lb uplift at joint 9, 21 lb uplift at joint 2 and 8 lb uplift at joint 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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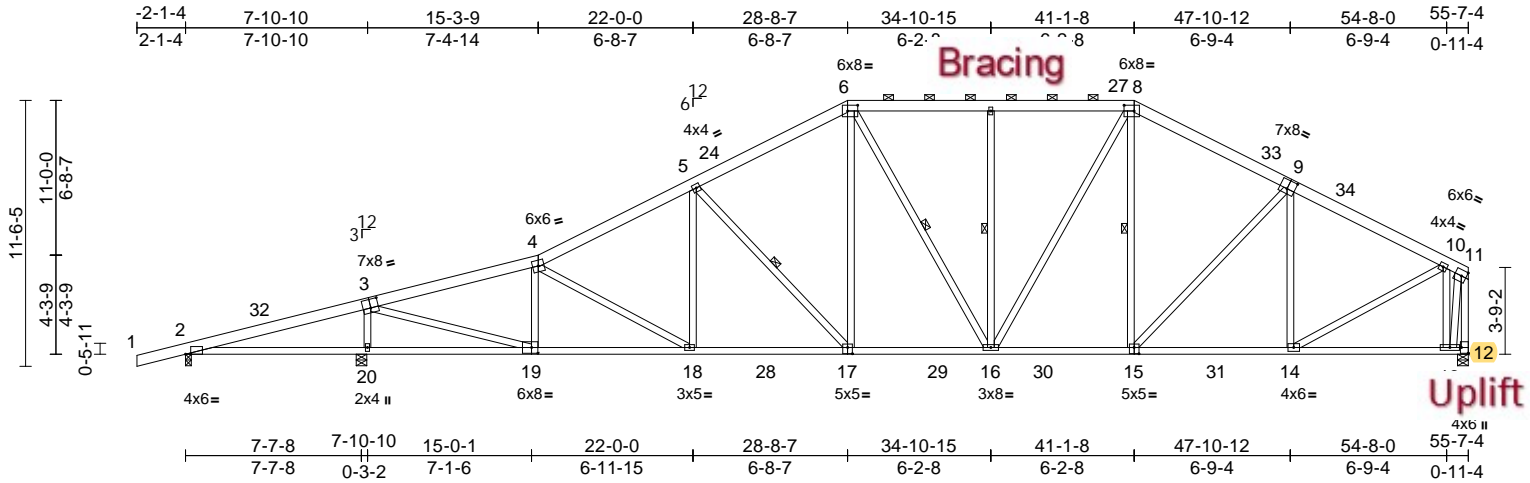
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A05	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional) T32352914
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:03
ID:ZPH012R_grM4ydudd18qQyOIRfRfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:99.9

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [9:0-4-0,0-4-8], [12:Edge,0-3-8], [15:0-2-8,0-3-4], [17:0-2-8,0-3-4], [19:0-3-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.21	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.38	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 412 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-5 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-17, 6-16, 7-16, 8-15

REACTIONS (size) 2=0-3-0, 12=0-5-8, 13=0-5-8, 20=0-5-8
Max Horiz 2=235 (LC 11)
Max Uplift 2=61 (LC 8), 12=901 (LC 19)
Max Grav 2=211 (LC 23), 12=41 (LC 12), 13=3099 (LC 18), 20=2856 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-3132/362, 5-6=-2607/384, 6-7=-2236/382, 7-8=-2236/382, 11-12=-123/636, 1-2=0/31, 2-4=-2991/1002, 8-10=-2231/350, 10-11=-85/189
BOT CHORD 2-20=-817/103, 18-20=-716/3023, 16-18=-296/2865, 14-16=-187/1925, 13-14=-54/51, 12-13=-51/54
WEBS 3-20=-2565/341, 3-19=-334/3791, 4-19=-860/183, 4-18=-211/64, 5-18=0/388, 5-17=-797/136, 6-17=-23/864, 6-16=-88/221, 7-16=-412/137, 8-16=-74/740, 8-15=-131/167, 9-15=0/379, 9-14=-699/162, 10-14=-156/1945, 10-13=-2231/368, 11-13=-479/35

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 4-0-12, Interior (1) 4-0-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 56-0-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 2 and 901 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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MiTek®

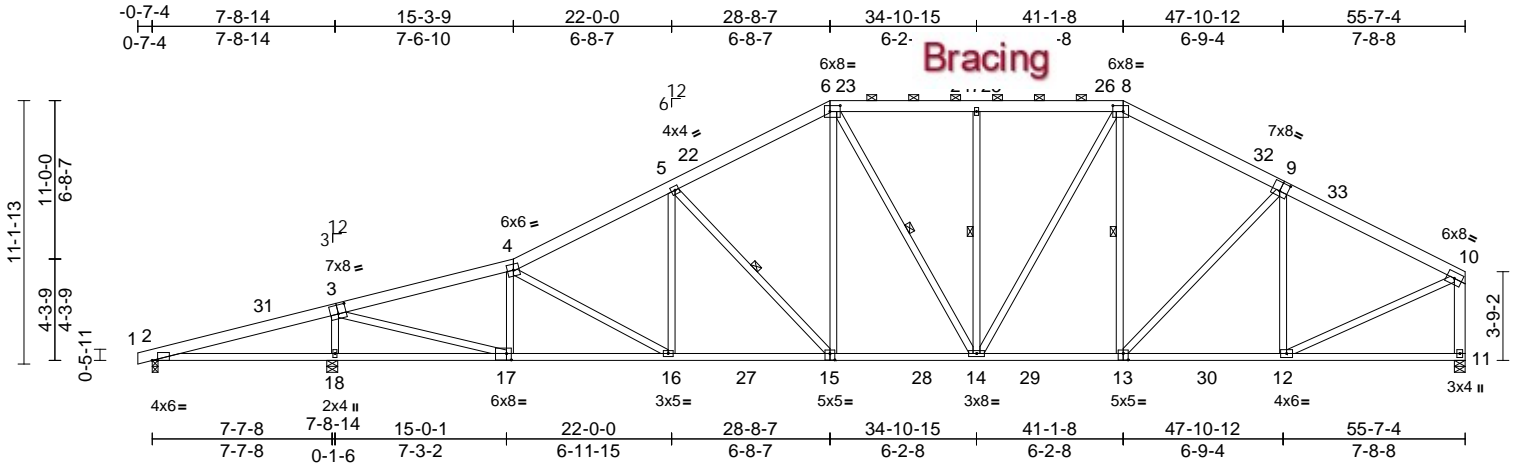
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss A06	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T32352915
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:04
ID:ZuiyZd9hZZX8o1ny9nxStmyOIF6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:97.6

Plate Offsets (X, Y): [2:0-2-12,Edge], [3:0-4-0,0-4-8], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [9:0-4-0,0-4-8], [13:0-2-8,0-3-4], [15:0-2-8,0-3-4], [17:0-2-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.22	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.40	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 402 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 11-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-14 max.): 6-8.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-15, 6-14, 7-14, 8-13

REACTIONS
(size) 2=0-3-0, 11=0-5-8, 18=0-5-8
Max Horiz 2=232 (LC 11)
Max Uplift 2=31 (LC 8)
Max Grav 2=94 (LC 23), 11=2161 (LC 18), 18=2913 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 4-5=-3247/371, 5-6=-2707/391, 6-7=-2344/390, 7-8=-2344/390, 10-11=-2042/237, 1-2=0/9, 2-4=-3136/1011, 8-10=-2376/361
BOT CHORD 2-18=-826/91, 16-18=-721/3162, 14-16=-306/2968, 12-14=-208/2049, 11-12=-43/79
WEBS 3-18=-2617/348, 3-17=-343/3927, 4-17=-857/184, 4-16=-246/66, 5-16=0/403, 5-15=-817/138, 6-15=-24/878, 6-14=-72/250, 7-14=-413/138, 8-14=-71/712, 8-13=-67/238, 9-13=-40/264, 9-12=-600/171, 10-12=-181/2047

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=56ft; eave=7ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-6-12, Interior (1) 5-6-12 to 29-3-11, Exterior(2R) 29-3-11 to 34-10-6, Interior (1) 34-10-6 to 41-8-11, Exterior(2R) 41-8-11 to 47-3-7, Interior (1) 47-3-7 to 55-11-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14,2023

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

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

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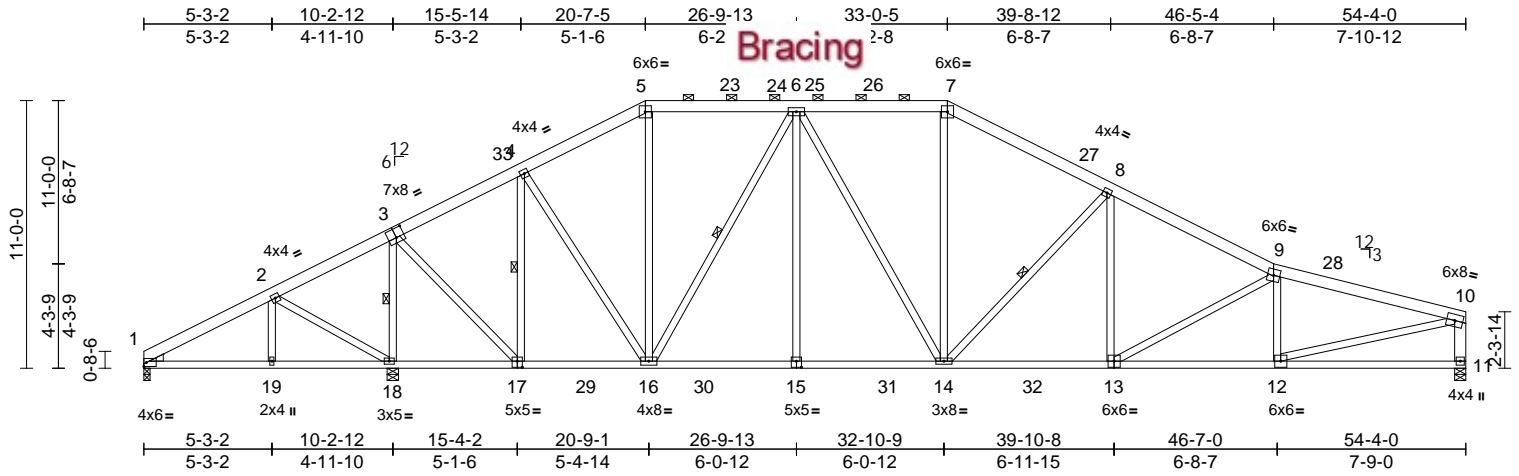
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss B01	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T32352916
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:04
ID:elvjzibO?dzU14Dm?CZp3MyOlBy-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:94.7

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [15:0-2-8,0-3-0], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.38	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 411 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 11-10:2x6 SP No.2
WEDGE Left: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-2-11 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 8-14, 3-18, 4-17

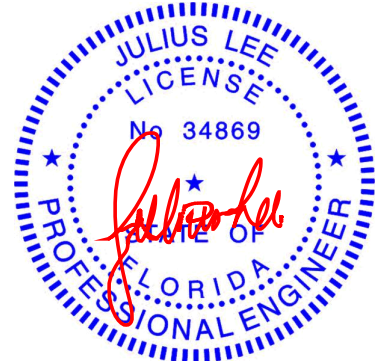
REACTIONS
(size) 1=0-3-0, 11=0-5-8, 18=0-5-8
Max Horiz 1=209 (LC 11)
Max Uplift 1=142 (LC 24), 11=-1 (LC 12)
Max Grav 1=125 (LC 23), 11=1920 (LC 18), 18=3080 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-1239/293, 6-7=-1974/356, 7-8=-2266/350, 8-9=-2989/346, 9-10=-3291/312, 10-11=-1782/203, 1-2=-96/517, 2-4=-837/987, 4-5=-1443/299
BOT CHORD 1-19=-432/96, 18-19=-432/57, 16-18=-843/762, 14-16=-93/1754, 12-14=-273/3126, 11-12=-39/227
WEBS 5-16=-6/349, 6-16=-1089/99, 6-15=0/346, 6-14=-28/394, 7-14=-17/643, 8-14=-993/167, 8-13=0/615, 9-13=-650/90, 9-12=-530/151, 10-12=-236/2997, 2-19=0/212, 2-18=-614/98, 3-18=-2589/303, 4-17=-1340/185, 4-16=-13/994, 3-17=-167/2115

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-3-2, Interior (1) 5-3-2 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-8, Interior (1) 26-0-8 to 33-0-5, Exterior(2R) 33-0-5 to 38-5-8, Interior (1) 38-5-8 to 54-1-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 1 and 1 lb uplift at joint 11.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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

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

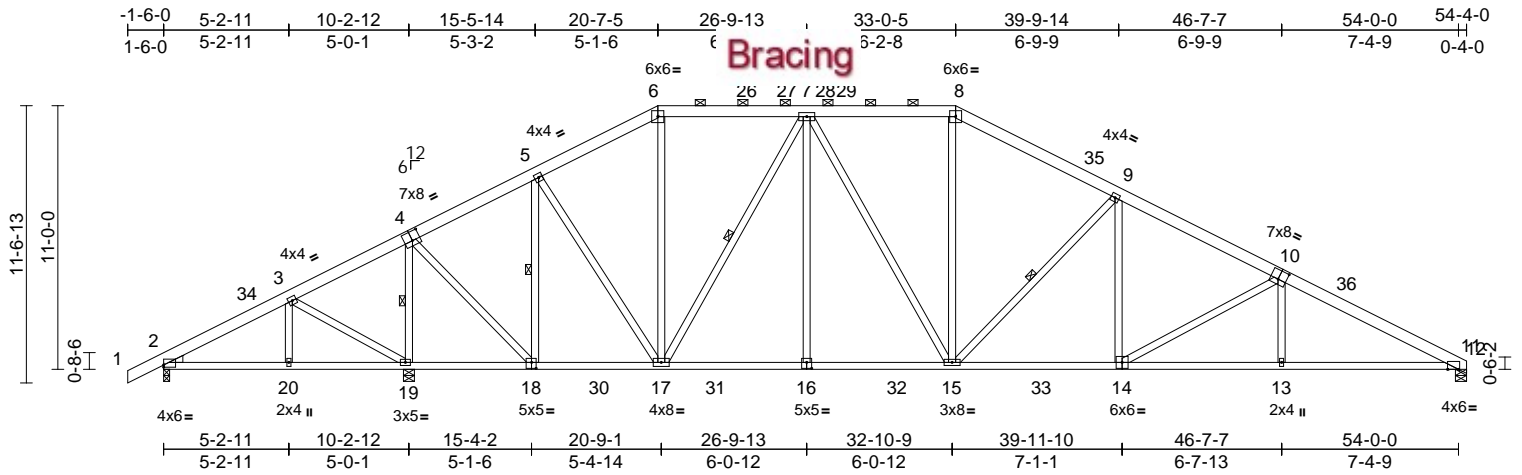
Job 1023-067	Truss B02	Truss Type Piggyback Base	Qty 7	Ply 1	Job Reference (optional) T32352917
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 9.04 E 8.73 Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Thu Dec 14 11:49:11

Page: 1

ID:Qe1UUUvk5ChHnQexEkdKzyOIAV-Brg72EaJbNaf4?KmpvYqfQv5AprOekETs1r7Ty9Eys



Scale = 1:96.1

Plate Offsets (X, Y): [2:Edge,0-1-2], [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [11:0-5-8,Edge], [16:0-2-8,0-3-0], [18:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.21	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.38	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.12	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 401 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 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 2-0-0 oc purlins (5-2-11 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 7-17, 9-15, 4-19, 5-18
REACTIONS	(lb/size)
	2=112/0-3-0, 11=1668/0-5-8, 19=2643/0-5-8
	Max Horiz 2=211 (LC 11)
	Max Uplift 2=-116 (LC 24), 11=-2 (LC 12)
	Max Grav 2=213 (LC 23), 11=1960 (LC 18), 19=3088 (LC 17)
FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	6-26=-1232/215, 26-27=-1232/215, 7-27=-1232/215, 7-28=-1976/245, 28-29=-1976/245, 8-29=-1976/245, 2-34=-72/494, 3-34=0/534, 3-4=0/1016, 4-5=-822/149, 5-6=-1436/215, 8-35=-2188/230, 9-35=-2268/197, 9-10=-3021/198, 10-36=-3587/168, 11-36=-3672/147
BOT CHORD	2-20=-461/83, 19-20=-461/56, 18-19=-864/95, 18-30=0/755, 17-30=0/755, 17-31=0/1752, 16-31=0/1752, 16-32=0/1752, 15-32=0/1752, 15-33=-27/2577, 14-33=-27/2577, 13-14=-77/3227, 11-13=-76/3230
WEBS	6-17=0/345, 7-17=-1097/54, 7-16=0/345, 7-15=-14/405, 8-15=0/634, 9-15=-1001/106, 9-14=0/652, 10-14=-736/80, 10-13=0/272, 3-19=-599/47, 4-19=-2607/143, 5-18=-1349/97, 5-17=0/1008, 4-18=-48/2126

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-10-13, Interior (1) 3-10-13 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-1, Interior (1) 26-0-1 to 33-0-5, Exterior (2R) 33-0-5 to 38-5-2, Interior (1) 38-5-2 to 54-4-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 2 lb uplift at joint 11.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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MiTek®

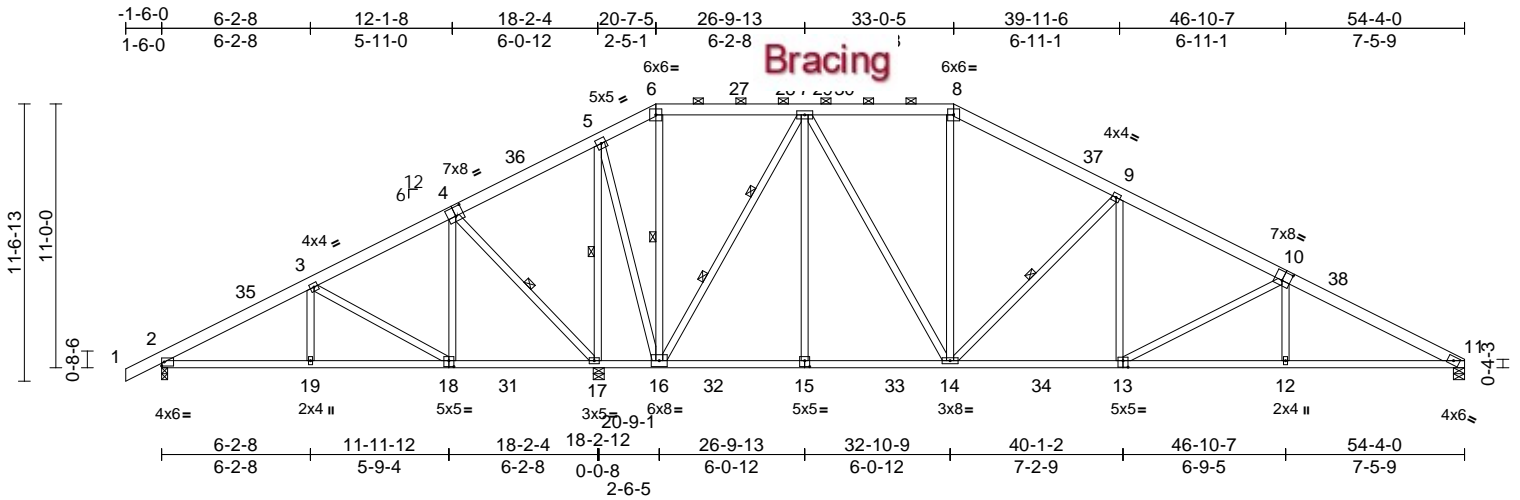
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss B03	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional) T32352918
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:05
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Page: 1



Scale = 1:96.1

Plate Offsets (X, Y): [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [13:0-2-8,0-3-4], [15:0-2-8,0-3-0], [18:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.29	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS								Weight: 408 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 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.): 6-8.
Rigid ceiling directly applied.
BOT CHORD
WEBS 1 Row at midpt 6-16, 9-14, 5-17, 4-17
WEBS 2 Rows at 1/3 pts 7-16

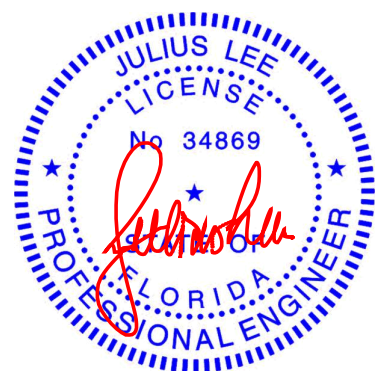
REACTIONS
(size) 2=0-3-0, 11=0-5-8, 17=0-5-8
Max Horiz 2=210 (LC 11)
Max Uplift 2=-41 (LC 12)
Max Grav 2=576 (LC 23), 11=1504 (LC 18), 17=3084 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=0/245, 7-8=-1084/214, 1-2=0/40, 2-3=-613/47, 3-5=-119/885, 5-6=0/267, 8-9=-1279/194, 9-11=-2719/162
BOT CHORD 2-19=-175/501, 17-19=-276/501, 16-17=-749/135, 14-16=0/627, 12-14=-46/2379, 11-12=-45/2382
WEBS 6-16=-275/10, 7-16=-1650/72, 7-15=0/363, 7-14=-33/903, 8-14=0/243, 9-14=-1016/107, 9-13=0/651, 10-13=-748/82, 10-12=0/272, 5-17=-2266/117, 3-19=0/239, 4-18=0/557, 4-17=-849/73, 3-18=-632/55, 5-16=-23/1842

NOTES
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-11-3, Interior (1) 3-11-3 to 20-7-5, Exterior(2R) 20-7-5 to 26-0-8, Interior (1) 26-0-8 to 33-0-5, Exterior(2R) 33-0-5 to 38-5-8, Interior (1) 38-5-8 to 54-1-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 2.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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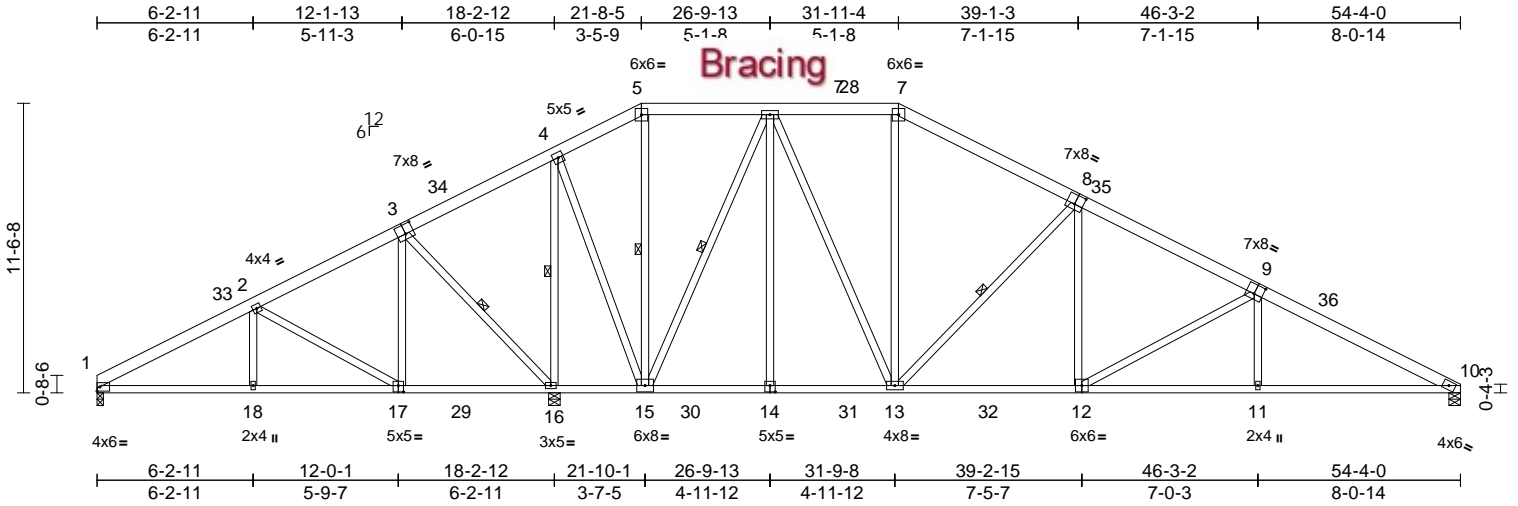
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss B04	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T32352919
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:06
ID:RyYJe?YtVBdOkuNrQ_KfeiyOI1i-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDi7J4zJC?f

Page: 1



Scale = 1:91.8

Plate Offsets (X, Y): [3:0-4-0,0-4-8], [8:0-4-0,0-4-8], [9:0-4-0,0-4-8], [14:0-2-8,0-3-0], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.17	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.31	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 410 lb	FT = 20%

LUMBER

TOP CHORD 2x6 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.
WEBS 1 Row at midpt 5-15, 6-15, 8-13, 4-16, 3-16

REACTIONS

(size) 1=0-3-0, 10=0-5-8, 16=0-5-8
Max Horiz 1=211 (LC 11)
Max Uplift 1=5 (LC 12)
Max Grav 1=490 (LC 23), 10=1500 (LC 18), 16=3076 (LC 17)

FORCES

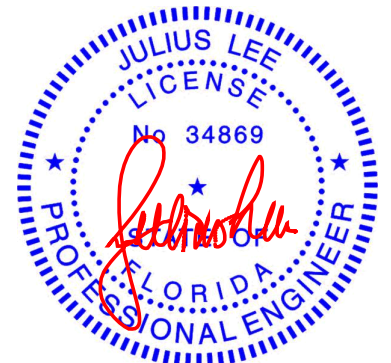
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-59/165, 6-7=-976/200, 1-2=-643/64, 2-4=-139/884, 4-5=-70/172, 7-10=-2669/186
BOT CHORD 1-18=-175/531, 16-18=-271/531, 15-16=-752/129, 13-15=0/567, 11-13=-31/2332, 10-11=-30/2335
WEBS 5-15=-230/0, 6-15=-1501/60, 6-14=0/280, 6-13=-26/953, 7-13=0/207, 8-13=-1065/107, 8-12=0/702, 9-12=-801/85, 9-11=0/290, 4-16=-2241/97, 4-15=0/1789, 2-18=0/240, 3-17=0/567, 3-16=-861/74, 2-17=-647/76

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=54ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 5-5-3, Interior (1) 5-5-3 to 21-8-5, Exterior(2R) 21-8-5 to 29-4-9, Interior (1) 29-4-9 to 31-11-4, Exterior(2R) 31-11-4 to 39-7-8, Interior (1) 39-7-8 to 54-1-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1.
- 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.

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:

December 14, 2023

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

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

MiTek®

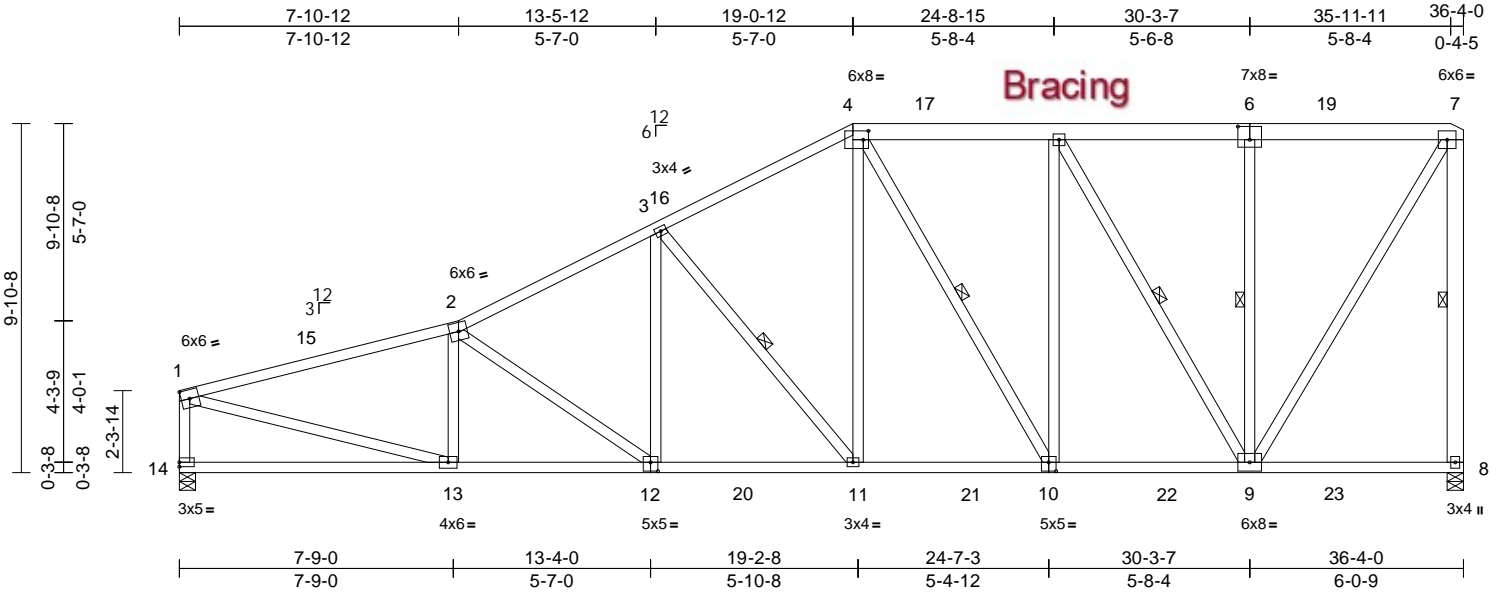
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss C01	Truss Type Hip	Qty 1	Ply 1	Job Reference (optional) T32352920
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:06
ID: EhF9T9uh0BZVVw7TrujScCyOHsw-RIC?PsB70Hq3NSgPqnL8w3uITXbGKwRCdoi7J4zJC?#

Page: 1



Scale = 1:65.2

Plate Offsets (X, Y): [4:0-1-12,0-3-0], [6:0-4-0,0-4-8], [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 (roof)	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.16	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.29	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 286 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-7:2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 8-7:2x6 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, 7-8, 4-10, 5-9, 6-9

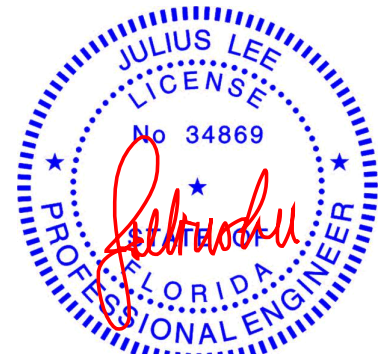
REACTIONS (size) 8=0-5-8, 14=0-5-8
Max Horiz 14=278 (LC 11)
Max Uplift 8=5 (LC 12)
Max Grav 8=1710 (LC 17), 14=1636 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2705/224, 2-3=-2440/263, 3-4=-1853/274, 4-5=-1414/261, 5-7=-912/210, 1-14=-1499/176, 7-8=-1576/221
BOT CHORD 13-14=-464/421, 11-13=-503/2678, 9-11=-341/1666, 8-9=-114/135
WEBS 2-13=-433/137, 2-12=-587/85, 3-12=0/570, 3-11=-837/147, 4-11=-41/884, 1-13=-185/2478, 5-10=-47/601, 4-10=-417/124, 5-9=-1045/157, 6-9=-356/142, 7-9=-223/1692

- 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; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-9-6, Interior (1) 3-9-6 to 19-0-12, Exterior(2R) 19-0-12 to 24-2-6, Interior (1) 24-2-6 to 36-1-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 8.
- 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.

LOAD CASE(S) Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.



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

December 14, 2023

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

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

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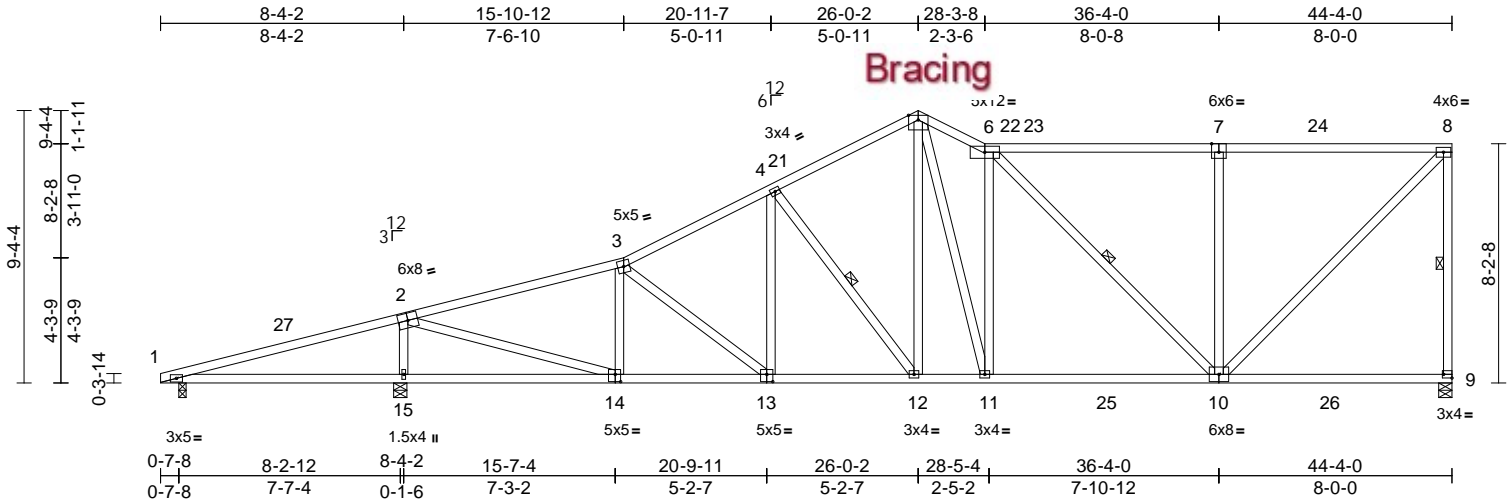
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss C02	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T32352921
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:07
ID:lfmYtKuTh0jhzQCqiwTiyOHrd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCdoi7J4zJC7f

Page: 1



Scale = 1:79.1

Plate Offsets (X, Y): [7:0-3-0,Edge], [9:Edge,0-1-8], [13:0-2-8,0-3-0], [14:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.34	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 277 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 8-9, 6-10, 4-12

REACTIONS

(size) 1=0-3-0, 9=0-5-8, 15=0-5-8
Max Horiz 1=249 (LC 11)
Max Uplift 9=2 (LC 12)
Max Grav 1=256 (LC 25), 9=1622 (LC 17), 15=2137 (LC 17)

FORCES

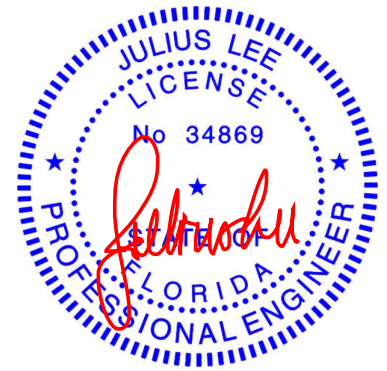
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 3-4=2212/239, 4-5=1787/252, 5-6=2029/302, 6-8=1308/211, 8-9=1457/194, 1-3=2253/396
BOT CHORD 1-15=350/138, 12-15=349/2255, 11-12=286/1596, 9-11=289/1823
WEBS 2-15=1810/269, 2-14=185/2465, 3-14=520/133, 5-11=124/988, 6-11=699/196, 5-12=61/595, 7-10=552/182, 6-10=699/105, 8-10=194/1820, 4-13=0/408, 4-12=654/111, 3-13=343/73

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=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 4-5-3, Interior (1) 4-5-3 to 26-0-2, Exterior(2E) 26-0-2 to 28-3-8, Interior (1) 28-3-8 to 44-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 9.
- 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.

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:

December 14, 2023

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

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Chesterfield, MO 63017
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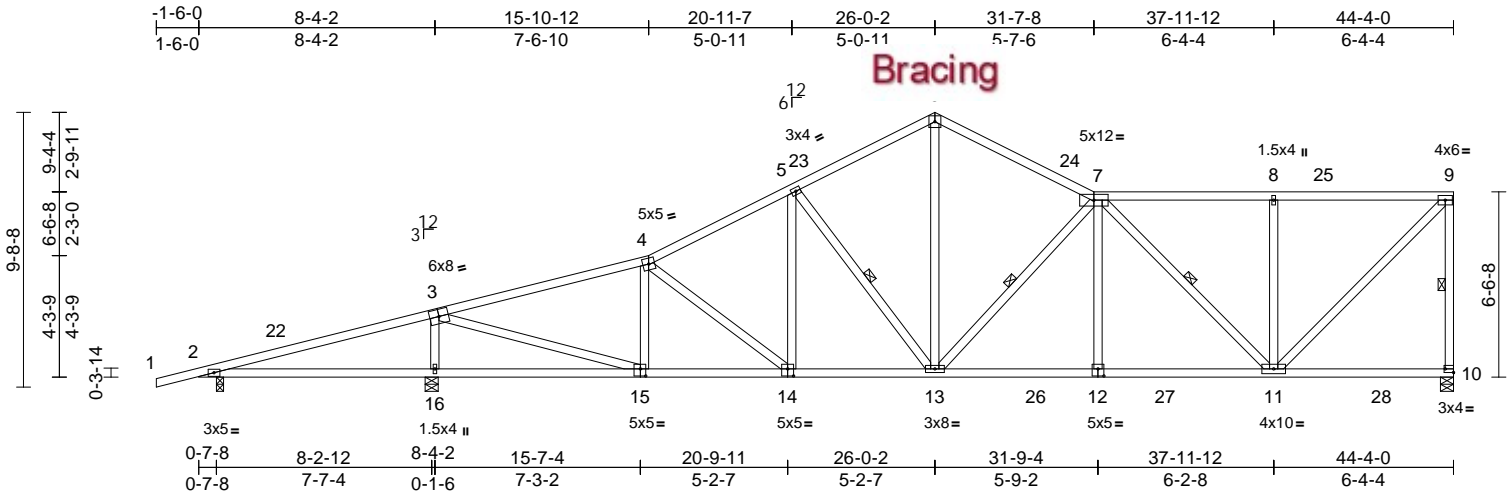
Job 1023-067	Truss C03	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T32352922
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:07

Page: 1

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Scale = 1:81.4

Plate Offsets (X, Y): [10:Edge,0-1-8], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.15	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.28	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	10	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
 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 9-10, 7-11, 5-13, 7-13

REACTIONS

(size) 2=0-3-0, 10=0-5-8, 16=0-5-8
 Max Horiz 2=234 (LC 11)
 Max Uplift 2=34 (LC 12), 16=-2 (LC 12)
 Max Grav 2=336 (LC 23), 10=1588 (LC 17), 16=2146 (LC 17)

FORCES

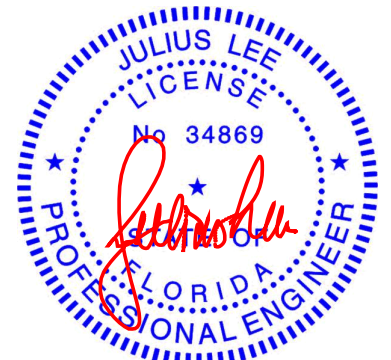
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/22, 2-4=-2188/509, 4-5=-2160/261, 5-6=-1755/277, 6-7=-1776/263, 7-8=-1355/200, 8-9=-1355/200, 9-10=-1460/173
 BOT CHORD 2-16=-456/209, 13-16=-369/2196, 11-13=-271/2088, 10-11=-79/98
 WEBS 3-16=-1828/276, 3-15=-206/2515, 4-15=-539/139, 7-12=0/314, 7-11=-1032/111, 8-11=-422/140, 9-11=-178/1869, 5-14=0/379, 4-14=-326/62, 6-13=-111/1256, 5-13=-619/99, 7-13=-841/132

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2 to 30-5-5, Interior (1) 30-5-5 to 44-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 16 and 34 lb uplift at joint 2.
- 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.

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:

December 14, 2023

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

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

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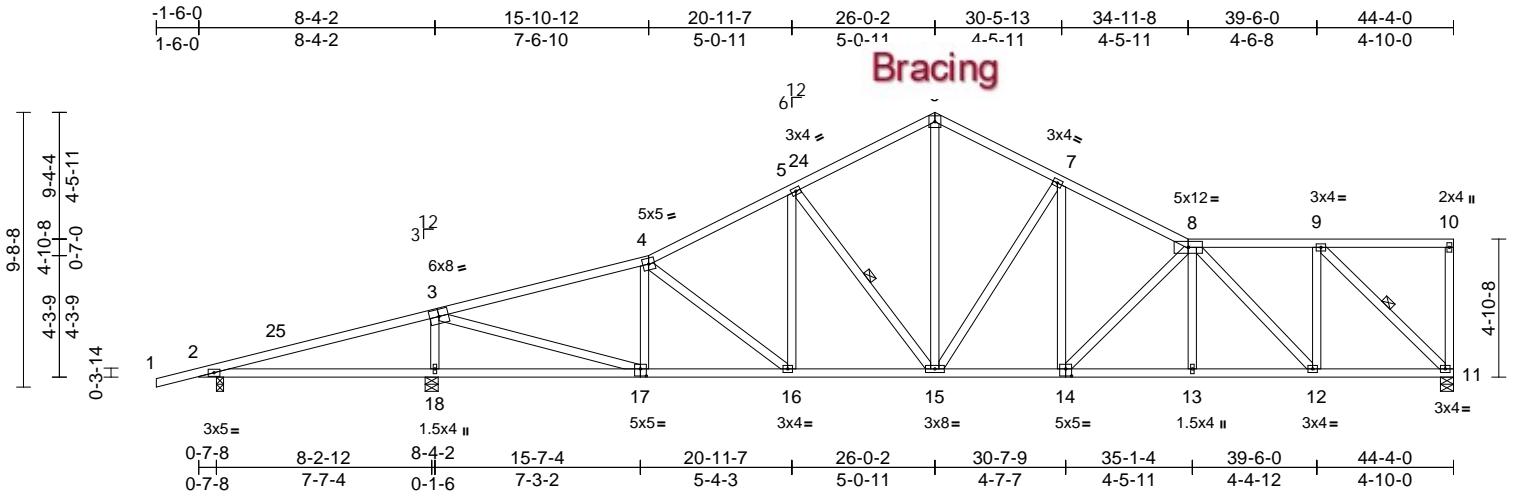
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss C04	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T32352923
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:08
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Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [14:0-2-8,0-3-0], [17:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.71	Vert(LL)	-0.12	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.25	15-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 269 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 9-11, 5-15

REACTIONS

(size) 2=0-3-0, 11=0-5-8, 18=0-5-8
Max Horiz 2=214 (LC 11)
Max Uplift 2=-35 (LC 12), 18=-1 (LC 12)
Max Grav 2=331 (LC 23), 11=1396 (LC 1), 18=1938 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

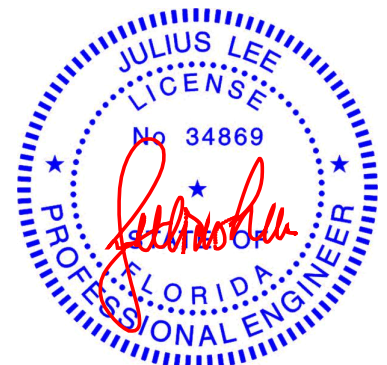
TOP CHORD 4-5=-1953/260, 5-6=-1590/277,
6-7=-1580/271, 7-8=-1991/267,
8-9=-1269/182, 9-10=-81/76, 10-11=-124/44,
1-2=0/22, 2-4=-1984/461
BOT CHORD 2-18=-406/209, 16-18=-332/1902,
15-16=-253/1689, 13-15=-256/2080,
12-13=-254/2083, 11-12=-173/1269
WEBS 3-18=-1741/277, 3-17=-208/2251,
4-17=-542/140, 8-13=0/169, 9-11=-1751/173,
5-16=0/332, 4-16=-322/60, 5-15=-572/102,
6-15=-136/1081, 7-15=-674/138,
7-14=-7/456, 8-14=-504/83, 9-12=-21/915,
8-12=-1157/116

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=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2 to 30-5-13, Interior (1) 30-5-13 to 44-2-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 18 and 35 lb uplift at joint 2.
- 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.

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:

December 14, 2023

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

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

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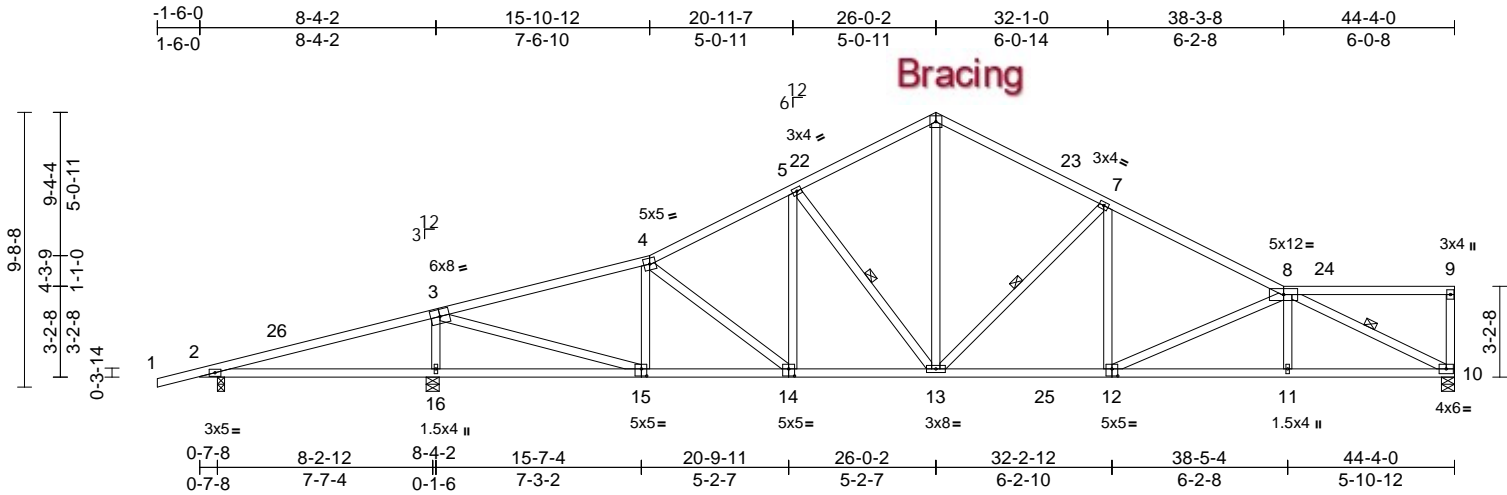
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss C05	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T32352924
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:08
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Page: 1



Scale = 1:81.4

Plate Offsets (X, Y): [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-4,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.73	Vert(LL)	-0.19	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.35	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							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, except end verticals.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 8-10, 5-13, 7-13

REACTIONS

(size) 2=0-3-0, 10=0-5-8, 16=0-5-8
Max Horiz 2=195 (LC 11)
Max Uplift 2=-36 (LC 12), 16=-1 (LC 21)
Max Grav 2=318 (LC 23), 10=1529 (LC 18), 16=2153 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 4-5=-2094/257, 5-6=-1733/274,
6-7=-1733/260, 7-8=-2405/256, 8-9=-88/53,
9-10=-177/55, 1-2=0/22, 2-4=-2107/604
BOT CHORD 2-16=-553/209, 13-16=-464/2116,
11-13=-251/2606, 10-11=-247/2616
WEBS 3-16=-1834/274, 3-15=-204/2521,
4-15=-555/138, 8-11=0/240, 8-10=-2874/234,
6-13=-110/1219, 5-14=0/364, 4-14=-307/59,
5-13=-604/109, 7-13=-883/144, 7-12=0/532,
8-12=-629/86

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
2-11-3, Interior (1) 2-11-3 to 26-0-2, Exterior(2R) 26-0-2
to 30-5-5, Interior (1) 30-5-5 to 44-2-4 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
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2.
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 1 lb uplift at joint
16 and 36 lb uplift at joint 2.
- 9) This truss design requires that a minimum of 7/16"
structural wood sheathing is applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.

LOAD CASE(S) Standard



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Date:

December 14, 2023

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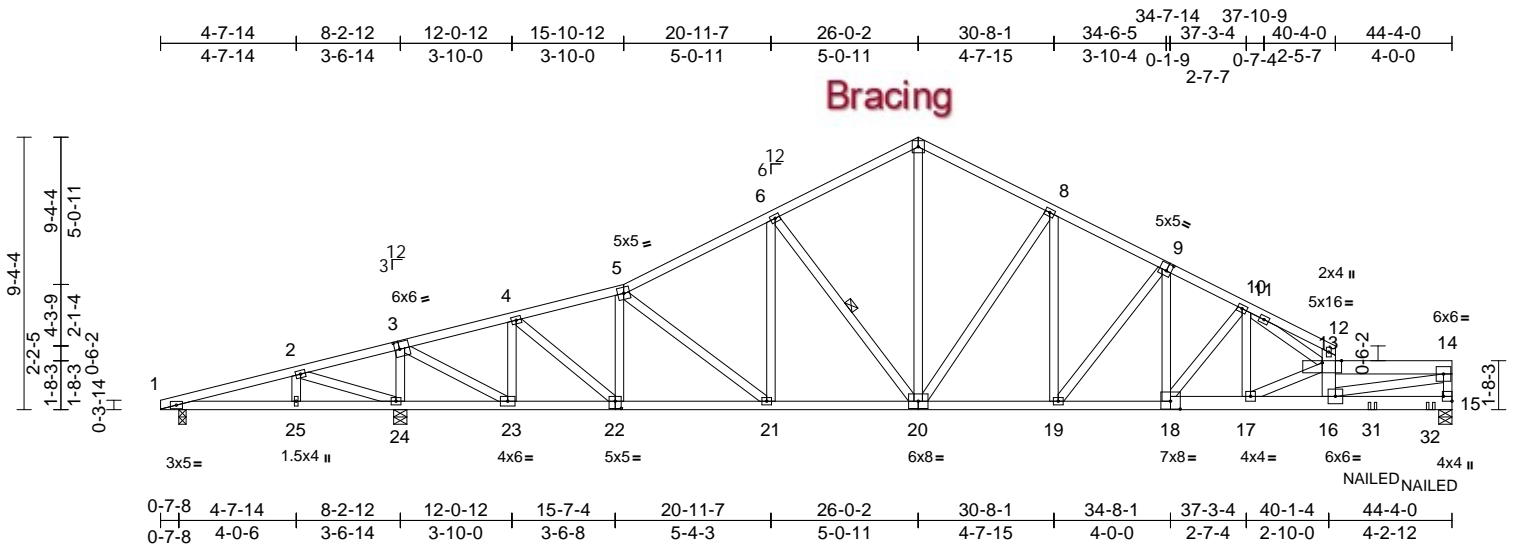
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss C06	Truss Type Roof Special Girder	Qty 1	Ply 1	Job Reference (optional) T32352925
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:79.1

Plate Offsets (X, Y): [3:0-2-0,0-3-0], [9:0-2-0,0-3-0], [15:Edge,0-3-8], [18:0-4-0,0-3-4], [22:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.15	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.29	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.06	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 289 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2 *Except* 13-14:2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 18-15:2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 12-16:2x6 SP No.2

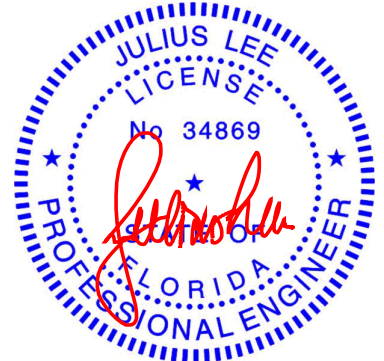
BRACING
TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 1-25,24-25
5-0-0 oc bracing: 23-24.
WEBS 1 Row at midpt 6-20

REACTIONS (size) 1=0-3-0, 15=0-5-8, 24=0-5-8
Max Horiz 1=151 (LC 7)
Max Uplift 1=-85 (LC 20), 15=-137 (LC 8), 24=-17 (LC 8)
Max Grav 1=59 (LC 26), 15=1235 (LC 1), 24=2193 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-34/716, 2-4=-848/1370, 4-5=-1644/33, 5-6=-1788/69, 6-7=-1495/108, 13-16=-1103/59, 12-13=-593/39, 13-14=-3138/178, 14-15=-1161/74, 7-8=-1485/109, 8-10=-2203/87, 10-11=-2545/78, 11-12=-1186/60
BOT CHORD 1-25=-664/10, 24-25=-664/10, 23-24=-1357/28, 21-23=0/1609, 19-21=0/1646, 17-19=-35/2203, 16-17=-122/2911, 15-16=-12/209
WEBS 5-22=-574/50, 5-21=-161/37, 6-21=0/250, 6-20=-508/54, 7-20=-34/1001, 14-16=-146/3052, 2-25=0/175, 2-24=-681/18, 3-24=-1891/58, 3-23=-13/2431, 4-23=-1090/47, 4-22=0/1025, 8-20=-667/65, 9-18=-1/327, 8-19=0/459, 9-19=-482/52, 10-17=-11/566, 10-18=-416/53, 13-17=-793/97, 11-13=-1449/17

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: Joint 1 SP No.2, Joint 24 SP No.2, Joint 15 SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 15, 17 lb uplift at joint 24 and 85 lb uplift at joint 1.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 (lb/ft)
Vert: 1-5=-60, 5-7=-60, 13-14=-60, 15-26=-20, 7-12=-60
Concentrated Loads (lb)
Vert: 31=67 (F), 32=63 (F)



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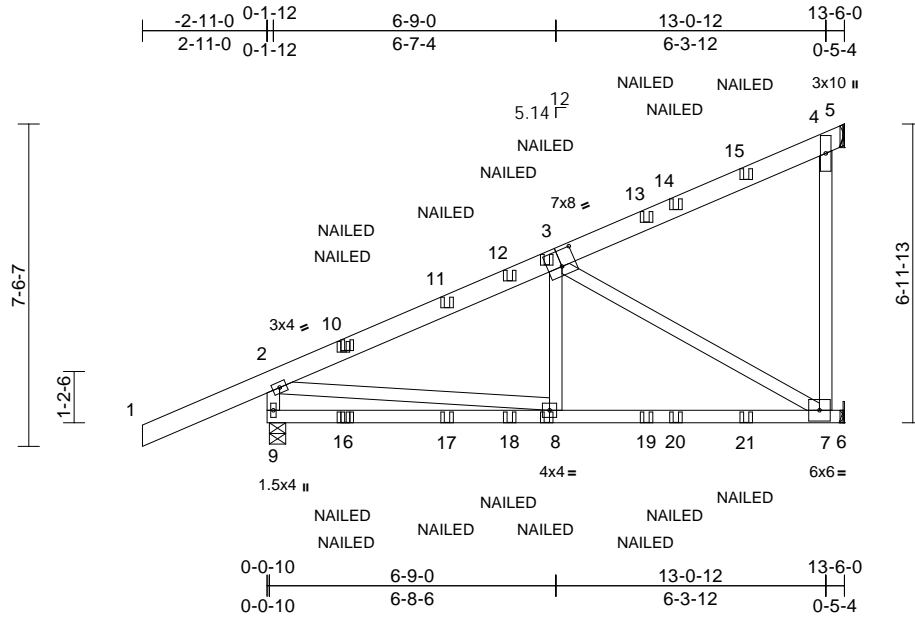
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Chesterfield, MO 63017
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Job 1023-067	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) T32352926
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:10
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Page: 1



Scale = 1:53.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.20	7-8	>798	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.32	7-8	>503	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.99	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.1
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) 5= Mechanical, 6= Mechanical, 9=0-4-9
Max Horiz 9=185 (LC 8)
Max Uplift 5=-449 (LC 8), 6=-367 (LC 1), 9=-213 (LC 8)
Max Grav 5=1295 (LC 13), 6=241 (LC 9), 9=900 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/72, 2-4=-1125/155, 4-5=-179/510
BOT CHORD 8-9=-185/38, 7-8=-227/946, 6-7=0/0
WEBS 2-9=-861/208, 3-8=-24/352, 4-7=-466/1217, 3-7=-1101/265, 2-8=-102/994

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 9 SP No.1 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 5, 213 lb uplift at joint 9 and 367 lb uplift at joint 6.
 - 8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-5=-60, 6-9=-20
Concentrated Loads (lb)
Vert: 3=-4 (B), 8=-5 (B), 10=47 (B), 12=-39 (F), 13=-42 (B), 14=-47 (F), 15=69 (B), 16=4 (F), 17=6 (B), 18=-25 (F), 19=-22 (B), 20=-209 (F), 21=-185 (B)



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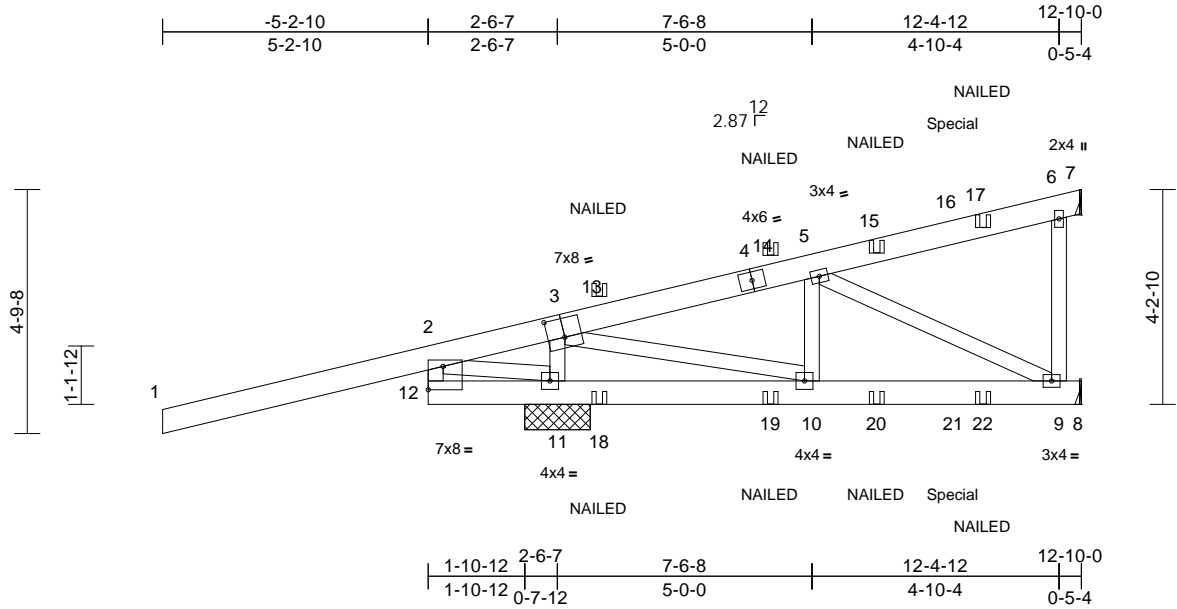
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Chesterfield, MO 63017
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Job 1023-067	Truss CJ02	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	Job Reference (optional) T32352927
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:45.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.04	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.06	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	-0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 3-1:2x6 SP SS
BOT CHORD 2x6 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, Except: 10-0-0 oc bracing: 8-9.

REACTIONS (size) 7= Mechanical, 8= Mechanical, 11=1-3-7
Max Horiz 11=134 (LC 25)
Max Uplift 7=-103 (LC 5), 8=-27 (LC 5), 11=-301 (LC 8)
Max Grav 7=274 (LC 1), 8=319 (LC 3), 11=1151 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-12=-74/20, 1-2=0/75, 2-5=-500/1236, 5-6=-59/33, 6-7=-25/63
BOT CHORD 11-12=-499/226, 10-11=-1190/443, 9-10=-151/408, 8-9=0/0
WEBS 6-9=-205/110, 5-10=-327/183, 5-9=-459/169, 3-11=-752/189, 2-11=-765/362, 3-10=-459/1457

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; Enclosed; 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.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 11 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7, 27 lb uplift at joint 8 and 301 lb uplift at joint 11.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 217 lb down at 10-3-14 on top chord, and 260 lb down and 106 lb up at 10-3-14 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-7=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 14=28 (B), 16=-88 (F), 18=-11 (F), 19=37 (B), 20=22 (B), 21=-260 (F)



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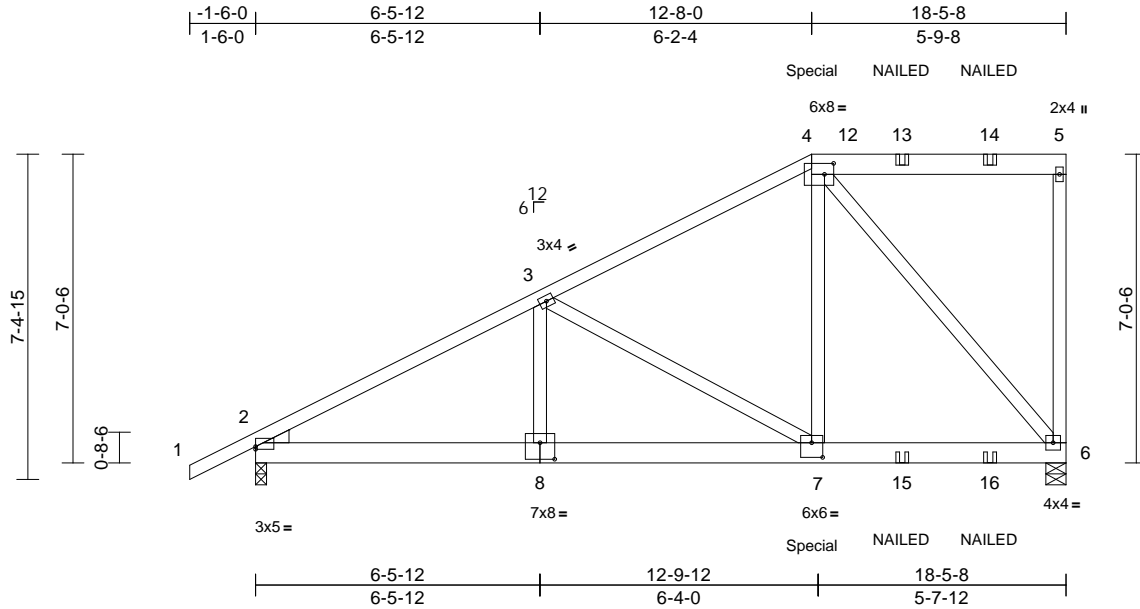
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Job 1023-067	Truss D01	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T32352928
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:10
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Page: 1



Scale = 1:52.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 253 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2
 WEDGE Left: 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=0-3-0, 6=0-5-8
 Max Horiz 2=206 (LC 7)
 Max Uplift 2=-357 (LC 8), 6=-1008 (LC 5)
 Max Grav 2=1634 (LC 13), 6=2983 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/40, 2-3=-2650/642, 3-4=-2247/774, 4-5=-90/74, 5-6=-301/32
 BOT CHORD 2-7=-610/2360, 6-7=-708/2002
 WEBS 3-8=-23/219, 3-7=-567/172, 4-7=-633/1482, 4-6=-3030/1015

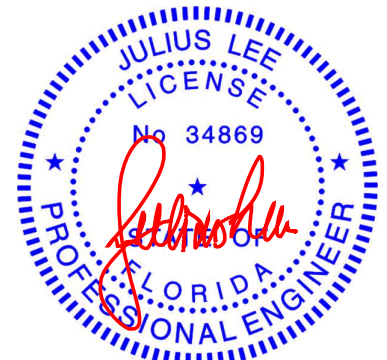
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional); cantilever left and right exposed ;
 end vertical left and right exposed; Lumber DOL=1.60
 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 357 lb uplift at joint 2 and 1008 lb uplift at joint 6.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1355 lb down and 457 lb up at 12-8-0 on top chord, and 622 lb down and 429 lb up at 12-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25,
 Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-4=-60, 4-5=-60, 6-9=-20
 Concentrated Loads (lb)
 Vert: 7=-418 (B), 4=-1174 (B), 13=-71 (B), 14=-71 (B), 15=-273 (B), 16=-273 (B)



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

December 14, 2023

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

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

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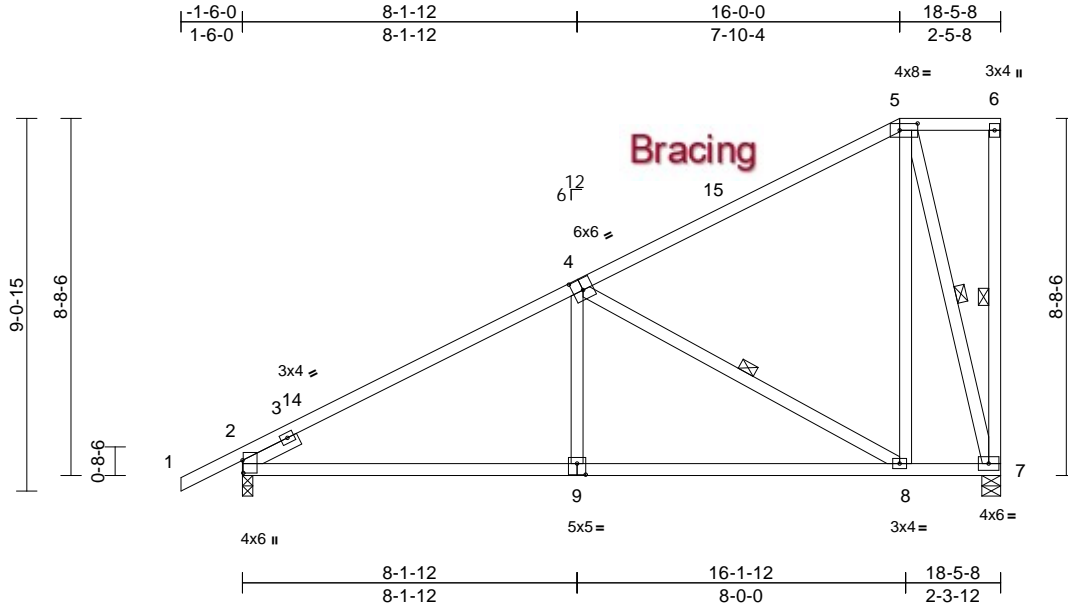
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss D02	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T32352929
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:11
ID:9B_ko2b4jjYhxA6KyQOjdZyPFWx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:56.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 118 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2
- SLIDER Left 2x4 SP No.2 -- 1-6-0

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) 2=0-3-0, 7=0-5-8
- Max Horiz 2=260 (LC 11)
- Max Uplift 2=-30 (LC 12), 7=-17 (LC 9)
- Max Grav 2=826 (LC 1), 7=729 (LC 1)

FORCES

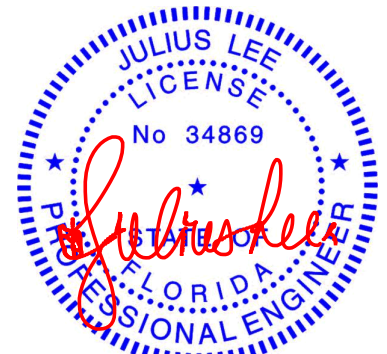
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/40, 2-5=-1015/117, 5-6=-119/129, 6-7=-55/64
- BOT CHORD 2-8=-330/838, 7-8=-119/242
- WEBS 4-9=0/337, 4-8=-736/106, 5-8=-18/539, 5-7=-760/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 16-0-0, Exterior(2E) 16-0-0 to 18-3-12 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 7 and 30 lb uplift at joint 2.
- 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.

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:

December 14, 2023

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

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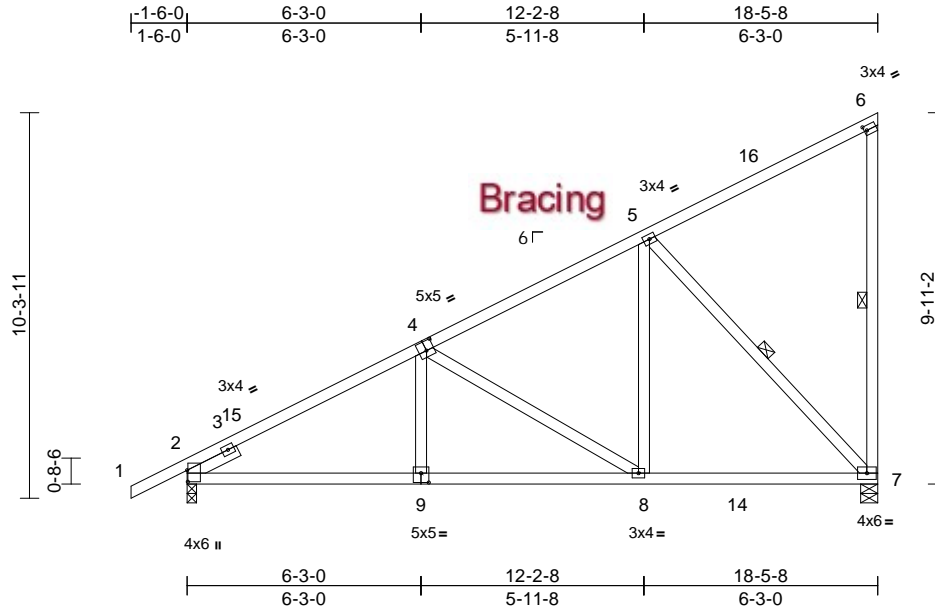
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss D03	Truss Type Monopitch	Qty 1	Ply 1	Job Reference (optional) T32352930
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:11
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Page: 1



Scale = 1:61.6

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.06	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.10	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS								
											Weight: 114 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.2
- SLIDER Left 2x4 SP No.2 -- 1-6-0

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) 2=0-3-0, 7=0-5-8
Max Horiz 2=294 (LC 11)
Max Uplift 2=-28 (LC 12), 7=-15 (LC 9)
Max Grav 2=900 (LC 17), 7=885 (LC 17)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 6-7=-152/106, 1-2=0/40, 2-5=-1170/127, 5-6=-178/133
- BOT CHORD 2-8=-388/1085, 7-8=-191/624
- WEBS 5-7=-863/147, 4-9=0/225, 4-8=-533/123, 5-8=-3/535

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 18-3-12 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SP No.2 .
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 7 and 28 lb uplift at joint 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.

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:

December 14, 2023

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

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

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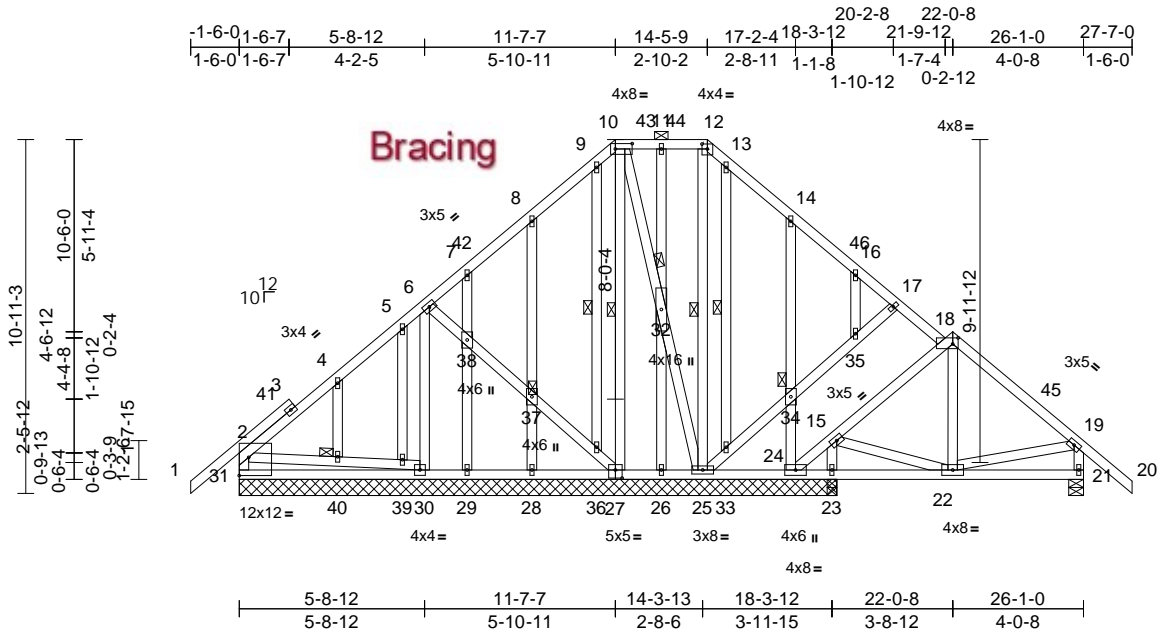
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss G01	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Job Reference (optional) T32352931
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:12
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Page: 1



Scale = 1:71.2

Plate Offsets (X, Y): [10:0-6-4,0-2-0], [12:0-2-0,0-1-13], [18:0-2-0,0-2-4], [27:0-2-8,0-3-0], [31:Edge,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.02	30-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	30-31	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS								
											Weight: 295 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 10-12, 18-24.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 10-27, 12-25, 13-33, 9-36
JOINTS 1 Brace at Jt(s): 32, 34, 37, 40

REACTIONS (size)
21=0-5-8, 23=0-3-8, 24=18-5-8, 25=18-5-8, 26=18-5-8, 27=18-5-8, 28=18-5-8, 29=18-5-8, 30=18-5-8, 31=18-5-8
Max Horiz 31=238 (LC 11)
Max Uplift 21=-26 (LC 12), 24=-130 (LC 12), 27=-6 (LC 12), 28=-36 (LC 12), 29=-28 (LC 12), 31=-18 (LC 12)
Max Grav 21=414 (LC 24), 23=210 (LC 3), 24=291 (LC 18), 25=322 (LC 1), 26=94 (LC 24), 27=173 (LC 17), 28=223 (LC 17), 29=21 (LC 23), 30=356 (LC 23), 31=303 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/56, 2-4=-128/107, 4-5=-87/144, 5-6=-64/133, 6-7=-74/94, 7-8=-59/134, 8-9=-46/111, 9-10=-46/125, 10-11=-44/112, 11-12=-44/112, 18-19=-268/11, 19-20=0/63, 2-31=-240/70, 19-21=-373/56, 12-13=-44/121, 13-14=-45/110, 14-16=0/131, 16-17=-11/79, 17-18=-74/26, 15-24=-62/89, 15-18=-169/36

BOT CHORD 30-31=-137/320, 29-30=-133/136, 28-29=-133/136, 26-28=-133/187, 25-26=-129/187, 24-25=-78/144, 23-24=-36/76, 22-23=-36/76, 21-22=0/53
WEBS 6-30=-163/3, 6-38=-56/65, 37-38=-57/67, 36-37=-54/66, 27-36=-72/79, 10-27=-68/0, 10-32=-63/0, 25-32=-69/0, 12-25=-118/0, 25-33=-126/55, 33-34=-95/49, 34-35=-124/58, 17-35=-94/46, 2-40=-255/121, 39-40=-258/122, 30-39=-275/129, 11-32=-87/2, 26-32=-81/2, 13-33=-47/14, 14-34=-178/103, 24-34=-222/118, 16-35=-46/19, 9-36=-44/22, 8-37=-155/92, 28-37=-166/95, 7-38=-43/24, 29-38=-40/21, 5-39=-52/23, 4-40=-43/17, 18-22=0/118, 19-22=-10/104, 15-23=-129/0, 15-22=0/125

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-7-7, Exterior(2E) 11-7-7 to 14-5-9, Exterior(2R) 14-5-9 to 18-8-8, Interior (1) 18-8-8 to 27-7-0 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
 - 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.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 31, 6 lb uplift at joint 27, 26 lb uplift at joint 21, 130 lb uplift at joint 24, 36 lb uplift at joint 28 and 28 lb uplift at joint 29.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14,2023

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

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

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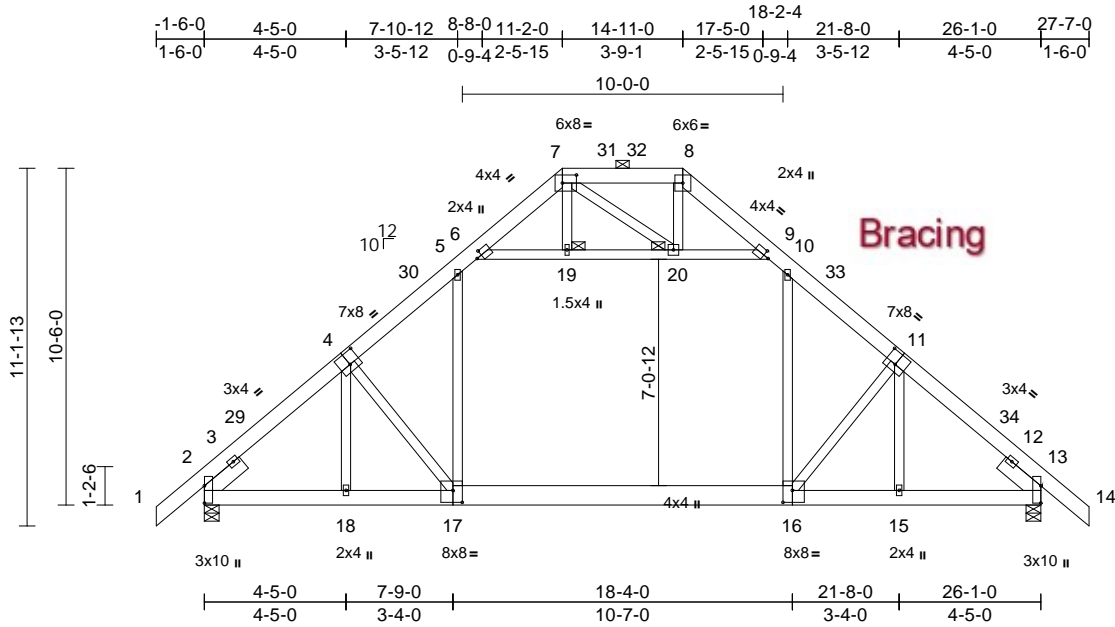
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss G02	Truss Type Attic	Qty 14	Ply 1	Job Reference (optional) T32352932
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:12
ID:ho?Jxd9ASKfgNfTGuz_TgEyPEg_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:71.8

Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-5-4,0-3-0], [9:0-2-1,0-2-0], [11:0-4-0,0-4-8], [13:Edge,0-0-0], [16:0-3-8,0-4-8], [17:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.15	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.23	16-17	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.12	16-17	>999	360	Weight: 235 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2 *Except* 17-16:2x8 SP 2400F 2.0E
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 7-8.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS

(size) 2=0-5-8, 13=0-5-8
 Max Horiz 2=-214 (LC 10)
 Max Grav 2=1525 (LC 18), 13=1525 (LC 19)

FORCES

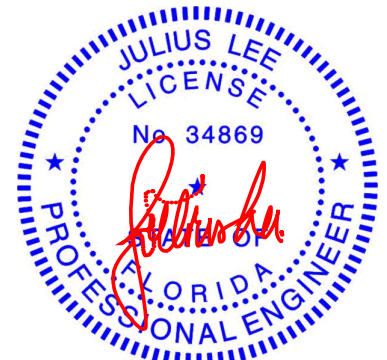
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/58, 2-5=-1768/0, 5-6=-1207/0, 6-7=-396/66, 7-8=-255/75, 8-9=-389/63, 9-10=-1207/0, 10-13=-1767/0, 13-14=0/58
 BOT CHORD 2-18=0/1368, 15-18=0/1367, 13-15=0/1215
 WEBS 5-17=0/766, 10-16=0/763, 6-19=-1137/0, 19-20=-1133/0, 9-20=-1148/0, 11-15=-375/29, 11-16=-156/285, 4-18=-377/26, 4-17=-156/285, 7-19=0/61, 8-20=-16/115, 7-20=-120/104

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 27-7-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s). 5-17, 10-16
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17
- 9) All bearings are assumed to be SP No.2.
- 10) 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.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

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:

December 14, 2023

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

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

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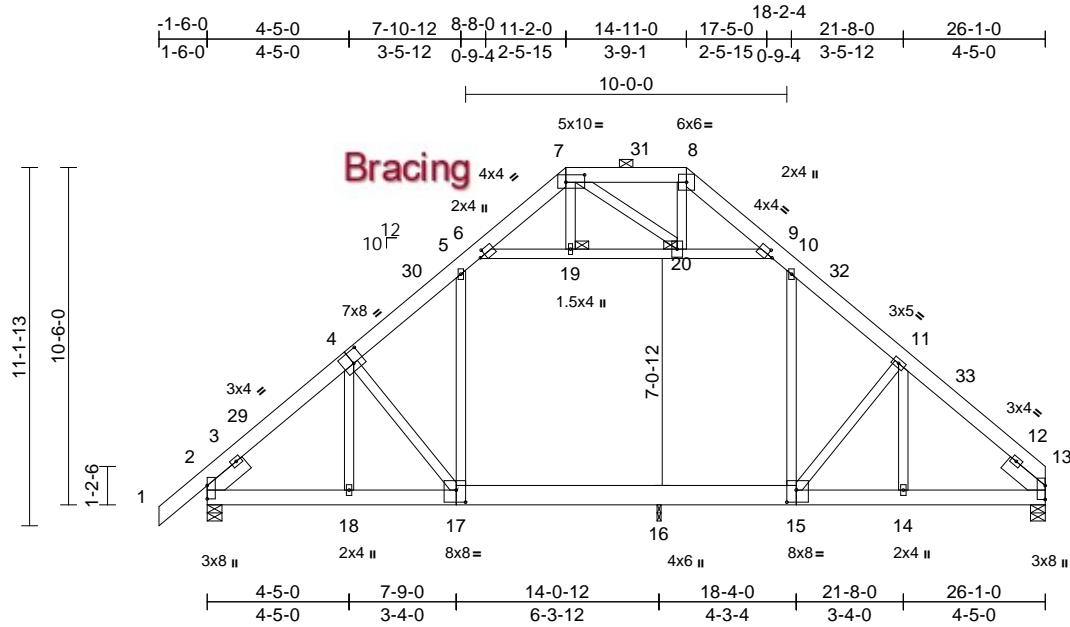
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss G03	Truss Type Attic	Qty 1	Ply 1	Job Reference (optional) T32352933
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:13
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Page: 1



Scale = 1:71.7

Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-7-0,0-2-12], [9:0-2-1,0-2-0], [13:Edge,0-0-0], [15:0-3-8,0-4-8], [17:0-3-8,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	-0.10	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.15	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.08	15-16	>999	360	Weight: 231 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 17-15:2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 19, 20

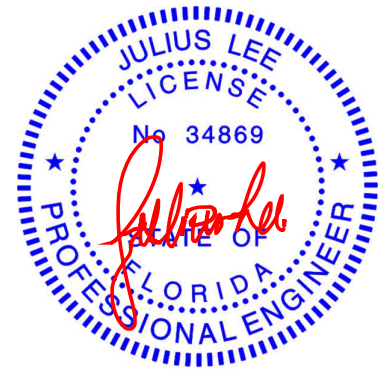
REACTIONS
(size) 2=0-5-8, 13=0-5-8, 16=0-1-8
Max Horiz 2=205 (LC 11)
Max Grav 2=1203 (LC 18), 13=1021 (LC 18), 16=813 (LC 16)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-5=-1333/0, 5-6=-821/42, 6-7=-404/63, 7-8=-213/76, 8-9=-314/56, 9-10=-884/54, 10-11=-1160/17, 11-13=-1205/0
BOT CHORD 2-18=-14/1074, 16-18=0/1074, 14-16=0/916, 13-14=0/861
WEBS 5-17=0/374, 10-15=-16/257, 6-19=-601/26, 19-20=-599/28, 9-20=-803/32, 4-18=-29/127, 4-17=-256/89, 11-14=-133/149, 11-15=-263/132, 7-19=-3/102, 8-20=-47/61, 7-20=-246/29

NOTES
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft;
B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 26-1-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s). 5-17, 10-15
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
- 9) Bearings are assumed to be: Joint 2 SP No.2, Joint 16 SP 2400F 2.0E, Joint 13 SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

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:

December 14, 2023

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

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

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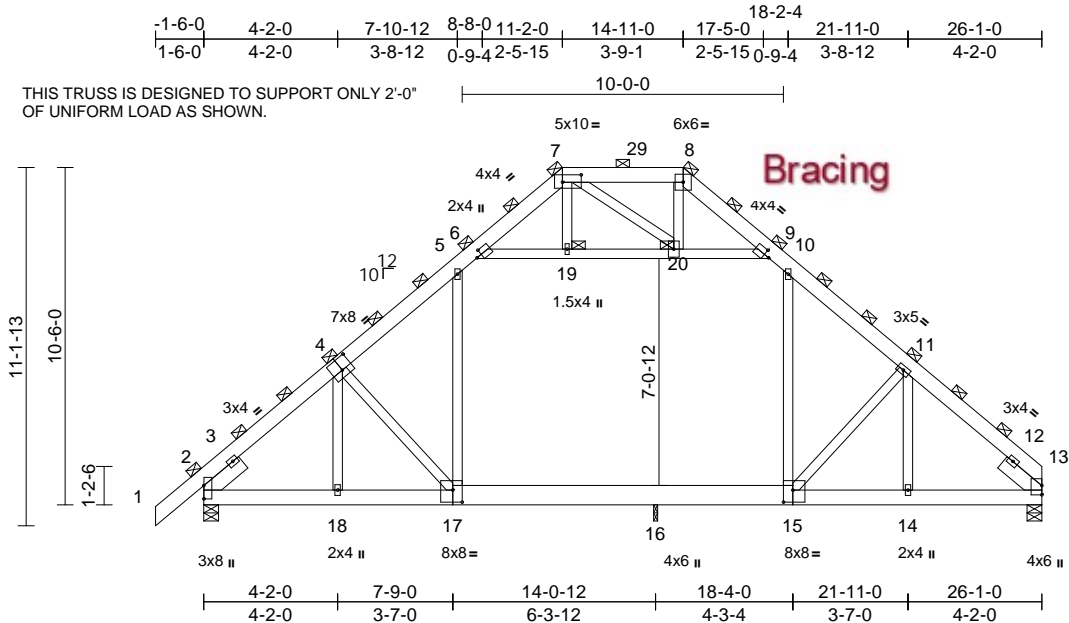
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss G04	Truss Type Attic Girder	Qty 1	Ply 2	Job Reference (optional) T32352934
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:13
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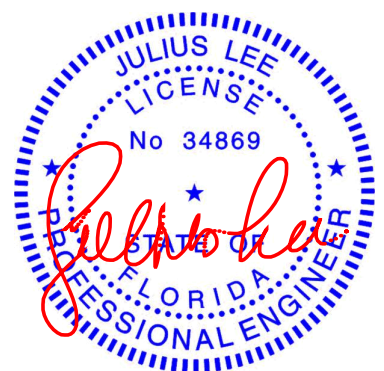
Page: 1



Scale = 1:71.7
Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [7:0-7-0,0-2-12], [9:0-2-1,0-2-0], [15:0-3-8,0-4-8], [17:0-3-8,0-4-8]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.08	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.35	Vert(CT)	-0.12	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.06	15-16	>999	360	Weight: 461 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
 - BOT CHORD 2x6 SP No.2 *Except* 17-15:2x8 SP 2400F 2.0E
 - WEBS 2x4 SP No.2
 - SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0
- BRACING**
- TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-0-0).
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 - JOINTS 1 Brace at Jt(s): 7, 8, 19, 20
- REACTIONS** (size) 2=0-5-8, 13=0-5-8, 16=0-1-8
Max Horiz 2=307 (LC 7)
Max Grav 2=1801 (LC 14), 13=1529 (LC 14), 16=1225 (LC 12)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/86, 2-5=-1995/0, 5-6=-1232/46, 6-7=-594/56, 7-8=-302/86, 8-9=-457/52, 9-10=-1323/40, 10-11=-1746/0, 11-13=-1796/0
 - BOT CHORD 2-18=-10/1611, 16-18=0/1611, 14-16=0/1373, 13-14=0/1280
 - WEBS 4-18=-51/184, 4-17=-360/131, 5-17=0/547, 10-15=-2/389, 11-15=-373/200, 11-14=-206/213, 6-19=-910/42, 19-20=-907/45, 9-20=-1208/37, 7-19=0/154, 8-20=-65/80, 7-20=-350/37
- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 5-6, 9-10, 6-19, 19-20, 9-20; Wall dead load (5.0psf) on member (s).5-17, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-17, 15-16
 - Bearings are assumed to be: Joint 2 SP No.2 , Joint 16 SP 2400F 2.0E , Joint 13 SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- 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:

December 14,2023

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

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

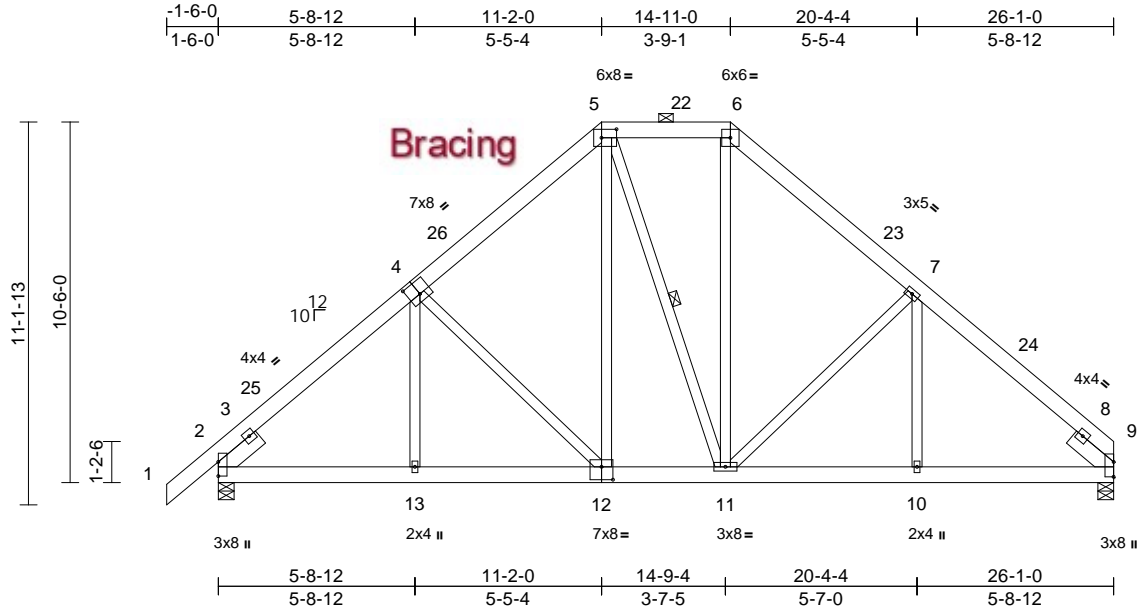
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss G05	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T32352935
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:14
ID:6XHj?akf?UUw7vqv0?1ZpeyOldQ-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.1
Plate Offsets (X, Y): [2:Edge,0-0-0], [4:0-4-0,0-4-8], [5:0-5-4,0-3-0], [9:Edge,0-0-0], [12:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.03	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.06	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 231 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0, Right 2x6 SP No.2 -- 1-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-11

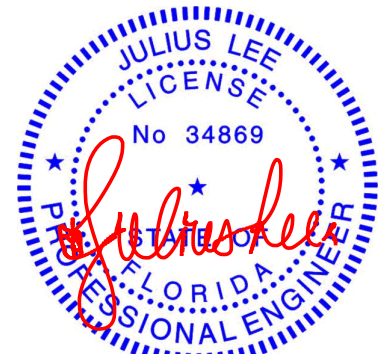
REACTIONS (size) 2=0-5-8, 9=0-5-8
Max Horiz 2=205 (LC 11)
Max Uplift 2=-38 (LC 12)
Max Grav 2=1136 (LC 1), 9=1041 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 5-6=-677/124, 6-7=-985/126, 7-9=-1240/55, 1-2=0/58, 2-5=-1232/113
BOT CHORD 2-13=-41/892, 11-13=0/892, 10-11=0/867, 9-10=-7/867
WEBS 4-13=0/183, 4-12=-305/90, 5-12=-10/319, 5-11=-101/121, 6-11=-23/325, 7-11=-315/94, 7-10=0/184

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=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 11-2-0, Exterior(2E) 11-2-0 to 14-11-0, Exterior(2R) 14-11-0 to 19-1-15, Interior (1) 19-1-15 to 26-1-0 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

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 2.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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

MiTek®

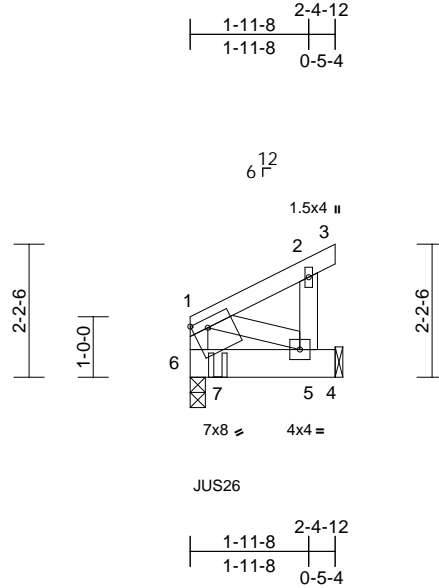
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss G06	Truss Type Jack-Open Girder	Qty 1	Ply 1	Job Reference (optional) T32352936
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:14
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Page: 1



Scale = 1:38.1

Plate Offsets (X, Y): [6:Edge,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 15 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 2-4-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 6=0-3-0

Max Horiz 6=43 (LC 8)
Max Grav 4=191 (LC 1), 6=682 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-51/0, 1-2=-26/26, 2-3=-12/0
BOT CHORD 5-6=-36/16, 4-5=0/0
WEBS 2-5=-84/33, 1-5=-17/39

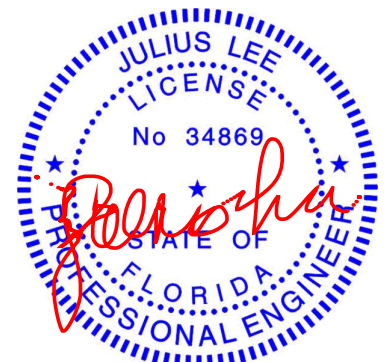
NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 6 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.

- 8) Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 0-5-8 from the left end to connect truss(es) to front face of bottom chord.
- 9) Fill all nail holes where hanger is in contact with lumber.
- 10) 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 (lb/ft)
Vert: 1-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-694 (F)



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

December 14, 2023

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

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

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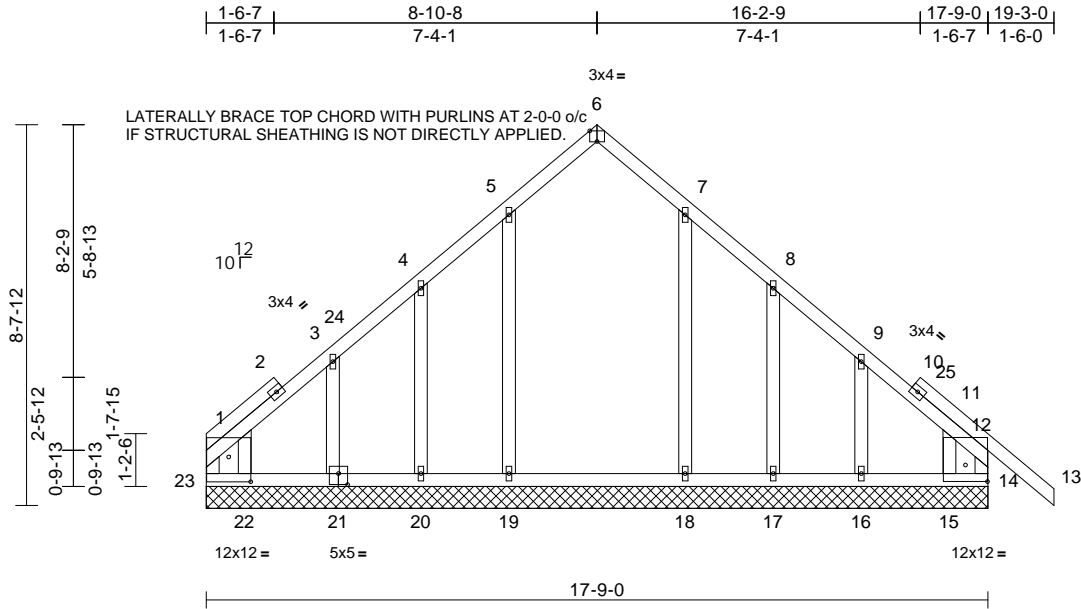
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H01	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32352937
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 9.04 S 8.73 Nov 16 2023 Print: 8.730 S Nov 16 2023 MiTek Industries, Inc. Thu Dec 14 11:53:52
ID: L_xskz_GCvjcyxXu5CDKYyOH71-Tv9M0J_aQi_nHBJmmQ4jY4ZyLRtykuZb54cCVhy9EUT

Page: 1



Scale = 1:52.3

Plate Offsets (X, Y): [6:0-2-0,Edge], [14:0-6-0,0-4-8], [21:0-2-8,0-3-0], [23:0-6-0,0-6-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 114 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

- All bearings 17-9-0.
- (lb) - Max Horiz 23=180 (LC 10)
- Max Uplift All uplift 100 (lb) or less at joint(s) 14, 16, 17, 20, 21, 23 except 15=139 (LC 12), 22=124 (LC 12)
- Max Grav All reactions 250 (lb) or less at joint (s) 15, 16, 17, 20, 21, 22, 23 except 14=312 (LC 17), 18=301 (LC 18), 19=316 (LC 17)

FORCES

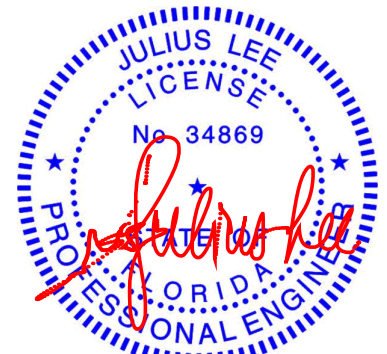
- (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
- TOP CHORD 1-23=-278/92, 11-12=-253/101, 12-14=-268/63

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-14 to 3-3-14, Exterior(2N) 3-3-14 to 8-10-8, Corner(3R) 8-10-8 to 11-10-8, Exterior(2N) 11-10-8 to 19-3-0 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

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 23, 14, 20, 21, 17, 16 except (jt=lb) 22=123, 15=139.
- 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.

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:

December 14, 2023

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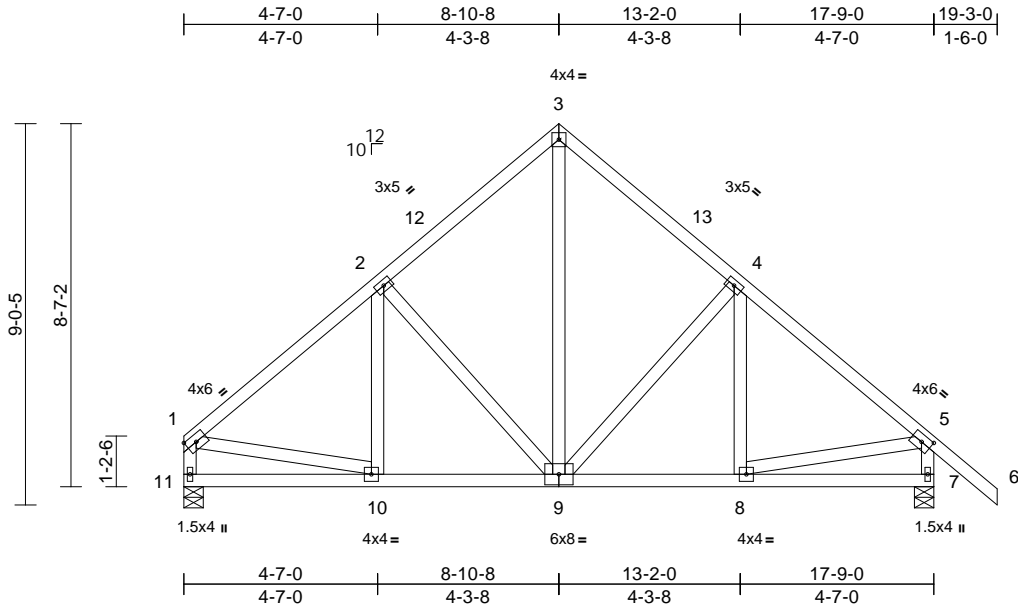
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H02	Truss Type Common	Qty 1	Ply 1	Job Reference (optional) T32352938
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:15
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Page: 1



Scale = 1:54.5

Plate Offsets (X, Y): [5:0-2-14,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.03	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 122 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) 7=0-5-8, 11=0-5-8

Max Horiz 11=-190 (LC 10)
Max Uplift 7=-41 (LC 12)
Max Grav 7=802 (LC 1), 11=694 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-752/55, 2-3=-577/117, 3-4=-576/115, 4-5=-746/53, 5-6=0/63, 1-11=-648/44, 5-7=-757/93

BOT CHORD 10-11=-136/241, 8-10=0/570, 7-8=0/85

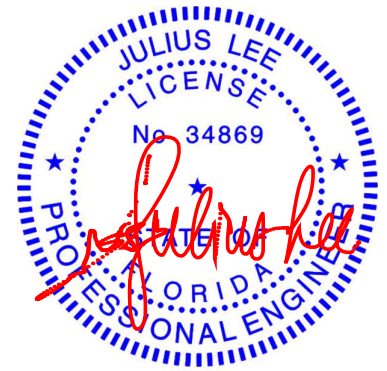
WEBS 1-10=0/432, 5-8=0/463, 2-10=-8/110, 2-9=-245/84, 3-9=-63/391, 4-9=-230/83, 4-8=-15/108

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-10-8, Exterior(2R) 8-10-8 to 11-10-8, Interior (1) 11-10-8 to 19-3-0 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 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.

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:

December 14, 2023

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

Job 1023-067	Truss H03	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Job Reference (optional)	T32352939
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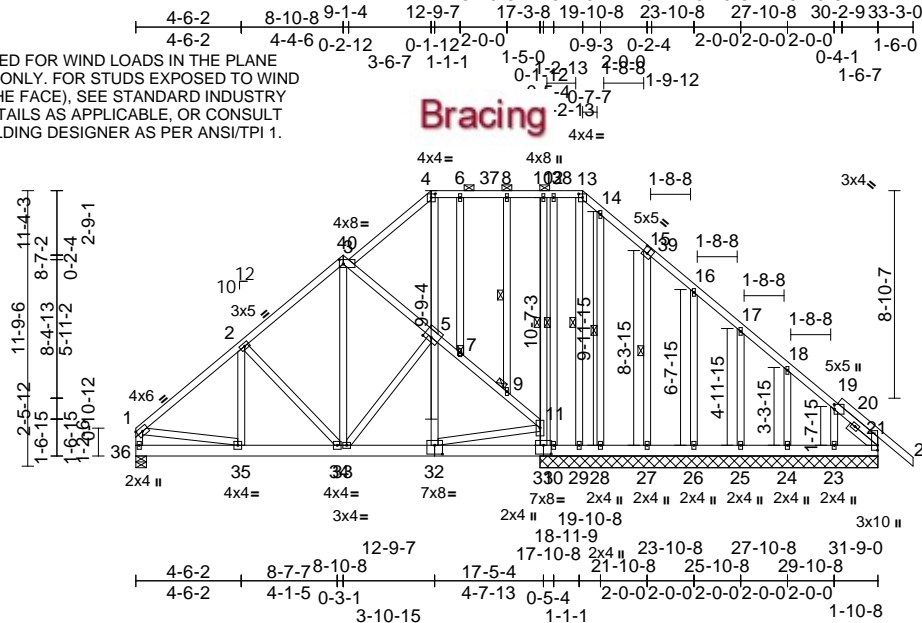
Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:15

Page: 1

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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.



Scale = 1:98.6

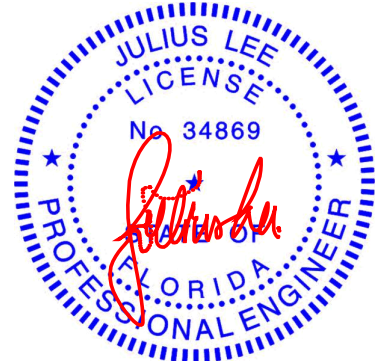
Plate Offsets (X, Y): [3:0-2-0,0-2-4], [4:0-2-0,0-1-13], [5:0-4-0,0-2-0], [13:0-2-0,0-1-13], [15:0-2-8,0-3-0], [19:0-2-8,0-1-13], [21:0-2-8,0-0-1], [31:0-4-0,0-4-8], [32:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.01	34-35	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.03	34-35	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	21	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS								

Weight: 344 lb FT = 20%

LUMBER					
TOP CHORD	2x4 SP No.2	BOT CHORD	35-36=-175/300, 34-35=0/624, 33-34=0/461, 30-33=-109/544, 29-30=-109/171, 28-29=-109/172, 27-28=-109/172, 26-27=-108/171, 25-26=-108/171, 24-25=-108/171, 23-24=-108/171, 21-23=-115/176	8) All bearings are assumed to be SP No.2 .	
BOT CHORD	2x6 SP No.2			9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 285 lb uplift at joint 30, 6 lb uplift at joint 28, 30 lb uplift at joint 26, 33 lb uplift at joint 25, 26 lb uplift at joint 24, 65 lb uplift at joint 23 and 39 lb uplift at joint 27.	
WEBS	2x4 SP No.2			10) 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.	
SLIDER	Right 2x4 SP No.2 -- 1-6-0	WEBS	4-5=-199/1, 13-29=-63/40, 8-9=-23/11, 6-7=-63/12, 12-30=-43/0, 14-28=-93/38, 16-26=-125/57, 17-25=-132/61, 18-24=-128/52, 19-23=-114/69, 15-27=-139/80, 3-33=0/393, 5-32=-60/65, 5-33=-160/0, 11-32=-31/494, 2-35=-5/114, 2-34=-240/77, 1-35=0/409, 11-31=-695/82, 10-11=-186/42	11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.	
BRACING					
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-13, 3-11.				
BOT CHORD	Rigid ceiling directly applied.				
WEBS	1 Row at midpt 13-29, 8-9, 12-30, 14-28, 15-27, 10-31				
JOINTS	1 Brace at Jt(s): 9, 7				

REACTIONS	(size)	NOTES
Max Horiz	36=-242 (LC 10)	1) Unbalanced roof live loads have been considered for this design.
Max Uplift	23=65 (LC 12), 24=-26 (LC 12), 25=33 (LC 12), 26=30 (LC 12), 27=39 (LC 12), 28=6 (LC 12), 30=285 (LC 3)	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDD=6.0psf; BCDD=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-14, Interior (1) 3-3-14 to 12-7-11, Exterior(2R) 12-7-11 to 15-10-8, Interior (1) 15-10-8 to 19-1-5, Exterior(2R) 19-1-5 to 22-3-7, Interior (1) 22-3-7 to 33-3-0 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
Max Grav	21=210 (LC 24), 23=163 (LC 18), 24=170 (LC 18), 25=172 (LC 18), 26=164 (LC 18), 27=181 (LC 18), 28=120 (LC 18), 29=73 (LC 12), 30=48 (LC 12), 31=1021 (LC 23), 36=683 (LC 1)	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.
FORCES	(lb) - Maximum Compression/Maximum Tension	4) Provide adequate drainage to prevent water ponding.
TOP CHORD	1-2=-748/38, 2-3=-571/97, 4-6=-84/127, 6-8=-84/127, 8-10=-84/127, 10-12=-84/128, 12-13=-84/128, 13-14=-104/148, 14-16=-92/125, 16-17=-58/49, 17-18=-71/69, 18-19=-117/88, 19-21=-174/130, 21-22=0/47, 1-36=-632/28, 3-4=-108/130, 3-5=-512/79, 5-7=-601/38, 7-9=-625/39, 9-11=-638/46	5) All plates are 1.5x4 MT20 unless otherwise indicated.



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

December 14, 2023

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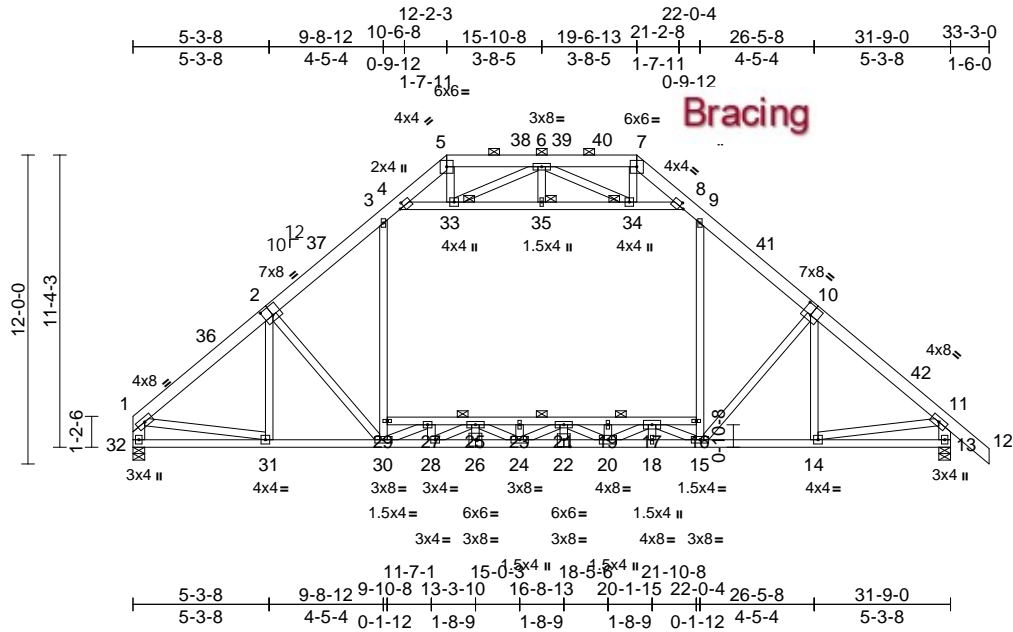
16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MiTek-US.com

Job 1023-067	Truss H04	Truss Type Attic	Qty 2	Ply 1	Job Reference (optional)	T32352940
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:16
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Page: 1



Scale = 1:89.5
 Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [22:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.22	30-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.32	23-25	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.20	16-29	>755	360	Weight: 293 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* 22-13,26-22:2x4 SP No.1
 WEBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP No.2

BRACING
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied.
 JOINTS 1 Brace at Jt(s): 33, 34, 35

WEBS
 29-30=0/767, 3-29=0/858, 15-16=0/749, 9-16=0/857, 4-33=-1411/0, 33-35=-1009/0, 34-35=-1009/0, 8-34=-1417/0, 2-31=-230/17, 10-14=-243/19, 10-15=-233/129, 2-30=-251/129, 1-31=0/1430, 11-14=0/1414, 5-33=-1/321, 7-34=-1/323, 6-35=0/77, 6-33=-522/37, 6-34=-527/41, 27-28=0/344, 25-26=-1/66, 23-24=-220/0, 21-22=-33/28, 19-20=-206/0, 17-18=-216/55, 15-17=-1271/0, 17-20=0/1072, 20-21=-390/0, 21-24=-29/163, 24-25=0/539, 25-28=-946/0, 27-30=-1327/0

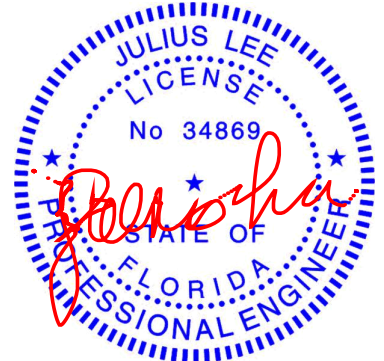
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
- 9) Bearings are assumed to be: Joint 32 SP No.2, Joint 13 SP No.1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.

REACTIONS (size) 13=0-5-8, 32=0-5-8
 Max Horiz 32=251 (LC 10)
 Max Grav 13=1916 (LC 19), 32=1815 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-3=-2193/0, 3-4=-1503/0, 4-5=-623/46, 5-6=-495/54, 6-7=-492/51, 7-8=-621/46, 8-9=-1506/0, 9-11=-2184/0, 11-12=0/66, 1-32=-1756/0, 11-13=-1855/0
 BOT CHORD 31-32=-96/376, 30-31=0/1782, 28-30=0/2689, 24-28=0/3319, 20-24=0/3694, 18-20=0/2458, 15-18=0/2458, 14-15=0/1584, 13-14=0/233, 27-29=-62/156, 25-27=-1113/0, 23-25=-2436/0, 21-23=-2436/0, 19-21=-2020/0, 17-19=-2020/0, 16-17=-63/156

- 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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-4-14, Interior (1) 3-4-14 to 12-2-3, Exterior(2R) 12-2-3 to 16-8-1, Interior (1) 16-8-1 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-11, Interior (1) 24-0-11 to 33-3-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34

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:

December 14, 2023

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

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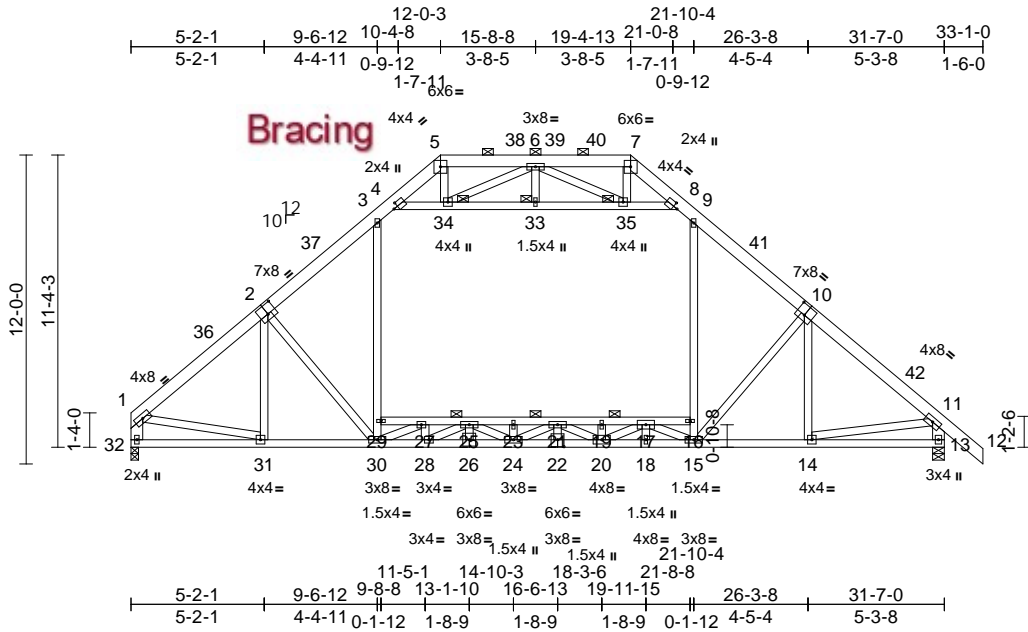
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss H05	Truss Type Attic	Qty 2	Ply 1	Job Reference (optional) T32352941
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:17
ID:YTrcHA5hCXa?hALpBf8c?yOGkF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:89.5

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [22:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.22	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.32	19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.19	16-29	>761	360	Weight: 293 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 22-13,26-22:2x4 SP No.1
WEBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 33, 34, 35

WEBS
29-30=0/739, 3-29=0/835, 15-16=0/750, 9-16=0/858, 4-34=-1405/0, 33-34=-995/0, 33-35=-995/0, 8-35=-1383/0, 6-33=0/77, 5-34=0/325, 7-35=-2/316, 6-34=-531/35, 6-35=-513/43, 10-14=-237/20, 2-31=-279/11, 2-30=-212/148, 10-15=-241/126, 1-31=0/1424, 11-14=0/1412, 27-28=0/339, 25-26=0/68, 23-24=-220/0, 21-22=-32/29, 19-20=-206/0, 17-18=-203/61, 15-17=-1282/0, 17-20=0/1061, 20-21=-385/0, 21-24=-34/153, 24-25=0/545, 25-28=-957/0, 27-30=-1320/0

- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
 - Bearings are assumed to be: Joint 32 SP No.2, Joint 13 SP No.1.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard

REACTIONS (size) 13=0-5-8, 32=0-3-8
Max Horiz 32=253 (LC 10)
Max Grav 13=1907 (LC 19), 32=1812 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2125/0, 3-4=-1493/0, 4-5=-620/47, 5-6=-487/55, 6-7=-501/49, 7-8=-626/45, 8-9=-1489/0, 9-11=-2174/0, 11-12=0/66, 1-32=-1753/0, 11-13=-1847/0
BOT CHORD 31-32=-120/340, 30-31=0/1731, 28-30=0/2652, 24-28=0/3294, 20-24=0/3686, 18-20=0/2465, 15-18=0/2465, 14-15=0/1577, 13-14=0/228, 27-29=-52/165, 25-27=-1097/0, 23-25=-2434/0, 21-23=-2434/0, 19-21=-2029/0, 17-19=-2029/0, 16-17=-69/144

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-12 to 3-6-10, Interior (1) 3-6-10 to 12-2-3, Exterior(2R) 12-2-3 to 16-7-13, Interior (1) 16-7-13 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-6, Interior (1) 24-0-6 to 33-3-0 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-34, 33-34, 33-35, 8-35




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

December 14, 2023

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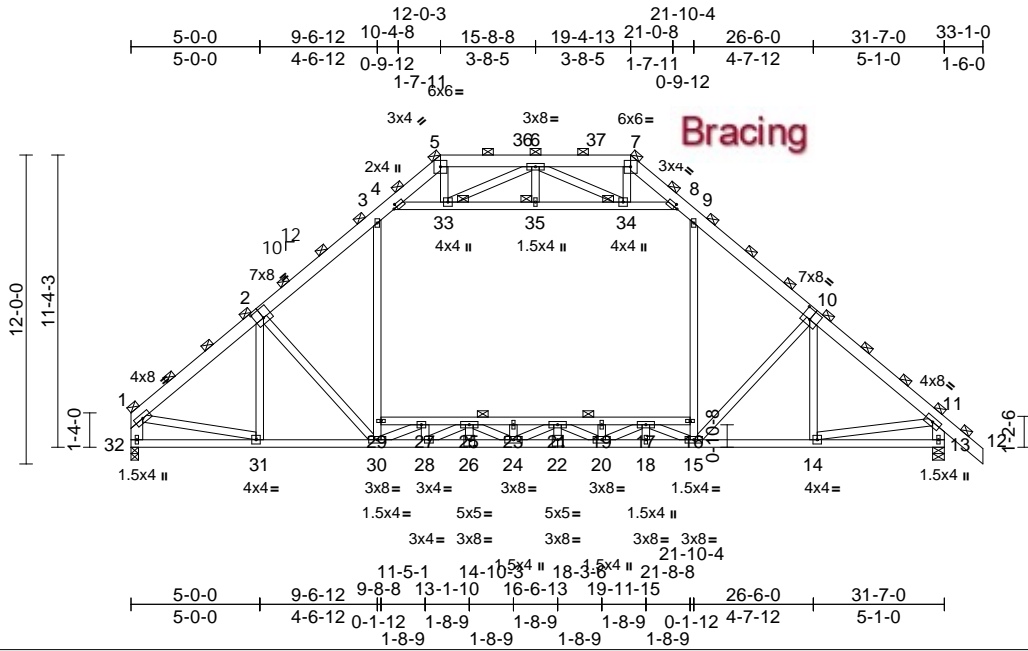
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H06	Truss Type Attic Girder	Qty 1	Ply 2	Job Reference (optional)	T32352942
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:18
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Page: 1



Scale = 1:89.5

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-1-9,0-1-8], [8:0-1-9,0-1-8], [10:0-4-0,0-4-8], [22:0-2-8,0-3-0], [26:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-7-8	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.15	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.22	19	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.05	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.14	16-29	>999	360	Weight: 584 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
 - BOT CHORD 2x4 SP No.2
 - WEBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP No.2
- BRACING**
- TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
 - BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
- JOINTS**
- 1 Brace at Jt(s): 5, 7, 33, 34, 35, 1, 11
- REACTIONS**
- (size) 13=0-5-8, 32=0-3-8
 - Max Horiz 32=331 (LC 6)
 - Max Grav 13=2503 (LC 15), 32=2378 (LC 14)
- FORCES**
- (lb) - Maximum Compression/Maximum Tension
 - TOP CHORD 1-3=-2776/0, 3-4=-1962/0, 4-5=-792/0, 5-6=-619/50, 6-7=-633/49, 7-8=-804/0, 8-9=-1956/0, 9-11=-2841/0, 11-12=0/87, 1-32=-2309/0, 11-13=-2434/0
 - BOT CHORD 31-32=-201/385, 30-31=0/2271, 28-30=0/3488, 24-28=0/4319, 20-24=0/4816, 18-20=0/3223, 15-18=0/3223, 14-15=0/2065, 13-14=0/231, 27-29=-76/231, 25-27=-1432/0, 23-25=-3208/0, 21-23=-3208/0, 19-21=-2678/0, 17-19=-2678/0, 16-17=-99/206

- WEBS**
- 2-31=-389/1, 2-30=-269/201, 29-30=0/962, 3-29=0/1094, 15-16=0/970, 9-16=0/1117, 10-15=-299/162, 10-14=-320/11, 4-33=-1856/0, 33-35=-1319/0, 34-35=-1319/0, 8-34=-1829/0, 5-33=0/425, 7-34=0/415, 6-35=0/101, 6-34=-672/36, 6-33=-693/38, 1-31=0/1938, 11-14=0/1927, 27-28=0/439, 25-26=-3/85, 23-24=-306/0, 21-22=-56/29, 19-20=290/0, 17-18=-260/70, 15-17=-1682/0, 17-20=0/1421, 20-21=-462/0, 21-24=-30/242, 24-25=0/749, 25-28=-1245/0, 27-30=-1730/0

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x4 MT20 unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
 - All bearings are assumed to be SP No.2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- 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:

December 14, 2023

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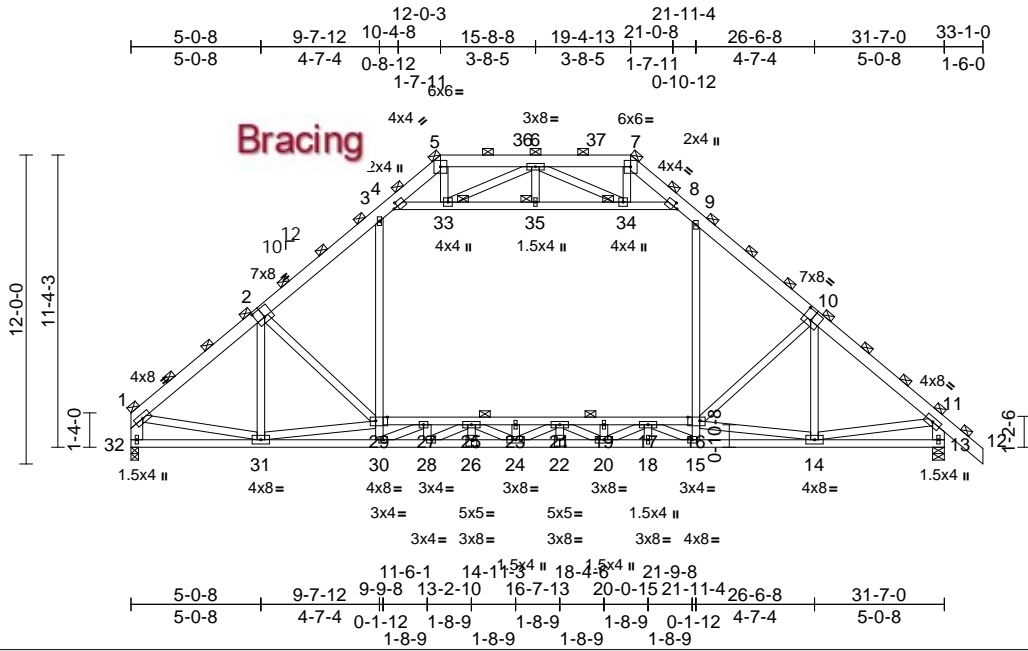
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H07	Truss Type Attic Girder	Qty 1	Ply 2	Job Reference (optional)	T32352943
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:19
ID:4E5QMtv1t?Rz9ohMrVP0SjyOFmd-RfC?PsB70Hq3NSgPqnL8w3uTxGKWrCDoiJ74zJC?f

Page: 1



Scale = 1:89.5

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [16:0-5-8,Edge], [22:0-2-8,0-3-0], [26:0-2-8,0-3-0], [29:0-5-8,Edge]

Loading	(psf)	Spacing	2-7-8	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.08	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.16	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.06	16-29	>999	360	Weight: 607 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 32-1,13-11:2x6 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 7, 1, 11, 33, 34, 35

REACTIONS (size) 13=0-5-8, 32=0-3-8
Max Horiz 32=331 (LC 6)
Max Grav 13=2534 (LC 15), 32=2400 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-3023/0, 3-4=-2005/0, 4-5=-640/69, 5-6=-427/78, 6-7=-400/86, 7-8=-627/73, 8-9=-2034/0, 9-11=-3056/0, 11-12=0/87, 1-32=-2330/0, 11-13=-2463/0
BOT CHORD 31-32=-221/403, 30-31=-568/1080, 28-30=0/2300, 24-28=0/3082, 20-24=0/3514, 18-20=0/2202, 15-18=0/2202, 14-15=-289/1215, 13-14=0/202, 27-29=0/2525, 25-27=-151/812, 23-25=-1730/0, 21-23=-1730/0, 19-21=-1227/65, 17-19=-1227/65, 16-17=0/2435

WEBS
2-31=-695/0, 29-30=0/1175, 3-29=0/1338, 15-16=0/1121, 9-16=0/1337, 10-14=-641/0, 4-33=-2016/0, 33-35=-1645/0, 34-35=-1645/0, 8-34=-2073/0, 1-31=0/1939, 11-14=0/1946, 5-33=0/302, 7-34=0/323, 6-35=0/54, 6-33=-511/31, 6-34=-539/23, 17-18=-138/0, 19-20=-299/0, 21-22=-56/25, 23-24=-311/0, 25-26=0/73, 27-28=0/505, 27-30=-2258/0, 25-28=-1235/0, 24-25=0/843, 21-24=-124/309, 20-21=-472/108, 17-20=0/1405, 15-17=-2107/0, 29-31=0/2207, 2-29=-125/378, 14-16=0/2185, 10-16=-176/314

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web 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=32ft; eave=4ft; Cat. II; Exp B; Enclosed; 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34; Wall dead load (5.0psf) on member (s).3-29, 9-16
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 25-27, 23-25, 21-23, 19-21, 17-19, 16-17
11) All bearings are assumed to be SP No.2 .
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Attic room checked for L/360 deflection.

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:

December 14,2023

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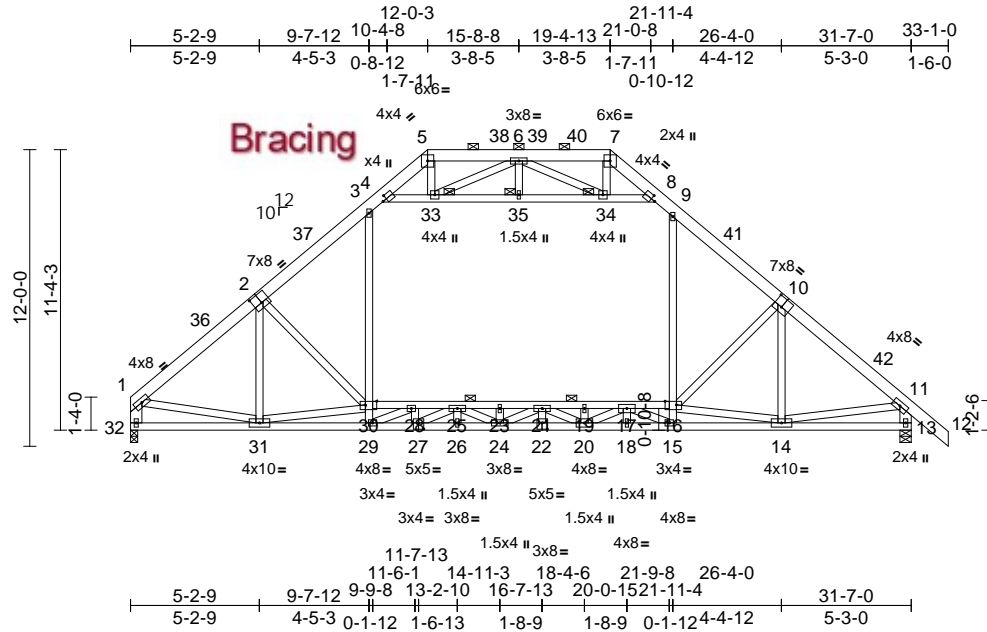
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H08	Truss Type Attic	Qty 5	Ply 1	Job Reference (optional)	T32352944
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:20
ID:LQqXl6RGxKvSWltqGEVoxCyOG7B-RfC?Psb70Hq3NSgPqnL8w3uTxbGKwRCDoi7J4zJC7f

Page: 1



Scale = 1:93.2

Plate Offsets (X, Y): [2:0-4-0,0-4-8], [4:0-2-1,0-2-0], [8:0-2-1,0-2-0], [10:0-4-0,0-4-8], [16:0-5-8,Edge], [22:0-2-8,0-3-0], [27:0-2-8,0-3-0], [30:0-5-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.13	21-23	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.24	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.09	16-30	>999	360		Weight: 304 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 13-11,32-1:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 33, 34, 35

REACTIONS (size) 13=0-5-8, 32=0-3-8
Max Horiz 32=253 (LC 10)
Max Grav 13=1911 (LC 19), 32=1809 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2273/0, 3-4=-1552/0, 4-5=-579/47, 5-6=-407/52, 6-7=-390/58, 7-8=-569/50, 8-9=-1574/0, 9-11=-2300/0, 11-12=0/66, 11-13=-1851/0, 1-32=-1750/0
BOT CHORD 31-32=-138/350, 29-31=-455/787, 26-29=0/2322, 24-26=0/2322, 20-24=0/2647, 18-20=0/1647, 15-18=0/1647, 14-15=-238/898, 13-14=0/195, 28-30=0/1935, 25-28=-122/581, 23-25=-1303/0, 21-23=-1303/0, 19-21=-922/51, 17-19=-922/51, 16-17=0/1861

WEBS
29-30=0/892, 3-30=0/948, 15-16=0/854, 9-16=0/947, 4-33=-1444/0, 33-35=-1124/0, 34-35=-1124/0, 8-34=-1483/0, 2-31=-521/0, 10-14=-485/0, 27-28=0/403, 25-26=0/52, 23-24=-231/0, 21-22=42/20, 19-20=-227/0, 17-18=-103/0, 15-17=-1609/0, 17-20=0/1068, 20-21=-360/79, 21-24=-96/231, 24-25=0/630, 25-27=-894/0, 28-29=-1728/0, 5-33=-1/276, 7-34=0/290, 6-35=0/77, 6-33=-425/19, 6-34=-442/16, 11-14=0/1425, 1-31=0/1407, 14-16=0/1666, 10-16=-134/252, 30-31=0/1694, 2-30=95/296

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-4-12 to 3-6-10, Interior (1) 3-6-10 to 12-2-3, Exterior(2R) 12-2-3 to 16-7-13, Interior (1) 16-7-13 to 19-6-13, Exterior(2R) 19-6-13 to 24-0-6, Interior (1) 24-0-6 to 33-3-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-33, 33-35, 34-35, 8-34

8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-30, 25-28, 23-25, 21-23, 19-21, 17-19, 16-17
9) All bearings are assumed to be SP No.2.
10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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:

December 14, 2023

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

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

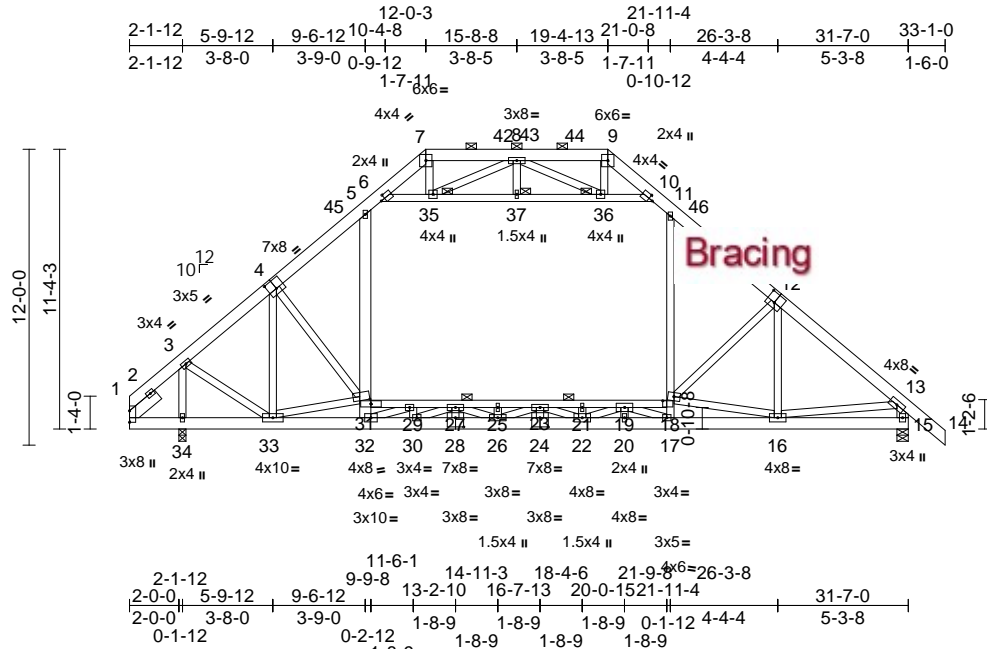
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H09	Truss Type Attic	Qty 7	Ply 1	Job Reference (optional) T32352945
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:20
ID:MFSH0v8PczFCHdguDmq_ifyOGQx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRCd0i7J4zJC?f

Page: 1



Scale = 1:93.5

Plate Offsets (X, Y): [4:0-4-0,0-4-8], [6:0-2-1,0-2-0], [10:0-2-1,0-2-0], [12:0-4-0,0-4-8], [18:0-5-8,0-2-0], [24:0-4-0,0-4-8], [28:0-4-0,0-4-8], [31:0-0-2,0-2-6]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.10	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.18	21-23	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.02	15	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Attic	-0.06	18-31	>999	360		Weight: 337 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 31-18:2x4 SP No.2
WEBS 2x4 SP No.2 *Except* 5-32,15-13:2x6 SP No.2
SLIDER Left 2x6 SP No.2 -- 1-6-0
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.
JOINTS 1 Brace at Jt(s): 35, 36, 37

REACTIONS (size) 15=0-5-8, 34=0-3-8
Max Horiz 34=236 (LC 11)
Max Grav 15=1812 (LC 19), 34=1943 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 7-8=-318/89, 8-9=-338/88, 1-3=-50/113, 3-5=-2051/0, 5-6=-1406/0, 6-7=-490/83, 9-10=-498/82, 10-11=-1402/0, 11-13=-2110/0, 13-14=0/66, 13-15=-1732/0
BOT CHORD 1-34=-3/44, 33-34=-218/234, 32-33=-672/343, 30-32=-161/869, 26-30=0/1679, 22-26=0/2404, 20-22=0/1814, 17-20=0/1814, 16-17=0/1257, 15-16=0/281, 29-31=0/2202, 27-29=0/1161, 25-27=-970/0, 23-25=-970/0, 21-23=-945/0, 19-21=-945/0, 18-19=-221/918

WEBS
31-32=0/759, 5-31=0/908, 17-18=0/624, 11-18=0/945, 6-35=-1364/0, 35-37=-1118/0, 36-37=-1118/0, 10-36=-1331/0, 3-34=-1746/0, 4-33=-1212/0, 12-16=-371/1, 3-33=0/1254, 7-35=0/232, 9-36=0/215, 8-37=0/40, 8-36=-358/32, 8-35=-391/31, 29-30=0/399, 27-28=-25/29, 25-26=-203/0, 23-24=-65/7, 21-22=-185/0, 19-20=-136/0, 17-19=-989/0, 19-22=0/889, 22-23=-210/229, 23-26=-263/98, 26-27=0/896, 27-30=-1126/0, 29-32=-1243/0, 13-16=0/1251, 16-18=-75/841, 12-18=-203/149, 31-33=0/1607, 4-31=0/785

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=32ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-0 to 3-3-14, Interior (1) 3-3-14 to 12-2-3, Exterior(2R) 12-2-3 to 15-4-2, Interior (1) 15-4-2 to 19-6-13, Exterior(2R) 19-6-13 to 22-8-11, Interior (1) 22-8-11 to 33-3-0 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) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

7) Ceiling dead load (5.0 psf) on member(s). 6-35, 35-37, 36-37, 10-36, 5-6, 10-11; Wall dead load (5.0psf) on member(s).5-31, 11-18
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 29-31, 27-29, 25-27, 23-25, 21-23, 19-21, 18-19
9) All bearings are assumed to be SP No.2 .
10) 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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.
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:

December 14,2023

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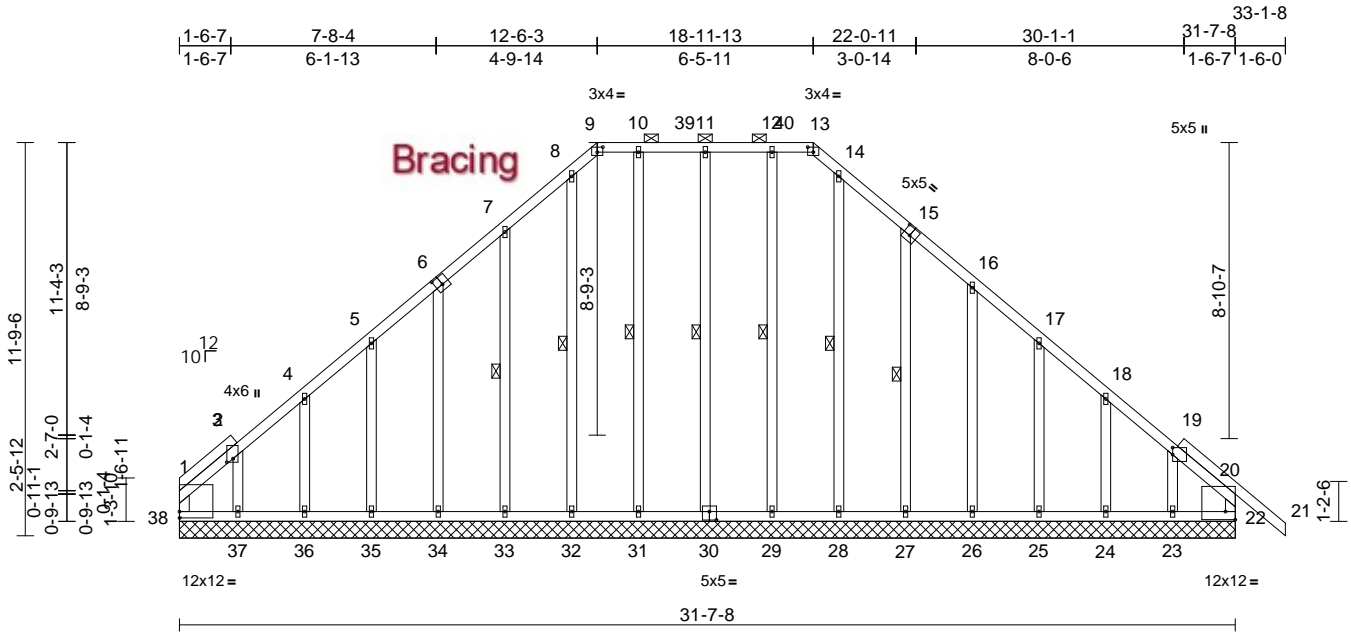
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H10	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32352946
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 9.04 S 8.73 Nov 16 2023 Print: 8.730 S Nov 16 2023 MiTek Industries, Inc. Thu Dec 14 11:55:34
ID:7yH0K0UPsbO3iOOmfy2d24yOGeh-TXJwQBDZO2rJXs6NkrvehbnOfZiid0fYyJc3my9EST

Page: 1



Scale = 1:69

Plate Offsets (X, Y): [2:0-1-5,0-2-4], [6:0-2-8,0-3-0], [9:0-2-0,0-1-13], [13:0-2-0,0-1-13], [15:0-2-8,0-3-0], [19:0-2-8,Edge], [22:Edge,0-2-15], [30:0-2-8,0-3-0], [38:Edge,0-2-5]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 272 lb	FT = 20%

LUMBER

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

BRACING

- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-13.
- BOT CHORD Rigid ceiling directly applied.
- WEBS 1 Row at midpt 11-30, 12-29, 14-28, 15-27, 10-31, 8-32, 7-33

REACTIONS

- All bearings 31-7-8.
- (lb) - Max Horiz 38=249 (LC 10)
- Max Uplift All uplift 100 (lb) or less at joint(s) 22, 23, 24, 25, 26, 27, 30, 33, 34, 35, 36, 37 except 38=136 (LC 10)
- Max Grav All reactions 250 (lb) or less at joint (s) 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38

FORCES

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=32ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-3-11, Exterior(2N) 3-3-11 to 12-6-3, Corner(3R) 12-6-3 to 15-9-0, Exterior(2N) 15-9-0 to 18-11-13, Corner(3R) 18-11-13 to 21-11-9, Exterior(2N) 21-11-9 to 33-1-8 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

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 22, 30, 27, 26, 25, 24, 23, 33, 34, 35, 36, 37 except (j=lb) 38=136.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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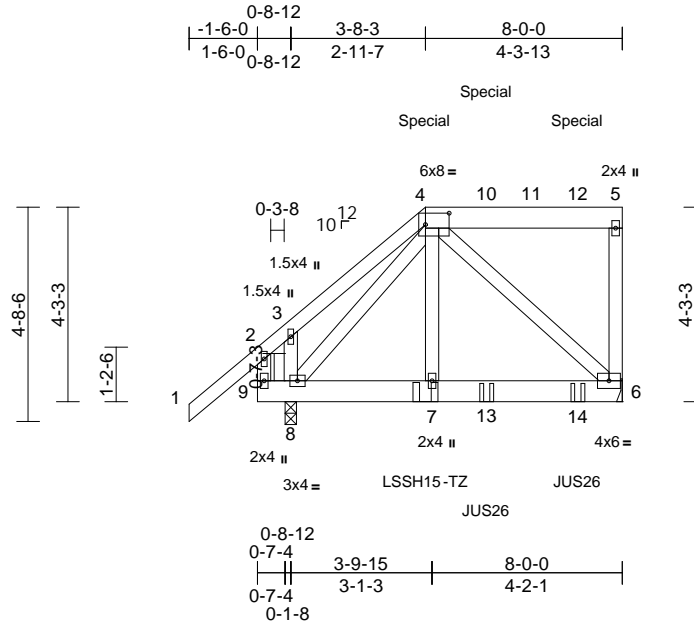
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H11	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T32352947
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:22
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Page: 1



Scale = 1:50.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.01	6-7	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.02	6-7	>999	180	
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	6	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 131 lb FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x6 SP No.2
 BOT CHORD 2x6 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) 6= Mechanical, 8=0-3-0
 Max Horiz 8=131 (LC 7)
 Max Uplift 6=-116 (LC 5), 8=-124 (LC 8)
 Max Grav 6=1267 (LC 1), 8=984 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/63, 2-3=-79/35, 3-4=-66/103, 4-5=-63/39, 5-6=-447/0, 2-9=-119/31
 BOT CHORD 8-9=-33/109, 7-8=-124/573, 6-7=-128/598
 WEBS 4-7=-133/706, 4-6=-764/140, 4-8=-963/116, 3-8=-108/69

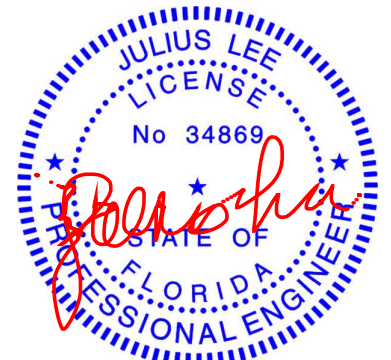
NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 6 and 124 lb uplift at joint 8.
- Use MiTek LSSH15-TZ (With 6-10d HDG nails into Girder & 7-10d x 1-1/2 HDG nails into Truss) or equivalent at 3-8-3 from the left end to connect truss(es) to front face of bottom chord, skewed 16.7 deg.to the left, sloping 0.0 deg. down.
- Use MiTek JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-0-5 from the left end to 7-0-5 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 233 lb down and 104 lb up at 3-8-3, and 358 lb down at 5-0-5, and 359 lb down at 7-0-5 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)
 Vert: 1-2=-60, 2-4=-60, 4-5=-60, 6-9=-20
 Concentrated Loads (lb)
 Vert: 4=-212 (F), 7=-225 (F), 10=-171 (F), 12=-172 (F), 13=-377 (F), 14=-379 (F)



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

December 14,2023

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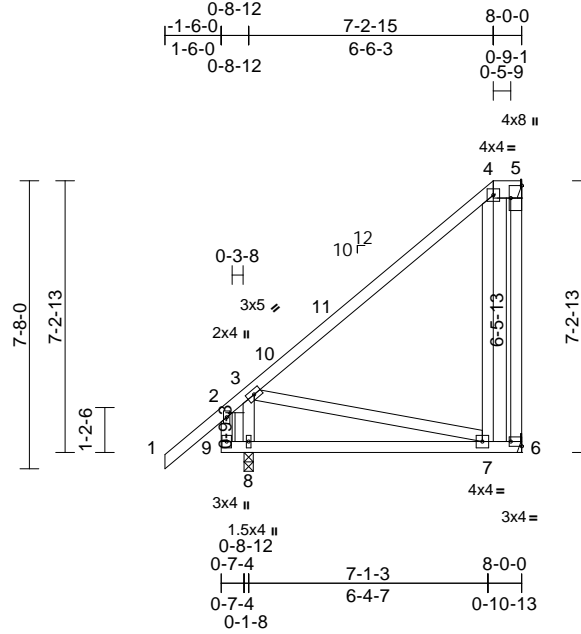
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss H12	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T32352948
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:23
ID:kdUMGEF1F8L_yG3DIZNWhypG5X-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	0.05	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.10	7-8	>881	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 63 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x6 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) 5= Mechanical, 6= Mechanical,
 8=0-3-0
 Max Horiz 8=223 (LC 11)
 Max Uplift 5=-23 (LC 12), 6=-144 (LC 9),
 8=-43 (LC 12)
 Max Grav 5=164 (LC 3), 6=214 (LC 17),
 8=452 (LC 23)

FORCES (lb) - Maximum Compression/Maximum Tension

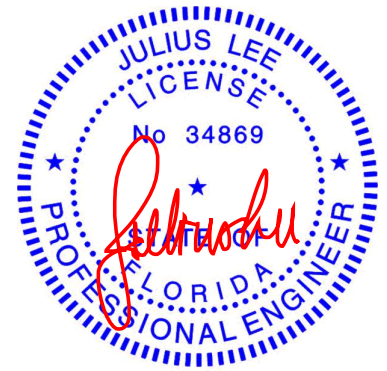
TOP CHORD 1-2=0/63, 2-3=-151/0, 3-4=-234/142,
 4-5=-133/122, 5-6=0/0, 2-9=-144/51
 BOT CHORD 8-9=-41/164, 7-8=-499/436, 6-7=-95/110
 WEBS 3-8=-346/257, 4-7=-153/304, 3-7=-338/421

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-2-15, Exterior(2E) 7-2-15 to 7-10-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 8 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5, 144 lb uplift at joint 6 and 43 lb uplift at joint 8.
- 10) 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.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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:

December 14, 2023

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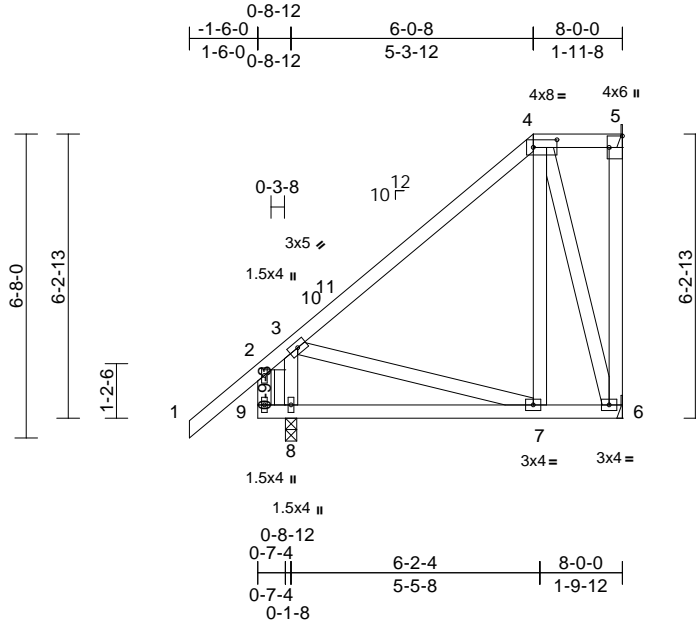
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss H13	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional)	T32352949
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:23
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Page: 1



Scale = 1:50.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.21	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 66 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) 5= Mechanical, 6= Mechanical,
8=0-3-0
Max Horiz 8=195 (LC 9)
Max Uplift 5=-13 (LC 9), 6=-53 (LC 9), 8=-46 (LC 12)
Max Grav 5=54 (LC 1), 6=236 (LC 17), 8=452 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-44/83, 3-4=-228/61, 4-5=-88/95, 5-6=0/0, 2-9=-109/113
BOT CHORD 8-9=-15/16, 7-8=-395/223, 6-7=-122/160
WEBS 4-7=-30/192, 4-6=-313/209, 3-8=-381/143, 3-7=-69/284

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-0-8, Exterior(2E) 6-0-8 to 7-10-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 5, 53 lb uplift at joint 6 and 46 lb uplift at joint 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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:

December 14, 2023

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

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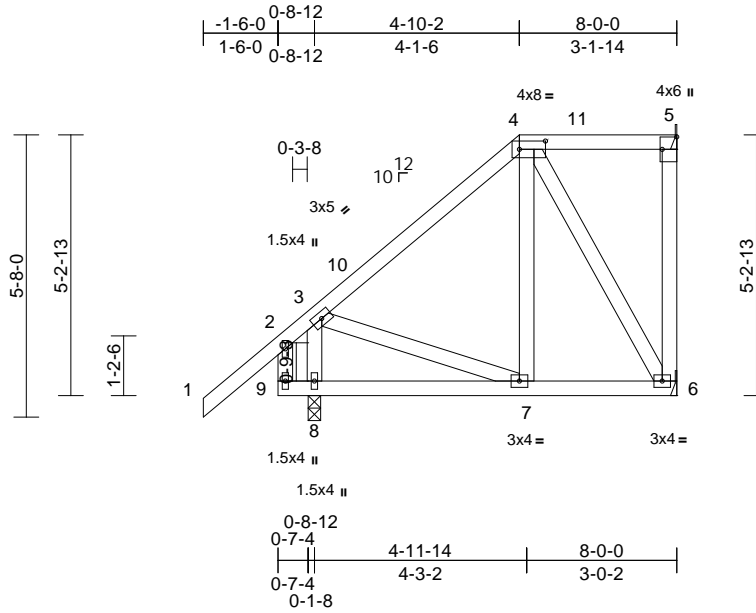
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss H14	Truss Type Half Hip	Qty 1	Ply 1	Job Reference (optional) T32352950
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:24
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Page: 1



Scale = 1:46.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.01	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 60 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) 5= Mechanical, 8=0-3-0
Max Horiz 8=165 (LC 11)
Max Uplift 5=-21 (LC 9), 6=-28 (LC 9), 8=-50 (LC 12)
Max Grav 5=90 (LC 1), 6=189 (LC 17), 8=452 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/63, 2-3=-14/66, 3-4=-216/63, 4-5=-74/80, 5-6=0/0, 2-9=-67/89
BOT CHORD 8-9=-15/16, 7-8=-340/183, 6-7=-137/182
WEBS 4-7=-18/138, 4-6=-238/165, 3-8=-325/62, 3-7=-5/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-10-2, Exterior(2E) 4-10-2 to 7-10-4 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5, 28 lb uplift at joint 6 and 50 lb uplift at joint 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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:

December 14, 2023

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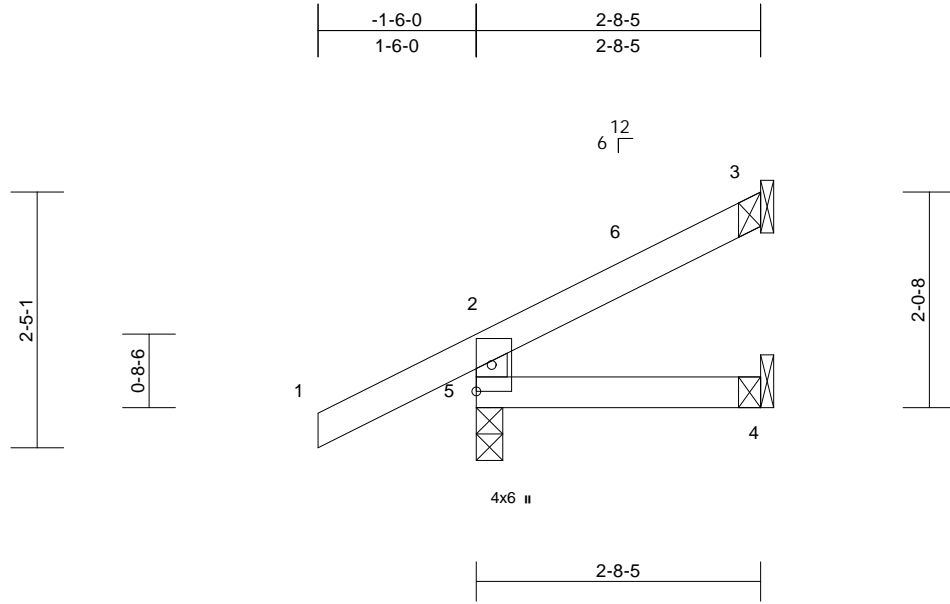
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J01	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352951
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:24
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Page: 1



Scale = 1:21.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	4-5	>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-MR							Weight: 12 lb	FT = 20%

LUMBER

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 5 and 14 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz 5=69 (LC 12)
Max Uplift 3=-14 (LC 12), 5=-40 (LC 12)
Max Grav 3=51 (LC 17), 4=43 (LC 3), 5=231 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-198/140, 1-2=0/44, 2-3=-44/24
BOT CHORD 4-5=0/0

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-7-9 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



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

December 14,2023

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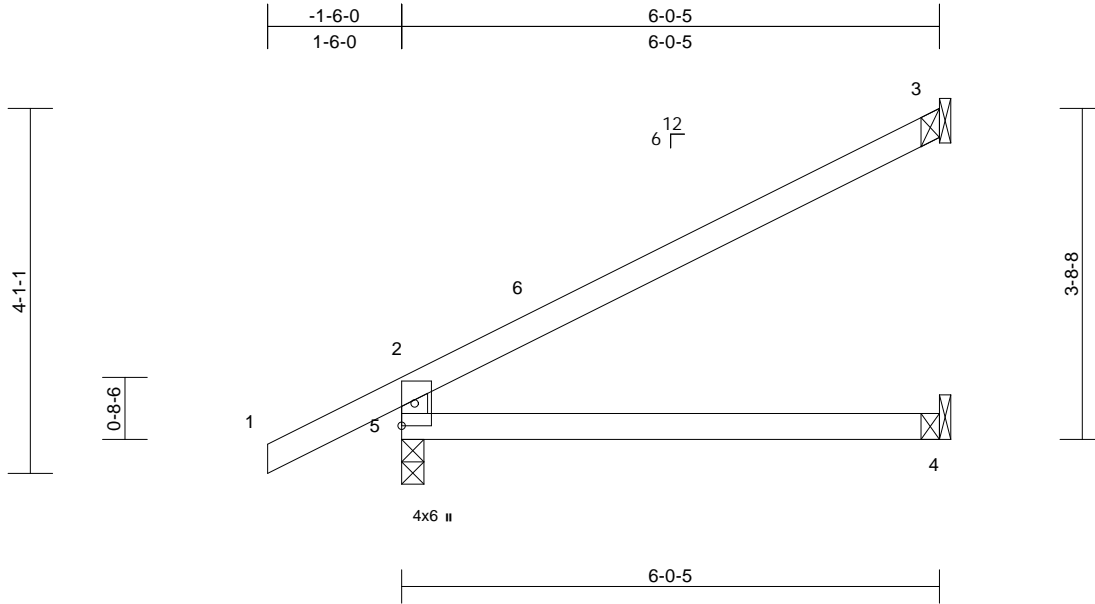
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32352952
1023-067	J02	Jack-Open	1	1		

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:24
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Page: 1



Scale = 1:25.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	-0.05	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.11	4-5	>634	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 22 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) 3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz 5=109 (LC 12)
Max Uplift 3=-42 (LC 12), 5=-23 (LC 12)
Max Grav 3=155 (LC 1), 4=107 (LC 3), 5=345 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

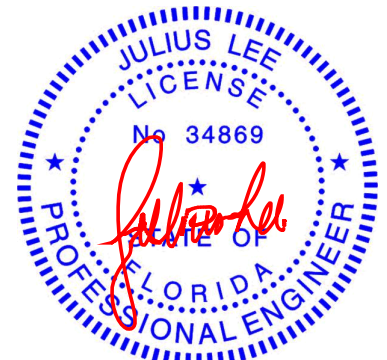
TOP CHORD 2-5=-293/168, 1-2=0/44, 2-3=-94/54
BOT CHORD 4-5=0/0

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-11-9 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 5 and 42 lb uplift at joint 3.
- 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.

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:

December 14, 2023

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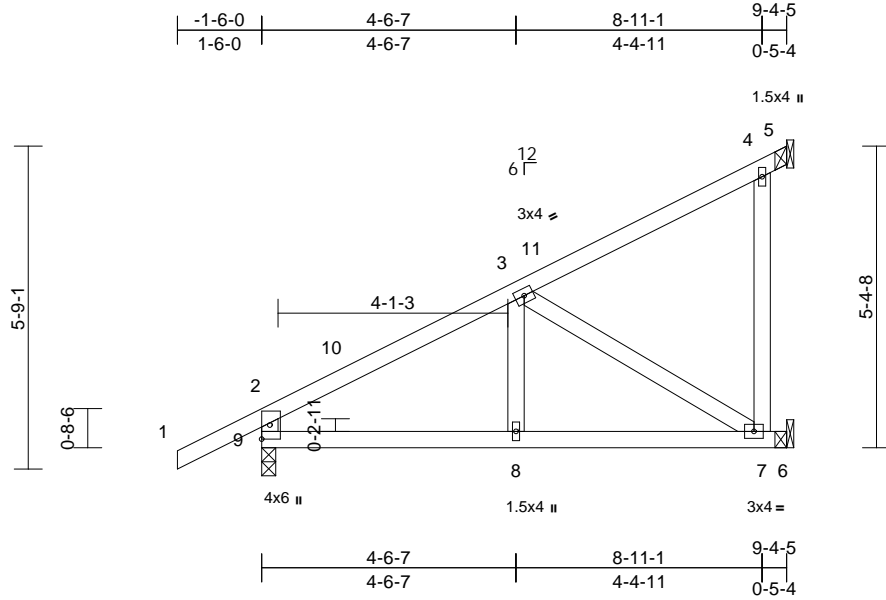
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J03	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352953
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:25
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Page: 1



Scale = 1:41.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 50 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) 5= Mechanical, 6= Mechanical, 9=0-3-0
Max Horiz 9=149 (LC 12)
Max Uplift 6=61 (LC 12), 9=11 (LC 12)
Max Grav 5=160 (LC 3), 6=248 (LC 1), 9=474 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-9=-421/123, 1-2=0/44, 2-3=-457/0, 3-4=-73/34, 4-5=0/71
BOT CHORD 8-9=-135/350, 7-8=-135/350, 6-7=0/0
WEBS 4-7=-14/130, 3-8=0/202, 3-7=-409/157

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 9-3-9 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 9 SP No.2 .

- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 9 and 61 lb uplift at joint 6.
- 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.

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:

December 14, 2023

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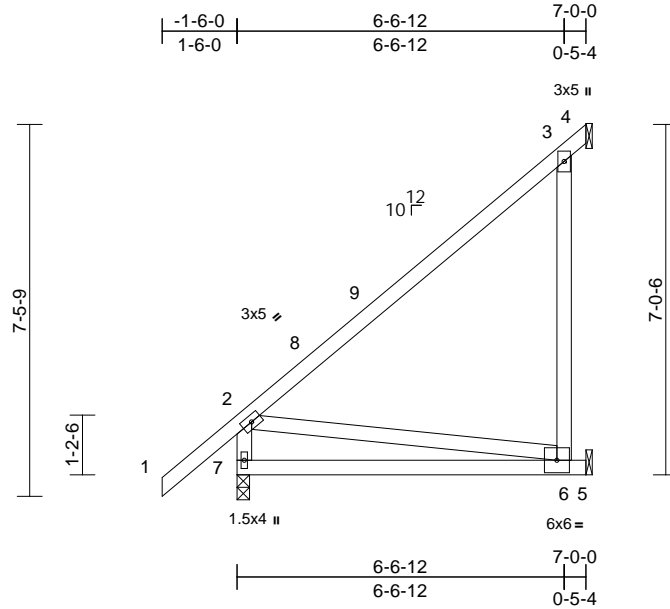
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J04	Truss Type Jack-Open	Qty 3	Ply 1	Job Reference (optional) T32352954
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:25
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.10	6-7	>807	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.21	6-7	>392	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 47 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) 4= Mechanical, 5= Mechanical, 7=0-3-0
Max Horiz 7=205 (LC 12)
Max Uplift 4=-47 (LC 17), 5=-228 (LC 12)
Max Grav 4=245 (LC 3), 5=332 (LC 17), 7=382 (LC 1)

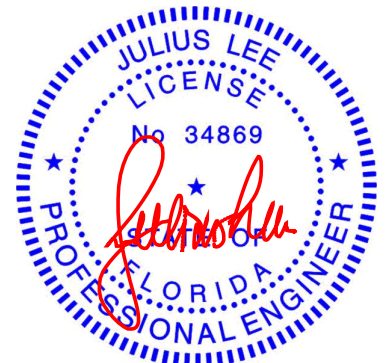
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-301/34, 1-2=0/63, 2-3=-215/110, 3-4=-42/180
BOT CHORD 6-7=-314/117, 5-6=0/0
WEBS 3-6=-270/537, 2-6=-119/318

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 7 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 4 and 228 lb uplift at joint 5.
 - 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.
- 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:

December 14, 2023

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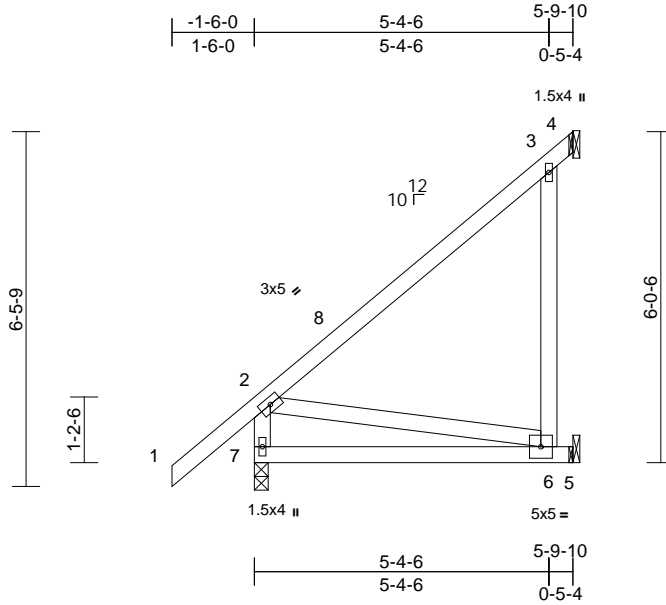
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J05	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352955
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:26
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.10	6-7	>696	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 39 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) 4= Mechanical, 5= Mechanical, 7=0-3-0
Max Horiz 7=181 (LC 12)
Max Uplift 4=6 (LC 17), 5=-145 (LC 12)
Max Grav 4=168 (LC 3), 5=238 (LC 17), 7=337 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-270/47, 1-2=0/63, 2-3=-190/96, 3-4=-26/112
BOT CHORD 6-7=-296/106, 5-6=0/0
WEBS 3-6=-191/406, 2-6=-108/301

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 5-8-14 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 7 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 4 and 145 lb uplift at joint 5.
 - 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.
- 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:

December 14, 2023

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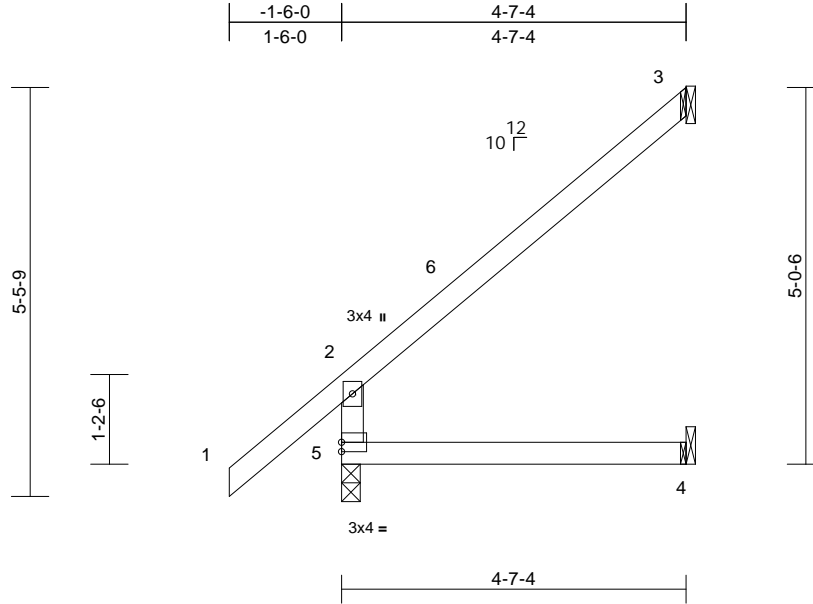
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J06	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352956
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:26
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Page: 1



Scale = 1:30.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	-0.05	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS						Weight: 20 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) 3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz 5=157 (LC 12)
Max Uplift 3=-61 (LC 12)
Max Grav 3=126 (LC 17), 4=82 (LC 3), 5=293 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

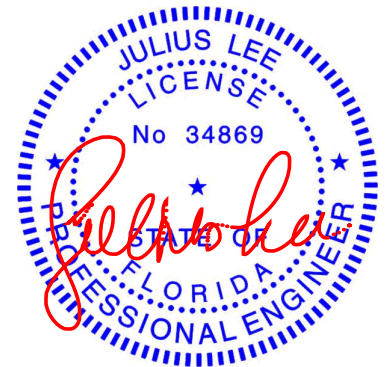
TOP CHORD 2-5=-251/106, 1-2=0/63, 2-3=-146/74
BOT CHORD 4-5=0/0

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-6-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 5 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 3.
- 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.

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:

December 14, 2023

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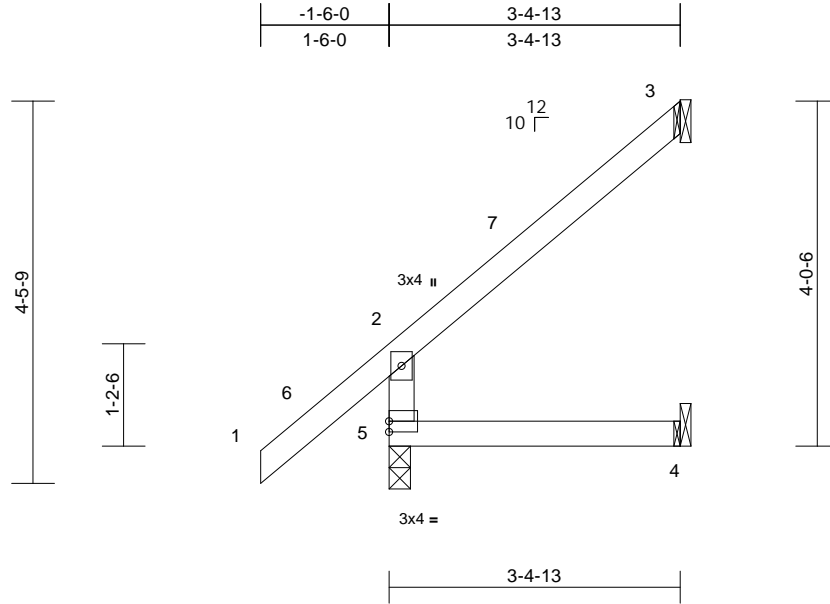
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J07	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352957
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:26
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	0.01	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR							Weight: 16 lb	FT = 20%

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

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz 5=133 (LC 12)
Max Uplift 3=-44 (LC 12)
Max Grav 3=86 (LC 17), 4=59 (LC 3), 5=252 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-217/115, 1-2=0/63, 2-3=-113/57
BOT CHORD 4-5=0/0

- 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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-4-1 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 5 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.



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

December 14,2023

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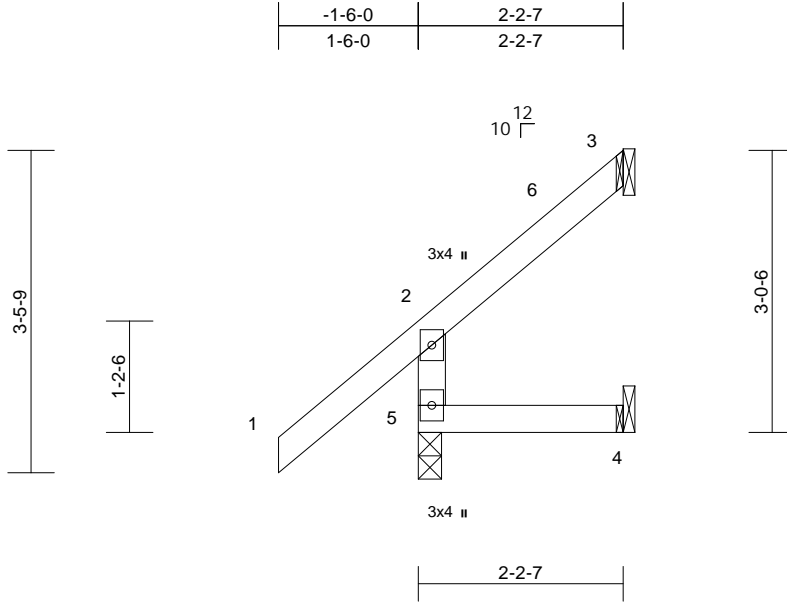
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J08	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352958
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:26
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	0.00	4-5	>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-MR							Weight: 12 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x4 SP No.2
 - BOT CHORD 2x4 SP No.2
 - WEBS 2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 2-2-7 oc purlins, except end verticals.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 3= Mechanical, 4= Mechanical, 5=0-3-0
- Max Horiz 5=109 (LC 12)
 - Max Uplift 3=-25 (LC 12), 4=-6 (LC 12), 5=-9 (LC 12)
 - Max Grav 3=41 (LC 17), 4=34 (LC 3), 5=219 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 2-5=-189/130, 1-2=0/63, 2-3=-72/42
 - BOT CHORD 4-5=0/0
- NOTES**
- 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; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-1-11 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

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:

December 14, 2023

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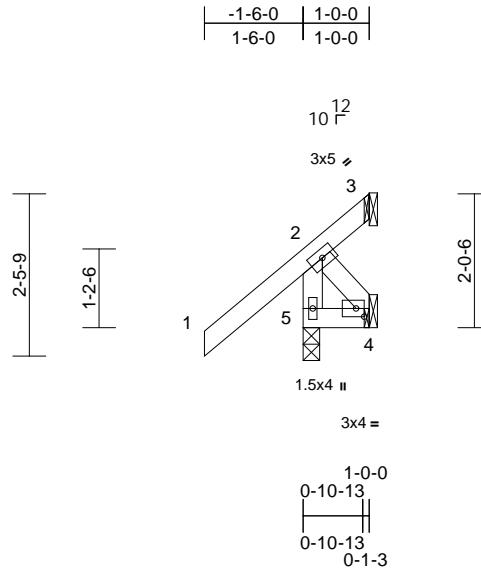
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss J09	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352959
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:27
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 9 lb	FT = 20%

LUMBER

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

- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 5, 61 lb uplift at joint 4 and 71 lb uplift at joint 3.

BRACING

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

LOAD CASE(S) Standard

REACTIONS

(size) 3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz 5=48 (LC 12)
Max Uplift 3=-71 (LC 1), 4=-61 (LC 12), 5=-48 (LC 12)
Max Grav 3=68 (LC 12), 4=32 (LC 10), 5=229 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-220/160, 1-2=0/63, 2-3=-78/104
BOT CHORD 4-5=-145/36
WEBS 2-4=-55/220

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFERS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFERS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



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

December 14, 2023

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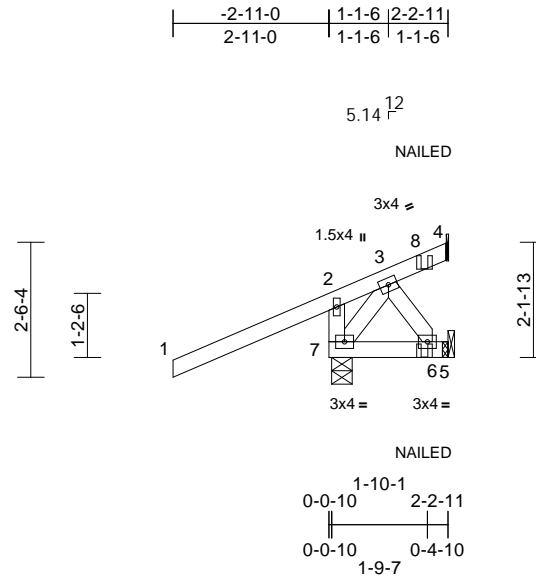
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J10	Truss Type Jack-Partial	Qty 1	Ply 1	Job Reference (optional) T32352960
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:27
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.00	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	0.00	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5= Mechanical, 7=0-4-9
Max Horiz 7=50 (LC 12)
Max Uplift 4=-29 (LC 12), 5=-148 (LC 23), 7=-116 (LC 12)
Max Grav 4=70 (LC 1), 5=95 (LC 30), 7=405 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-545/722, 1-2=0/72, 2-3=-142/289, 3-4=-51/25
BOT CHORD 6-7=-100/114, 5-6=0/0
WEBS 3-7=-434/173, 3-6=-221/194

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; Enclosed;
MWFRS (directional) and C-C Corner (3) -2-11-0 to 1-1-6, Exterior(2R) 1-1-6 to 2-2-7 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 7 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4, 148 lb uplift at joint 5 and 116 lb uplift at joint 7.
 - 8) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-7=-20



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

December 14, 2023

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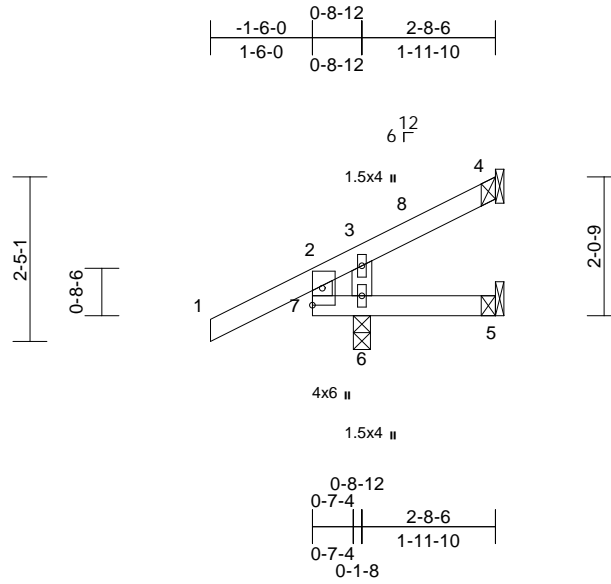
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J11	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352961
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:27
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz 6=69 (LC 12)
Max Uplift 4=-12 (LC 9), 5=-21 (LC 1), 6=-63 (LC 12)
Max Grav 4=21 (LC 17), 5=20 (LC 3), 6=302 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

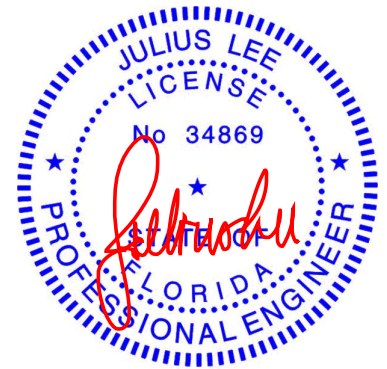
TOP CHORD 2-7=-90/59, 1-2=0/44, 2-3=-76/35, 3-4=-44/19
BOT CHORD 6-7=-32/125, 5-6=0/0
WEBS 3-6=-141/103

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-7-10 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 6 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 4, 21 lb uplift at joint 5 and 63 lb uplift at joint 6.

LOAD CASE(S) Standard



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

December 14,2023

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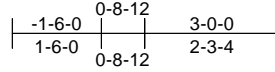
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J12	Truss Type Jack-Open	Qty 5	Ply 1	Job Reference (optional) T32352962
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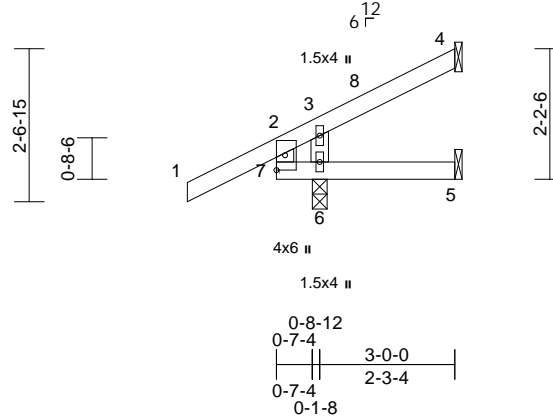
Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:28
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Special



Scale = 1:38.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	0.00	5-6	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	5-6	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.01	4	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
WEBS 2x4 SP No.2

BRACING

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

REACTIONS

(size) 4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz 6=73 (LC 12)
Max Uplift 4=-177 (LC 23), 5=-11 (LC 1), 6=-59 (LC 12)
Max Grav 4=103 (LC 28), 5=28 (LC 3), 6=303 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-7=-83/50, 1-2=0/44, 2-3=-89/41, 3-4=-46/21
BOT CHORD 6-7=-35/134, 5-6=0/0
WEBS 3-6=-153/119

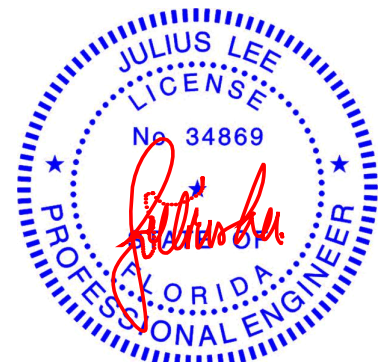
NOTES

- 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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: Joint 6 SP No.2.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 4, 11 lb uplift at joint 5 and 59 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 143 lb down and 207 lb up at 2-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-2=-60, 2-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 4=50 (B)



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

December 14, 2023

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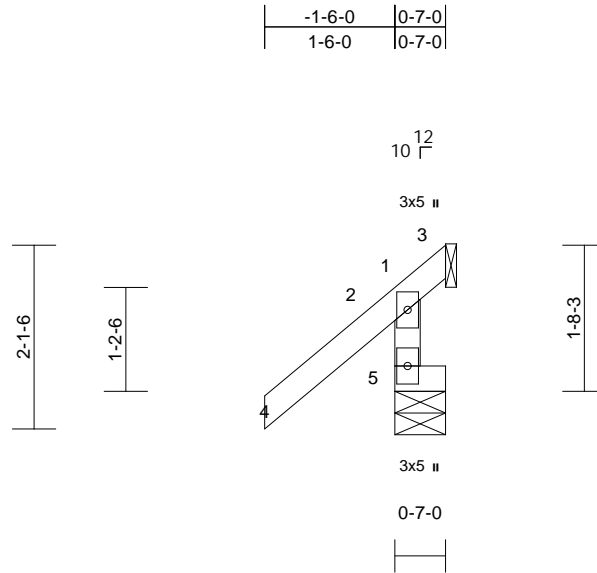
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J13	Truss Type Jack-Open Supported Gable	Qty 2	Ply 1	Job Reference (optional) T32352963
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:28
ID:lgF6teiMSW3BpS5E8iW7RvYpG2M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD0i7J4zJC?f

Page: 1



Scale = 1:26.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MR						Weight: 6 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 0-7-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4=0-7-0, 5=0-7-0
Max Horiz 5=13 (LC 12)
Max Uplift 3=-36 (LC 12), 4=-1 (LC 12), 5=-8 (LC 10)
Max Grav 3=24 (LC 10), 4=0 (LC 10), 5=30 (LC 12)

FORCES

(lb) - Maximum Compression/Maximum Tension

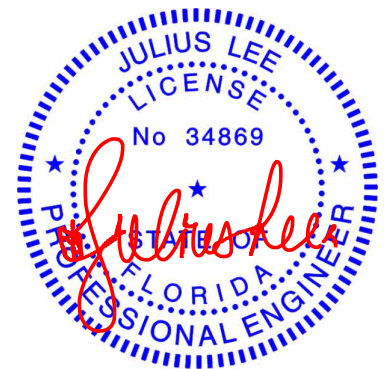
TOP CHORD 2-5=-115/37, 1-2=-3/0, 2-3=-190/64
BOT CHORD 4-5=0/1

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=2ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Corner(3E) 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) 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.
- 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) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 2-0-0 oc.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: , Joint 4 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 5, 1 lb uplift at joint 4 and 36 lb uplift at joint 3.

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:

December 14, 2023

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

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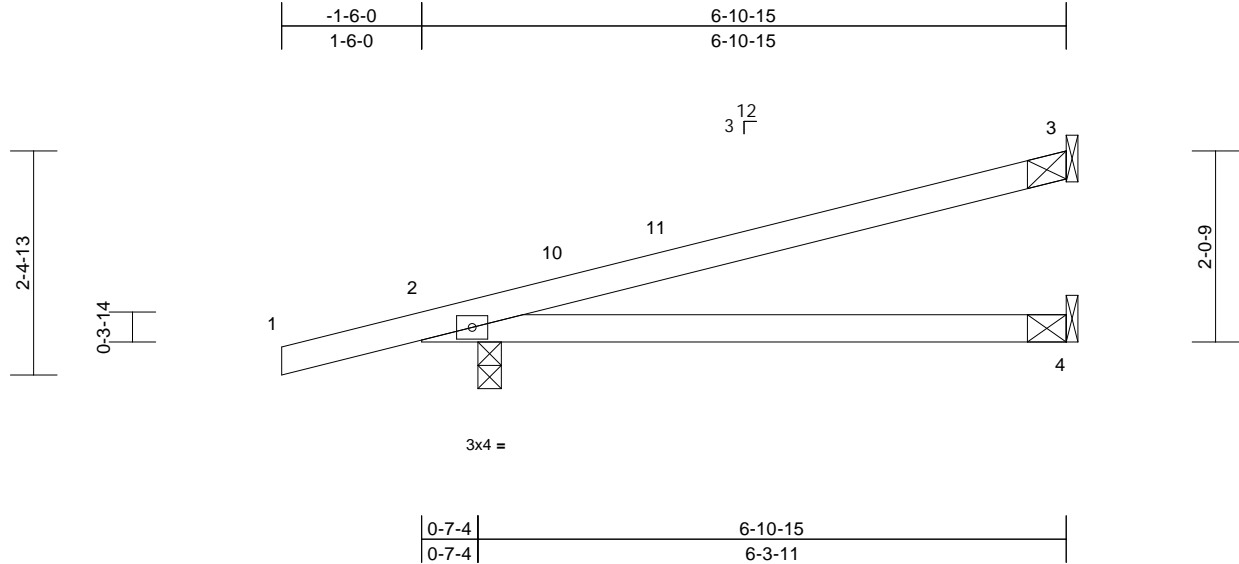
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J14	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352964
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:28
ID:KdzNSOqeXp9QqZQJ3Bsh5QyPGCW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.06	4-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.13	4-9	>639	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: 23 lb	FT = 20%

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

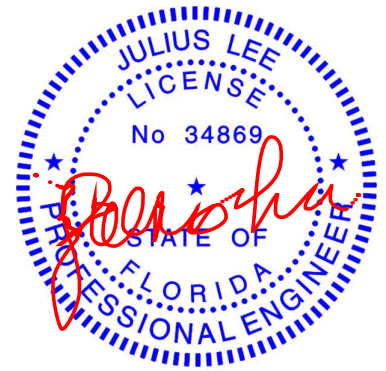
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 3= Mechanical, 4= Mechanical
Max Horiz 2=55 (LC 12)
Max Uplift 2=-39 (LC 12), 3=-26 (LC 12)
Max Grav 2=410 (LC 1), 3=160 (LC 1), 4=109 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-201/274
BOT CHORD 2-4=-274/230

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 3 and 39 lb uplift at joint 2.
 - 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.
- LOAD CASE(S)** Standard

- NOTES**
- 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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 6-10-3 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Bearings are assumed to be: , Joint 2 SP No.2 .
 - Refer to girder(s) for truss to truss connections.



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

December 14, 2023

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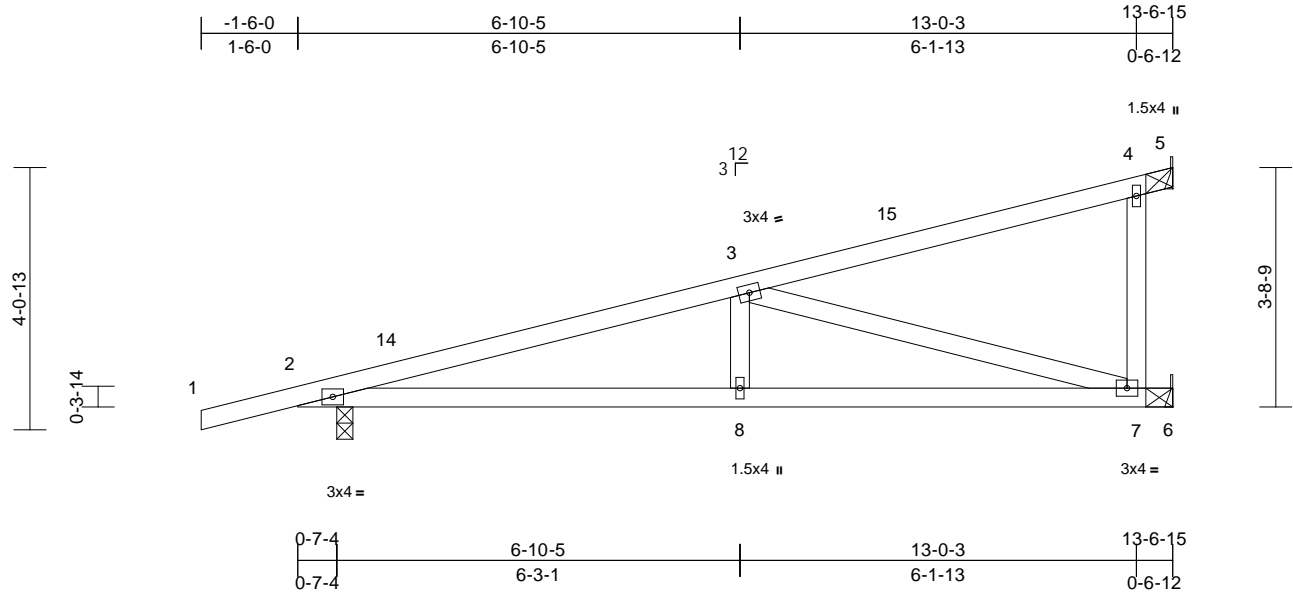
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J15	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional)	T32352965
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:29
ID:5_1hqZYedxb2PdP14PX_tyPGBb-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC7f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.21	7-8	>775	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 59 lb	FT = 20%

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

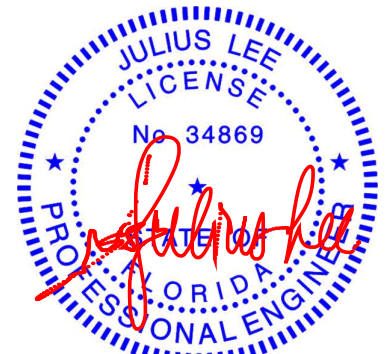
BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 5= Mechanical, 6= Mechanical
Max Horiz 2=95 (LC 12)
Max Uplift 2=-30 (LC 12), 6=-71 (LC 12)
Max Grav 2=665 (LC 1), 5=276 (LC 3), 6=319 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-1163/271, 3-4=-57/24, 4-5=0/67
BOT CHORD 2-8=-271/1090, 7-8=-200/1090, 6-7=0/0
WEBS 4-7=0/241, 3-8=0/281, 3-7=-1132/208

- 6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 6 and 30 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.
- LOAD CASE(S)** Standard

- 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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 13-6-3 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 5) Bearings are assumed to be: , Joint 2 SP No.2 .



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

December 14, 2023

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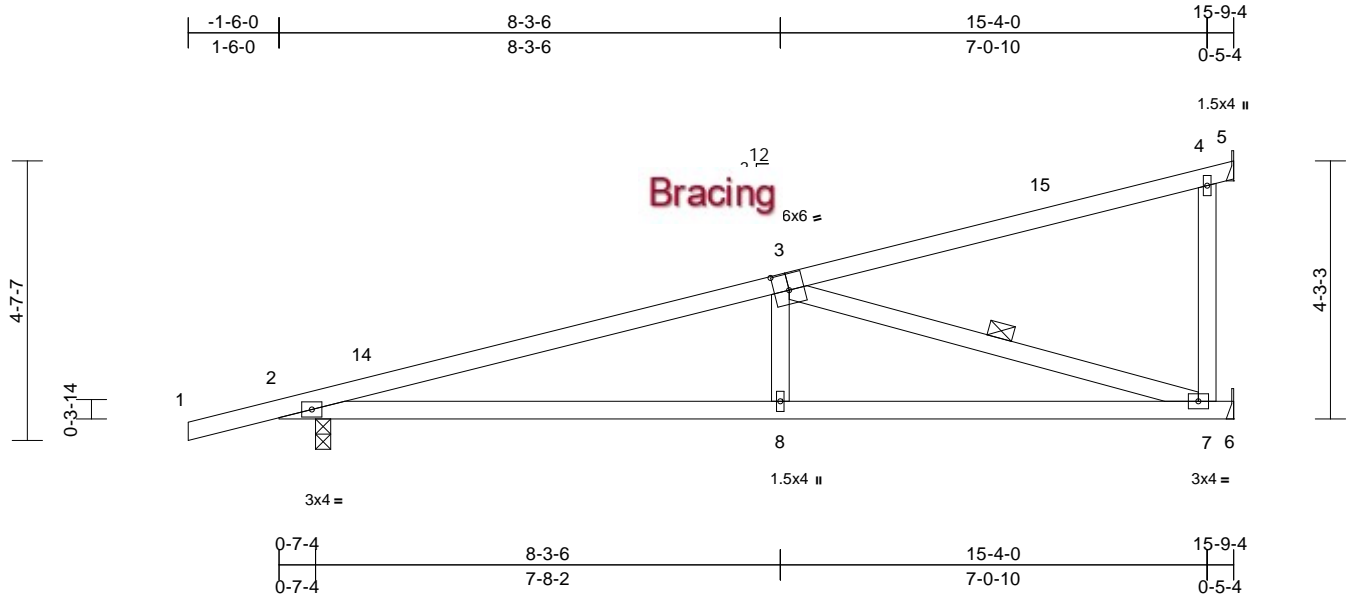
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J16	Truss Type Monopitch	Qty 2	Ply 1	Job Reference (optional)	T32352966
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:29
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Page: 1



Scale = 1:38.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.11	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.25	7-8	>758	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 69 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.
WEBS 1 Row at midpt 3-7

REACTIONS

(size) 2=0-3-0, 5= Mechanical, 6= Mechanical
Max Horiz 2=108 (LC 12)
Max Uplift 2=28 (LC 12), 6=119 (LC 12)
Max Grav 2=752 (LC 1), 5=378 (LC 3), 6=397 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-4=-1347/269, 4-5=0/91
BOT CHORD 2-8=-270/1259, 7-8=-152/1249, 6-7=0/0
WEBS 3-8=0/334, 4-7=0/340, 3-7=-1306/159

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 15-8-8 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 6 and 28 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.

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:

December 14, 2023

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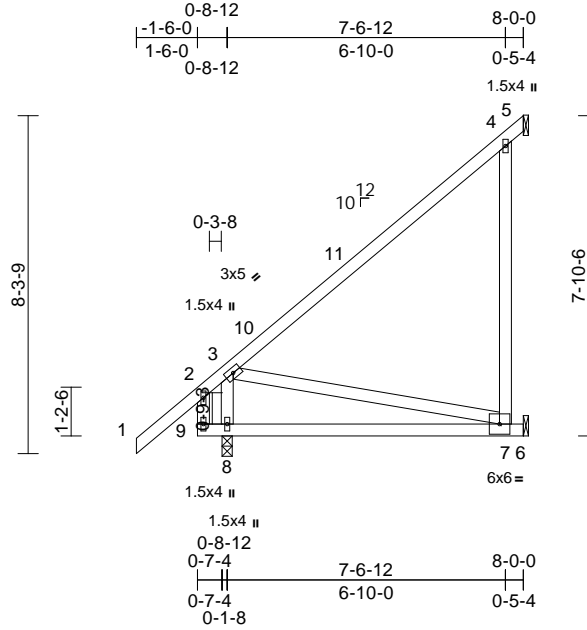
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J17	Truss Type Jack-Open	Qty 7	Ply 1	Job Reference (optional) T32352967
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:30
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Page: 1



Scale = 1:56.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.12	7-8	>716	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.23	7-8	>375	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 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) 5= Mechanical, 6= Mechanical, 8=0-3-0
Max Horiz 8=225 (LC 12)
Max Uplift 5=-26 (LC 17), 6=-218 (LC 12)
Max Grav 5=206 (LC 3), 6=324 (LC 17), 8=455 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-9=-126/101, 1-2=0/63, 2-3=-56/78, 3-4=-200/110, 4-5=-29/132
BOT CHORD 8-9=-15/16, 7-8=-328/125, 6-7=0/0
WEBS 3-8=-346/91, 4-7=-251/418, 3-7=-128/335

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 8 SP No.2 .
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 218 lb uplift at joint 6.
 - 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.
- 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:

December 14, 2023

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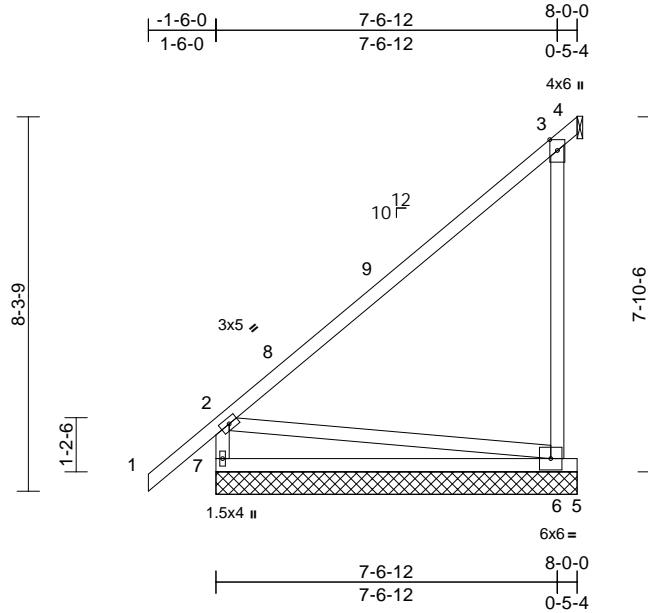
Job 1023-067	Truss J18	Truss Type Jack-Open	Qty 2	Ply 1	Job Reference (optional) T32352968
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 9.04 E 8.73 Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Thu Dec 14 11:56:31

Page: 1

ID: _nGcGdCe6wu?O9SMFbHVgSyPG3?-JUGTOhvJzZ0DsdzKaJR?Uce1cX2DUaG?fJd7azy9ES_



Scale = 1:51.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.16	6-7	>549	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 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 All bearings 8-0-0. except 4= Mechanical

(lb) - Max Horiz 7=225 (LC 12)
 Max Uplift All uplift 100 (lb) or less at joint(s) except 4=807 (LC 17), 5=586 (LC 3), 6=240 (LC 12)
 Max Grav All reactions 250 (lb) or less at joint (s) 5 except 4=323 (LC 12), 6=1505 (LC 17), 7=351 (LC 1)

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

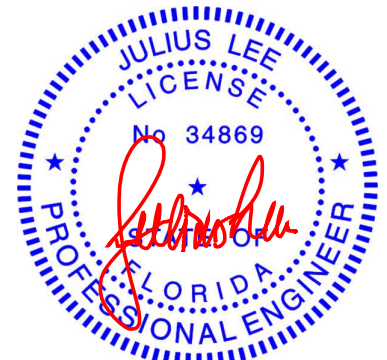
TOP CHORD 2-7=-294/11, 3-4=-529/482
 BOT CHORD 6-7=-328/125
 WEBS 3-6=-1102/1042, 2-6=-126/330

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 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 3-06-00 tall by 2-00-00 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 585 lb uplift at joint 5, 807 lb uplift at joint 4 and 240 lb uplift at joint 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.

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:

December 14, 2023

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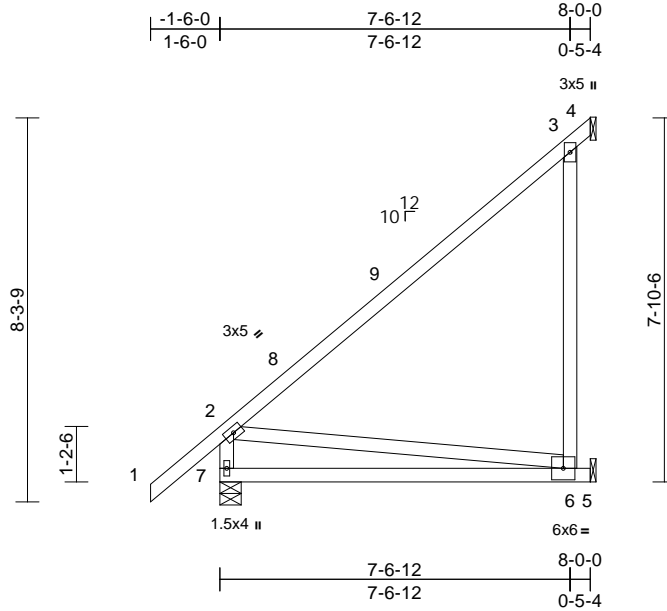
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss J19	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T32352969
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:30
ID:L0bwu9TRwgf1X8aXCgfAUyPG2f-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.15	6-7	>605	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.36	6-7	>262	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 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) 4= Mechanical, 5= Mechanical, 7=0-5-8
Max Horiz 7=225 (LC 12)
Max Uplift 4=-83 (LC 17), 5=-309 (LC 12)
Max Grav 4=324 (LC 3), 5=412 (LC 17), 7=421 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-7=-328/23, 1-2=0/63, 2-3=-226/129, 3-4=-65/238
BOT CHORD 6-7=-328/125, 5-6=0/0
WEBS 3-6=-341/642, 2-6=-126/330

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 7-11-4 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 5) Bearings are assumed to be: , Joint 7 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 4 and 309 lb uplift at joint 5.
- 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.

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:

December 14, 2023

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

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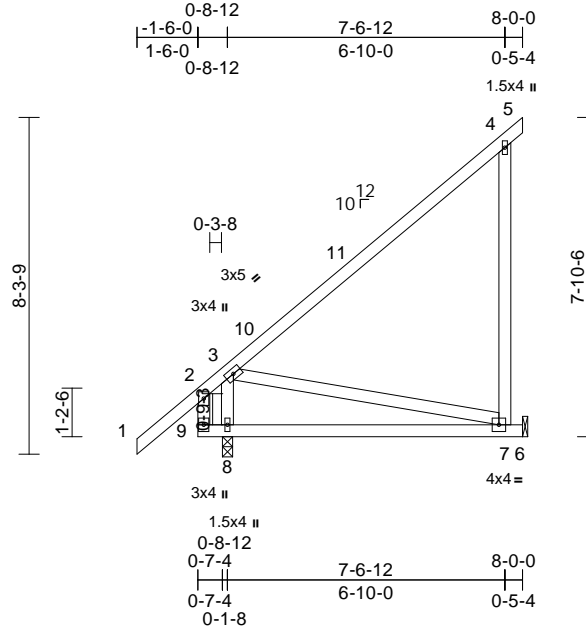
Job 1023-067	Truss J20	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T32352970
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:31

Page: 1

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Scale = 1:56.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.09	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.19	7-8	>457	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 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= Mechanical, 8=0-3-0
 Max Horiz 8=231 (LC 12)
 Max Uplift 6=-98 (LC 12)
 Max Grav 6=300 (LC 17), 8=455 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

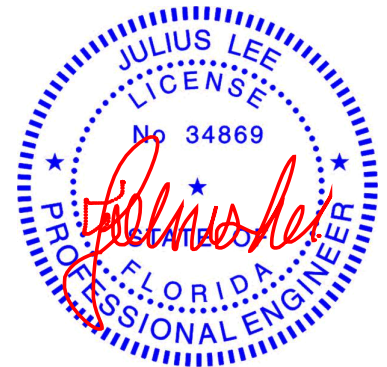
TOP CHORD 2-9=-231/44, 1-2=0/63, 2-3=-254/0,
 3-4=-186/95, 4-5=-17/0
 BOT CHORD 8-9=-59/212, 7-8=-403/330, 6-7=0/0
 WEBS 3-8=-311/180, 4-7=-204/203, 3-7=-338/412

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; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) -1-6-0 to
 1-6-0, Interior (1) 1-6-0 to 8-0-0 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
- 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
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members.
- 5) Bearings are assumed to be: Joint 8 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 98 lb uplift at joint
 6.
- 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.

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:

December 14, 2023

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

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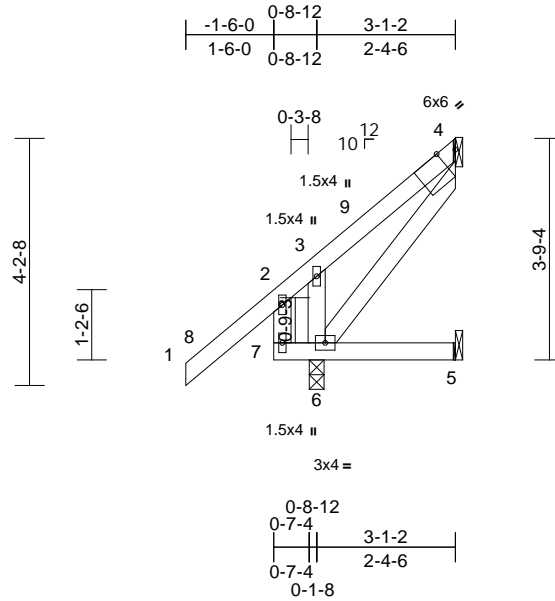
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss J21	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352971
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:31
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Page: 1



Scale = 1:39.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.01	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-1-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz 6=128 (LC 12)
Max Uplift 4=-81 (LC 12), 5=-11 (LC 1), 6=-12 (LC 12)
Max Grav 4=67 (LC 17), 5=42 (LC 12), 6=305 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

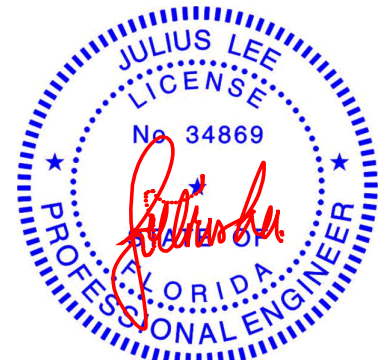
TOP CHORD 2-7=-128/217, 1-2=0/63, 2-3=-36/148, 3-4=-95/263
BOT CHORD 6-7=-15/16, 5-6=0/0
WEBS 4-6=-411/124, 3-6=-134/206

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 3-1-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearings are assumed to be: , Joint 6 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 4, 11 lb uplift at joint 5 and 12 lb uplift at joint 6.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

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:

December 14, 2023

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

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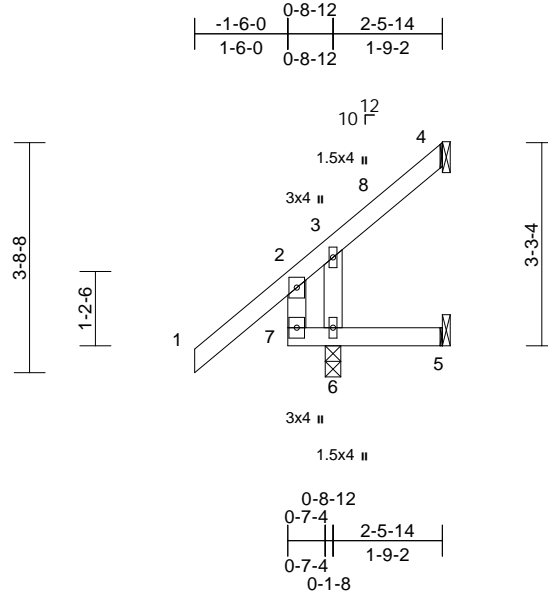
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J22	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352972
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32
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Page: 1



Scale = 1:37.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz 6=115 (LC 12)
Max Uplift 4=-30 (LC 12), 5=-32 (LC 1), 6=-20 (LC 12)
Max Grav 4=27 (LC 10), 5=13 (LC 3), 6=303 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

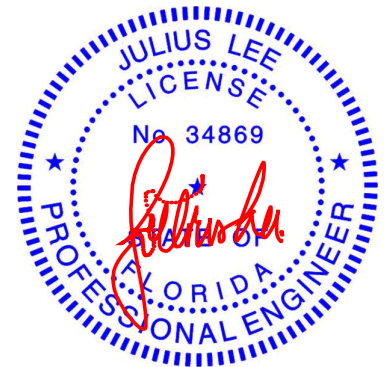
TOP CHORD 2-7=-114/90, 1-2=0/63, 2-3=-113/63, 3-4=-72/38
BOT CHORD 6-7=-53/229, 5-6=0/0
WEBS 3-6=-111/57

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 2-5-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 6 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 4, 32 lb uplift at joint 5 and 20 lb uplift at joint 6.

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:

December 14,2023

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

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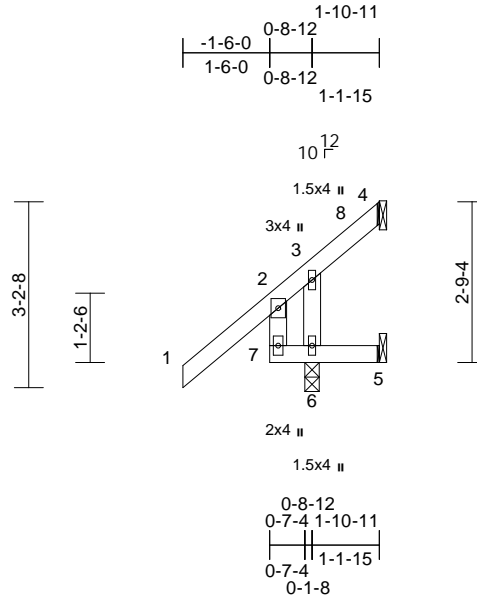
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss J23	Truss Type Jack-Open	Qty 1	Ply 1	Job Reference (optional) T32352973
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32
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Page: 1



Scale = 1:39.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	0.00	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.02	4	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
WEBS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 6=0-3-0
Max Horiz 6=104 (LC 12)
Max Uplift 4=-26 (LC 9), 5=-66 (LC 1), 6=-30 (LC 12)
Max Grav 4=12 (LC 10), 5=8 (LC 8), 6=324 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

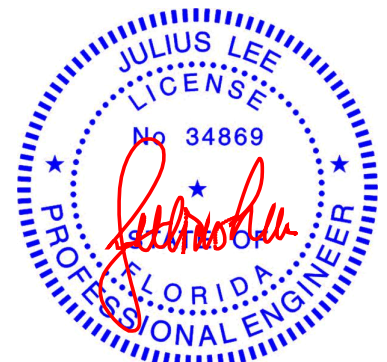
TOP CHORD 2-7=-125/122, 1-2=0/63, 2-3=-70/49, 3-4=-57/32
BOT CHORD 6-7=-48/200, 5-6=0/0
WEBS 3-6=-98/28

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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 1-10-9 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 6 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 5, 30 lb uplift at joint 6 and 26 lb uplift at joint 4.

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:

December 14, 2023

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

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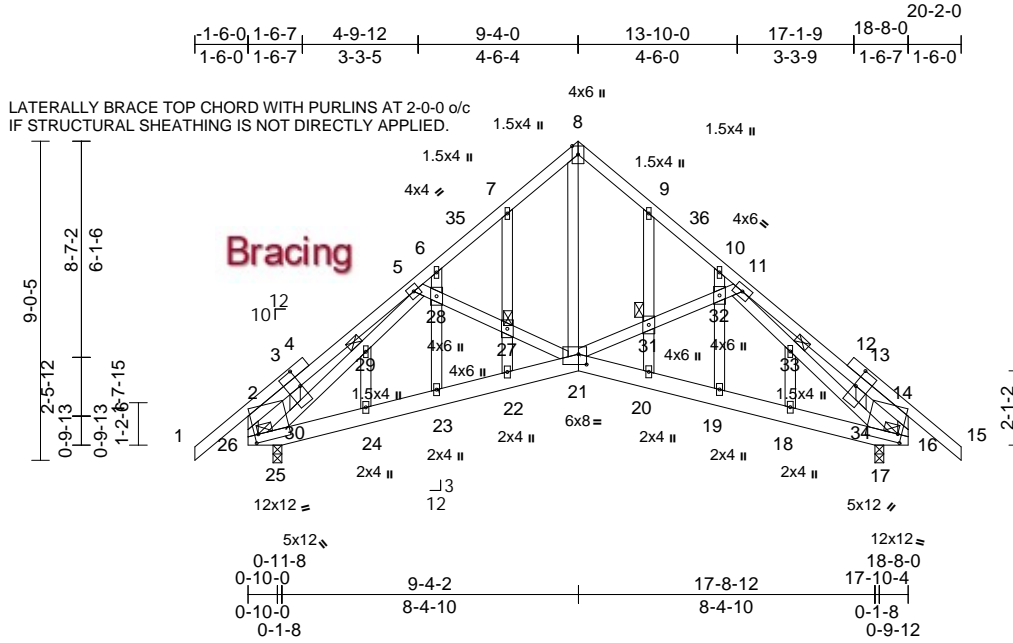
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss K01	Truss Type Scissor Structural Gable	Qty 1	Ply 1	Job Reference (optional) T32352974
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:32
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Page: 1



Scale = 1:65.1

Plate Offsets (X, Y): [16:0-1-4,0-2-14], [21:0-2-12,0-3-8], [26:0-1-4,0-2-13], [30:0-6-0,0-0-8], [34:0-6-0,0-0-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.17	Vert(LL)	-0.02	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.05	22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.03	17	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS								
											Weight: 166 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
JOINTS 1 Brace at Jt(s): 26, 16, 27, 29, 31, 33

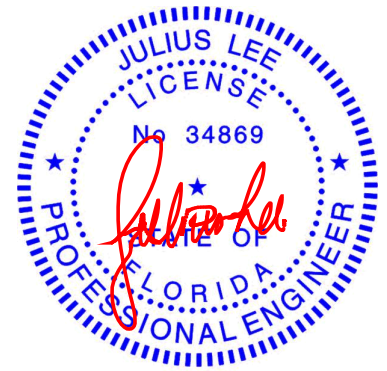
REACTIONS (size) 17=0-3-0, 25=0-3-0
Max Horiz 25=195 (LC 11)
Max Uplift 17=40 (LC 12), 25=48 (LC 12)
Max Grav 17=833 (LC 1), 25=835 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-253/12, 3-5=-219/70, 5-6=-766/4, 6-7=-682/17, 7-8=-668/78, 8-9=-670/83, 9-10=-683/33, 10-11=-765/12, 11-13=-223/67, 13-14=-262/9, 14-15=0/58, 2-26=-330/52, 14-16=-337/56
BOT CHORD 25-26=0/215, 24-25=0/704, 23-24=0/739, 22-23=0/710, 21-22=0/748, 20-21=0/674, 19-20=0/641, 18-19=0/667, 17-18=0/630, 16-17=0/222
WEBS 8-21=-57/662, 21-31=-194/97, 31-32=-189/91, 11-32=-161/97, 5-28=-147/95, 27-28=-179/90, 21-27=-176/93, 25-30=-715/0, 29-30=-685/0, 5-29=-768/0, 11-33=-761/0, 33-34=-679/0, 17-34=-708/7, 7-27=-110/71, 22-27=-116/63, 6-28=-5/99, 23-28=0/180, 24-29=-113/23, 3-30=-51/56, 9-31=-115/72, 20-31=-105/57, 10-32=-4/96, 19-32=0/176, 18-33=-111/24, 13-34=-51/55

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-4-0, Interior (1) 1-4-0 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 20-2-0 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Bearing at joint(s) 25, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 25.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 25 and 40 lb uplift at joint 17.

13) 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.
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:

December 14, 2023

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

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Chesterfield, MO 63017
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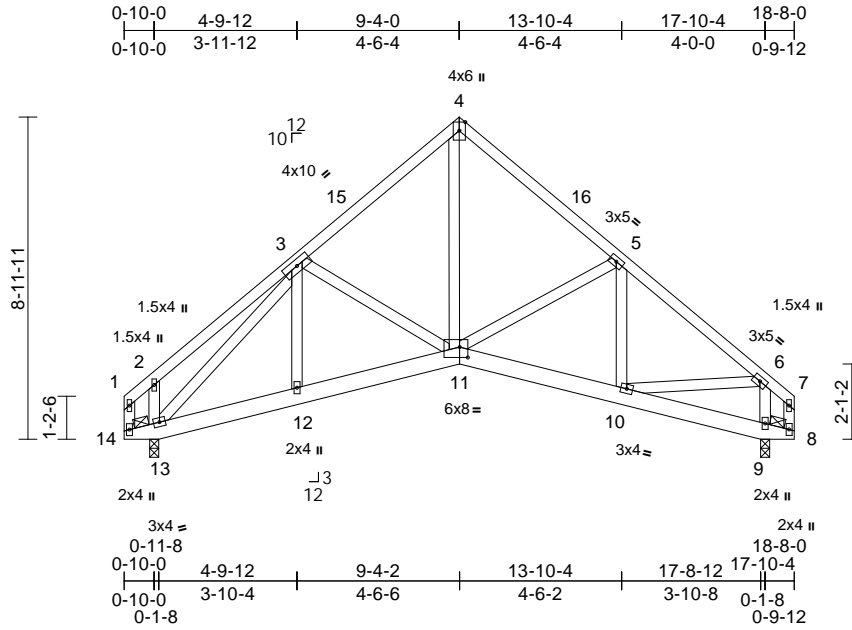
Job 1023-067	Truss K02	Truss Type Scissor	Qty 1	Ply 1	Job Reference (optional) T32352975
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:33

Page: 1

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Scale = 1:64.2

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.04	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 136 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, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 9=0-3-0, 13=0-3-0

Max Horiz 13=180 (LC 11)
 Max Uplift 13=12 (LC 12)
 Max Grav 9=734 (LC 1), 13=736 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

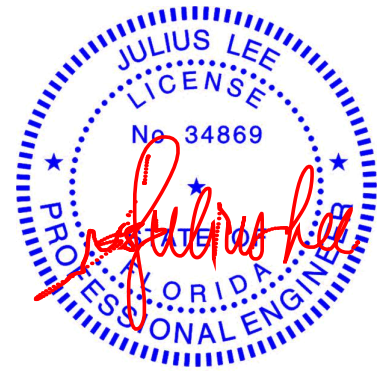
TOP CHORD 1-2=-79/0, 2-3=-179/88, 3-4=-690/86,
 4-5=-691/96, 5-6=-810/55, 6-7=-57/1,
 1-14=-55/0, 7-8=-44/0
 BOT CHORD 13-14=-1/85, 12-13=-16/648, 11-12=-17/657,
 10-11=-3/598, 9-10=-19/70, 8-9=-9/61
 WEBS 4-11=-29/505, 3-11=-159/88, 3-13=-765/0,
 3-12=0/157, 5-11=-177/92, 5-10=-119/47,
 6-10=0/523, 6-9=-663/89, 2-13=-189/101

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 18-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Bearing at joint(s) 13, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 13.
- 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.

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:

December 14, 2023

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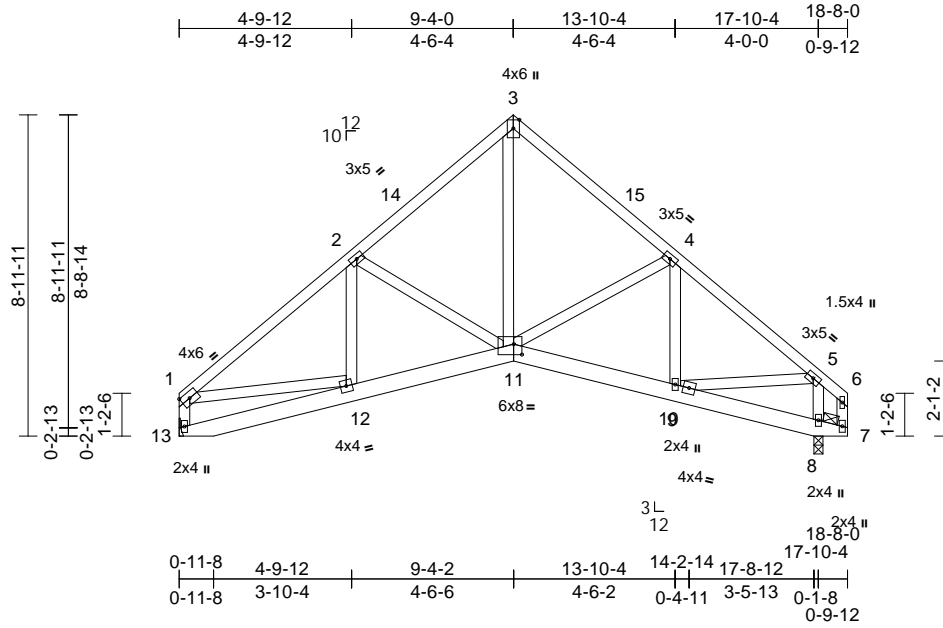
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss K03	Truss Type Scissor	Qty 1	Ply 1	Job Reference (optional) T32352976
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:34
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Page: 1



Scale = 1:64.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.04	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 133 lb	FT = 20%

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

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

REACTIONS (size) 8=0-3-0, 13= Mechanical
Max Horiz 13=183 (LC 10)
Max Grav 8=763 (LC 1), 13=707 (LC 1)

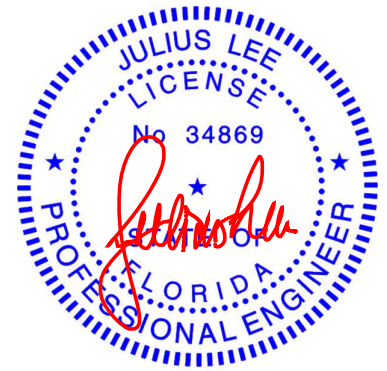
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-956/55, 2-3=-740/91, 3-4=-739/99, 4-5=-846/57, 5-6=-55/2, 1-13=-678/50, 6-7=-42/0
BOT CHORD 12-13=-151/256, 11-12=-21/760, 10-11=-4/627, 9-10=0/573, 8-9=-19/69, 7-8=-9/60
WEBS 3-11=-36/574, 4-11=-169/92, 2-11=-237/91, 1-12=0/563, 4-10=-132/48, 2-12=-49/90, 5-8=-697/89, 5-9=0/553

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 8 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.

LOAD CASE(S) Standard

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior (1) 12-4-0 to 18-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.



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

December 14,2023

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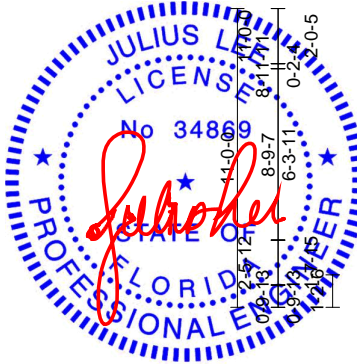
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss K04	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional) T32352977
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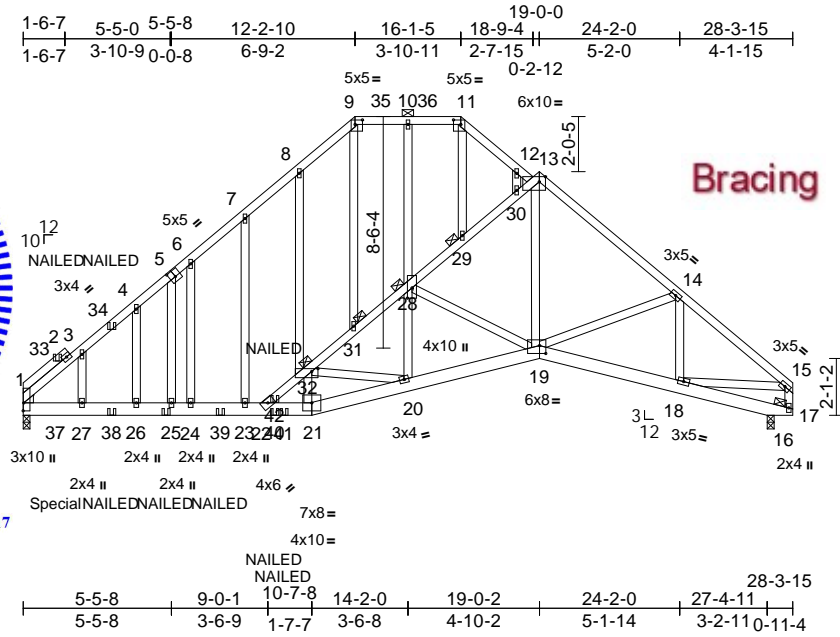
Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



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



Scale = 1:84.8

Plate Offsets (X, Y): [1:Edge,0-0-5], [5:0-2-8,0-3-0], [9:0-3-4,0-2-0], [11:0-3-4,0-2-0], [13:0-2-12,Edge], [19:0-2-12,0-3-8], [28:0-4-8,0-2-0], [32:0-2-12,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.11	25-26	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.15	25-26	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.03	16	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 529 lb	FT = 20%

LUMBER	WEBS	NOTES
TOP CHORD 2x4 SP No.2	5-25=-123/104, 22-32=-895/1726,	6) 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.
BOT CHORD 2x6 SP No.2	31-32=-827/1324, 28-31=-860/970,	7) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
WEBS 2x4 SP No.2	28-29=-680/363, 29-30=-692/190,	8) Provide adequate drainage to prevent water ponding.
OTHERS 2x4 SP No.2	13-30=-743/307, 10-28=-107/447,	9) All plates are 1.5x4 MT20 unless otherwise indicated.
WEDGE Left: 2x4 SP No.2	20-28=-72/104, 11-29=-58/516,	10) Gable studs spaced at 2-0-0 oc.
BRACING	12-30=-303/77, 14-18=-228/50,	11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-11.	9-31=-66/548, 8-32=-107/104, 7-23=-259/85,	12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-17.	6-24=-120/55, 4-26=-172/104,	13) All bearings are assumed to be SP No.2 .
JOINTS 1 Brace at Jt(s): 17, 28, 29, 31, 32	3-27=-273/126, 21-32=-171/95,	
REACTIONS (size) 1=0-3-0, 16=0-3-0	20-32=-46/464, 13-19=-127/650,	
Max Horiz 1=224 (LC 7)	19-28=-159/965, 14-19=-139/140,	
Max Uplift 1=-50 (LC 8)	15-18=0/1130	
Max Grav 1=1432 (LC 14), 16=1165 (LC 14)		
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD 1-3=-1552/0, 3-4=-1608/0, 4-6=-1589/44,		
6-7=-1526/90, 7-8=-1589/160,		
8-9=-1526/202, 9-10=-1190/172,		
10-11=-1190/172, 13-14=-1617/40,		
14-15=-1641/11, 15-17=-1133/11,		
11-12=-1529/199, 12-13=-1376/157		
BOT CHORD 1-27=0/1338, 26-27=0/1257, 25-26=0/1257,		
24-25=0/1256, 23-24=0/1256, 22-23=0/1256,		
21-22=-332/834, 20-21=-352/878,		
19-20=-59/883, 18-19=0/1261, 16-18=-1/88,		
16-17=-351/0		

December 14,2023

Continued on page 2

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

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

MiTek®

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

Job 1023-067	Truss K04	Truss Type Piggyback Base Girder	Qty 1	Ply 2	Job Reference (optional) T32352977
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:35
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Page: 2

- 14) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- 16) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 40 lb up at 1-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-9=-60, 9-11=-60, 12-15=-60, 1-21=-20,
19-21=-20, 16-19=-20, 11-12=-60
Concentrated Loads (lb)
Vert: 25=39 (F), 33=59 (F), 34=39 (F), 37=-46 (F),
39=39 (F), 41=-171 (F), 42=39 (F)

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Job 1023-067	Truss K05	Truss Type Piggyback Base	Qty 2	Ply 1	Job Reference (optional) T32352978
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:35
ID:2_s_Ke29MgnTDZIQF?4NSqyOHRc-RfC?PsB70Hq3NSgPqL8w3uITXbGKWrCDoi7J4zJC?7

Page: 1

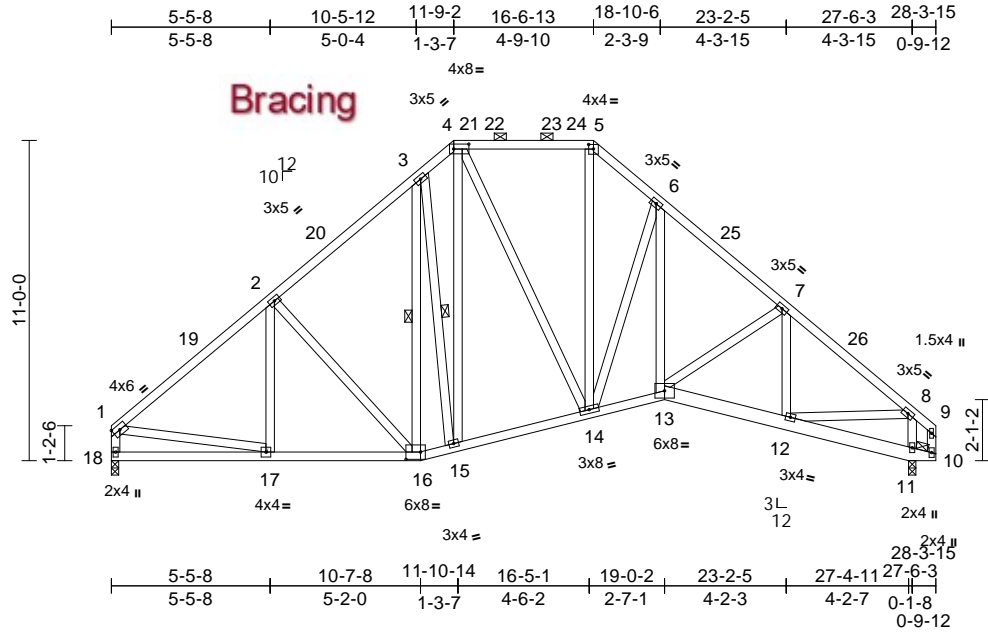


Plate Offsets (X, Y): [4:0-6-4,0-2-0], [5:0-2-0,0-1-13], [16:0-6-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.04	13	>999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.08	13	>999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	11	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS						Weight: 245 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except* 13-10:2x6 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.): 4-5.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-16, 3-15

REACTIONS (size) 11=0-3-0, 18=0-3-0
Max Horiz 18=226 (LC 10)
Max Grav 11=1149 (LC 1), 18=1094 (LC 1)

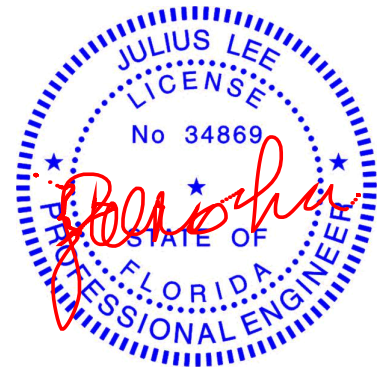
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1269/46, 2-3=-1070/121, 3-4=-960/178, 4-5=-790/119, 5-6=-1064/138, 6-7=-1371/91, 7-8=-1401/42, 8-9=-89/0, 1-18=-1041/37, 9-10=-71/0
BOT CHORD 17-18=-164/306, 16-17=-10/949, 15-16=0/787, 14-15=0/759, 13-14=0/1000, 12-13=0/1050, 11-12=-21/84, 10-11=-8/88
WEBS 2-17=-32/122, 2-16=-279/83, 3-16=-50/91, 3-15=-246/141, 4-15=-112/320, 4-14=0/241, 5-14=-36/441, 6-14=-592/62, 6-13=0/543, 1-17=0/776, 8-11=-1051/89, 7-12=-228/45, 7-13=-102/77, 8-12=0/945

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=28ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-9-2, Exterior(2R) 11-9-2 to 16-0-1, Interior (1) 16-0-1 to 16-6-13, Exterior(2R) 16-6-13 to 20-9-11, Interior (1) 20-9-11 to 28-2-3 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearings are assumed to be: Joint 18 SP No.2, Joint 11 SP No.2.
- 8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

December 14, 2023

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

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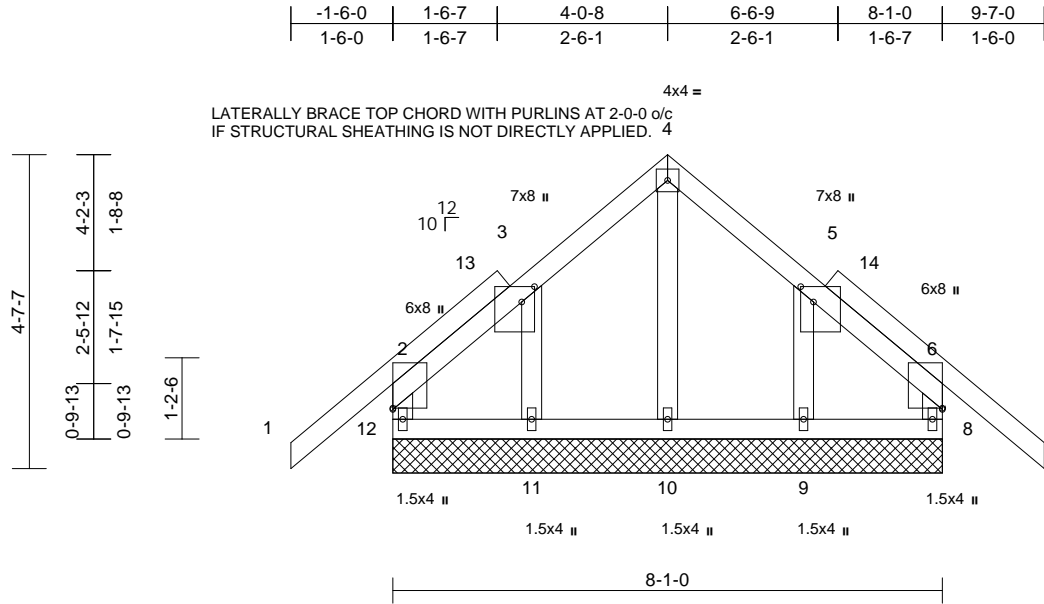
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss M01	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T32352979
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:33.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 53 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 8=8-1-0, 9=8-1-0, 10=8-1-0, 11=8-1-0, 12=8-1-0
Max Horiz 12=107 (LC 11)
Max Uplift 8=-78 (LC 12), 9=-19 (LC 8), 11=-22 (LC 9), 12=-78 (LC 12)
Max Grav 8=196 (LC 24), 9=160 (LC 18), 10=172 (LC 1), 11=166 (LC 17), 12=196 (LC 23)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-12=-178/226, 1-2=0/58, 2-3=-66/93, 3-4=-75/162, 4-5=-75/162, 5-6=-55/93, 6-7=0/58, 6-8=-178/226
BOT CHORD 11-12=-50/71, 10-11=-50/71, 9-10=-50/71, 8-9=-50/71
WEBS 4-10=-132/0, 3-11=-128/104, 5-9=-128/104

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-0-8, Corner(3R) 4-0-8 to 7-0-8, Exterior(2N) 7-0-8 to 9-7-0 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

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 12, 78 lb uplift at joint 8, 22 lb uplift at joint 11 and 19 lb uplift at joint 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.

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:

December 14, 2023

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

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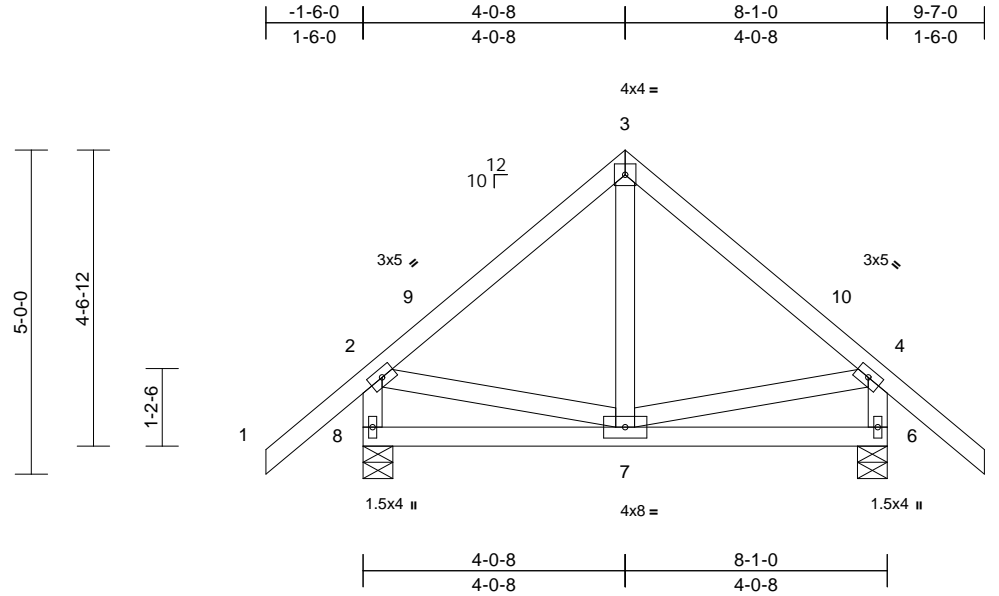
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss M02	Truss Type Common	Qty 2	Ply 1	Job Reference (optional) T32352980
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.01	6-7	>999	180		
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-AS							Weight: 53 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, 8=0-5-8
Max Horiz 8=119 (LC 11)
Max Uplift 6=-40 (LC 12), 8=-40 (LC 12)
Max Grav 6=410 (LC 1), 8=410 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-261/88, 3-4=-261/88,
4-5=0/63, 2-8=-380/175, 4-6=-380/175
BOT CHORD 7-8=-116/109, 6-7=-15/16
WEBS 3-7=0/134, 2-7=0/165, 4-7=0/165

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior (1) 1-6-0 to 4-0-8, Exterior(2R) 4-0-8 to 7-0-8, Interior (1) 7-0-8 to 9-7-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8 and 40 lb uplift at joint 6.
- 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.

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:

December 14, 2023

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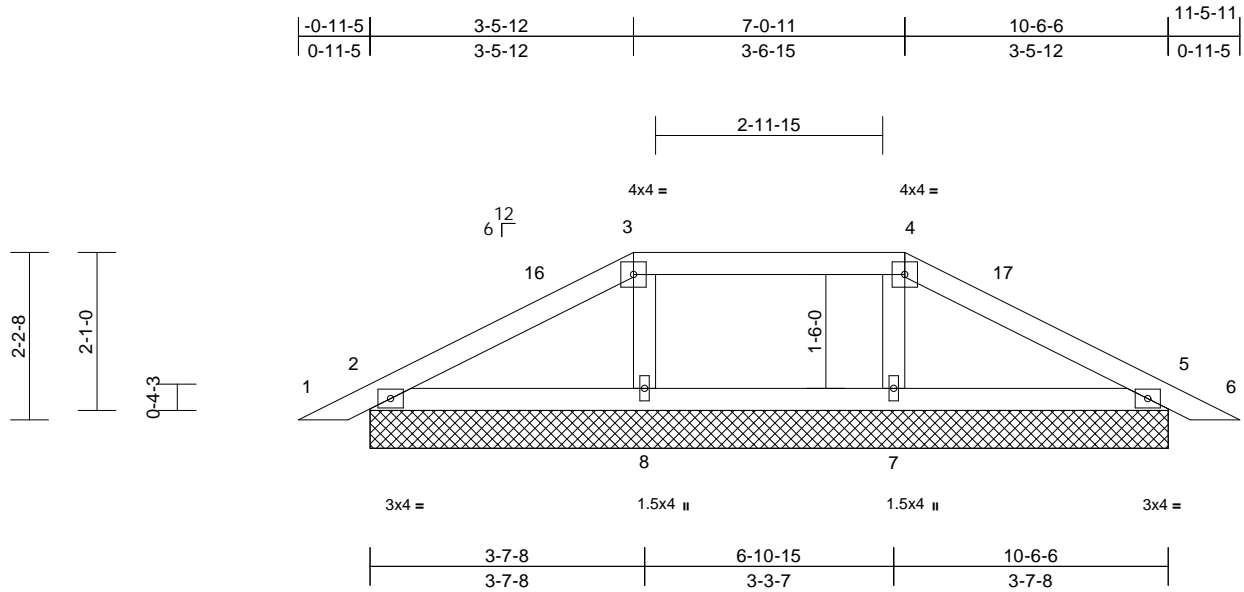
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB01	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T32352981
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:30.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	13	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=10-6-6, 5=10-6-6, 7=10-6-6,
8=10-6-6, 9=10-6-6, 13=10-6-6
Max Horiz 2=34 (LC 11), 9=34 (LC 11)
Max Uplift 2=23 (LC 12), 5=23 (LC 12),
9=23 (LC 12), 13=23 (LC 12)
Max Grav 2=177 (LC 1), 5=177 (LC 1), 7=294
(LC 24), 8=294 (LC 23), 9=177 (LC
1), 13=177 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=0/17, 2-3=-65/51, 3-4=-36/61,
4-5=-65/50, 5-6=0/17
BOT CHORD 2-8=-2/43, 7-8=-1/29, 5-7=-2/40
WEBS 3-8=-206/94, 4-7=-206/94

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-3-15 to
3-3-15, Interior (1) 3-3-15 to 4-5-1, Exterior(2E) 4-5-1 to
12-1-2 zone; cantilever left and right exposed; end
vertical left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 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.

- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 23 lb uplift at joint
2, 23 lb uplift at joint 5, 23 lb uplift at joint 2 and 23 lb
uplift at joint 5.
- 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.
- See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.

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:

December 14, 2023

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

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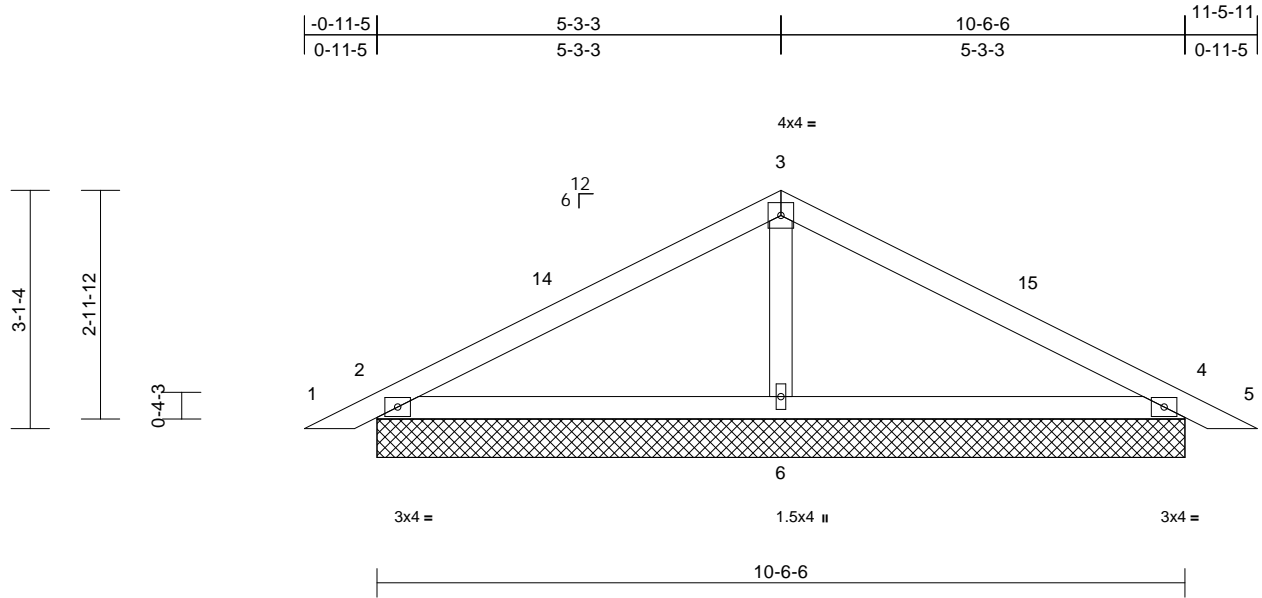
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB02	Truss Type Piggyback	Qty 16	Ply 1	Job Reference (optional) T32352982
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:38
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Page: 1



Scale = 1:30

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 2=10-6-6, 4=10-6-6, 6=10-6-6,
7=10-6-6, 11=10-6-6
Max Horiz 2=-49 (LC 10), 7=-49 (LC 10)
Max Uplift 2=-27 (LC 12), 4=-27 (LC 12),
7=-27 (LC 12), 11=-27 (LC 12)
Max Grav 2=249 (LC 1), 4=249 (LC 1), 6=418
(LC 1), 7=249 (LC 1), 11=249 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

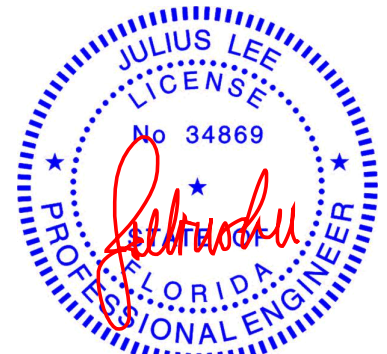
TOP CHORD 1-2=0/17, 2-3=-134/92, 3-4=-134/89,
4-5=0/17
BOT CHORD 2-6=-18/85, 4-6=-16/85
WEBS 3-6=-245/102

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-3-15 to
3-3-15, Interior (1) 3-3-15 to 6-2-8, Exterior(2R) 6-2-8 to
9-2-8, Interior (1) 9-2-8 to 12-1-2 zone; cantilever left
and right exposed; end vertical left and right exposed; C-
C for members and forces & MWFRS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 27 lb uplift at joint 4, 27 lb uplift at joint 2 and 27 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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

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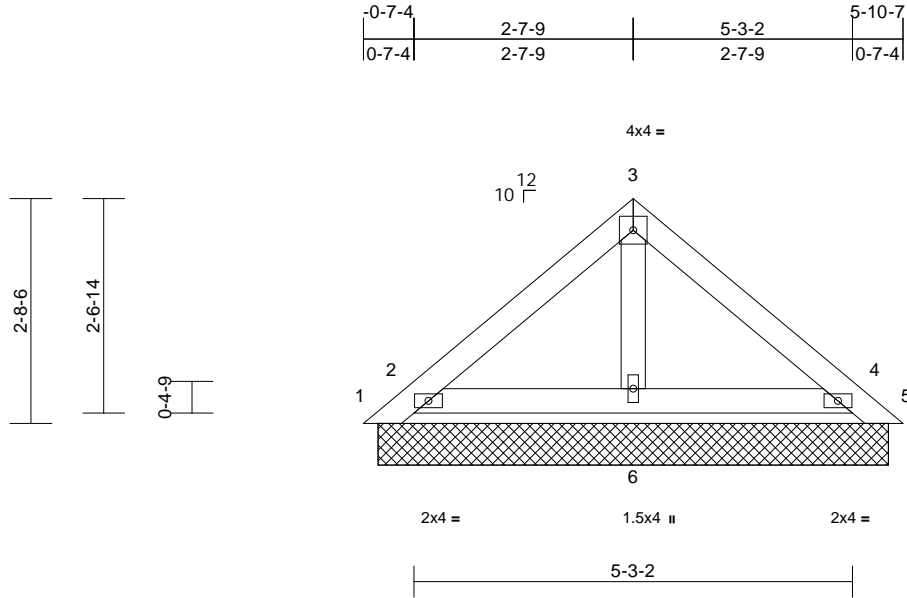
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB03	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T32352983
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:27.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=6-1-8, 2=6-1-8, 4=6-1-8, 5=6-1-8,
6=6-1-8, 7=6-1-8, 13=6-1-8

Max Horiz 1=50 (LC 11)
Max Uplift 1=-139 (LC 17), 2=-26 (LC 9),
7=-26 (LC 9)
Max Grav 1=37 (LC 9), 2=260 (LC 17), 4=3
(LC 18), 5=88 (LC 1), 6=284 (LC
1), 7=260 (LC 17), 13=3 (LC 18)

FORCES

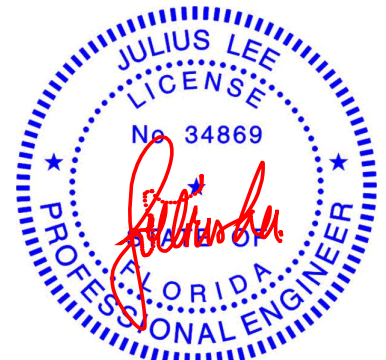
(lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=-77/136, 2-3=-70/72, 3-4=-29/88,
4-5=-54/24
BOT CHORD 2-6=-69/82, 4-6=-69/82
WEBS 3-6=-180/73

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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; Enclosed;
MWFERS (directional) and C-C Exterior(2E) zone;
cantilever left and right exposed; end vertical left and
right exposed; C-C for members and forces & MWFERS
for reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- 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.

- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 26 lb uplift at joint
2, 139 lb uplift at joint 1 and 26 lb uplift at joint 2.
- 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.
- See Standard Industry Piggyback Truss Connection
Detail for Connection to base truss as applicable, or
consult qualified building designer.

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:

December 14, 2023

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

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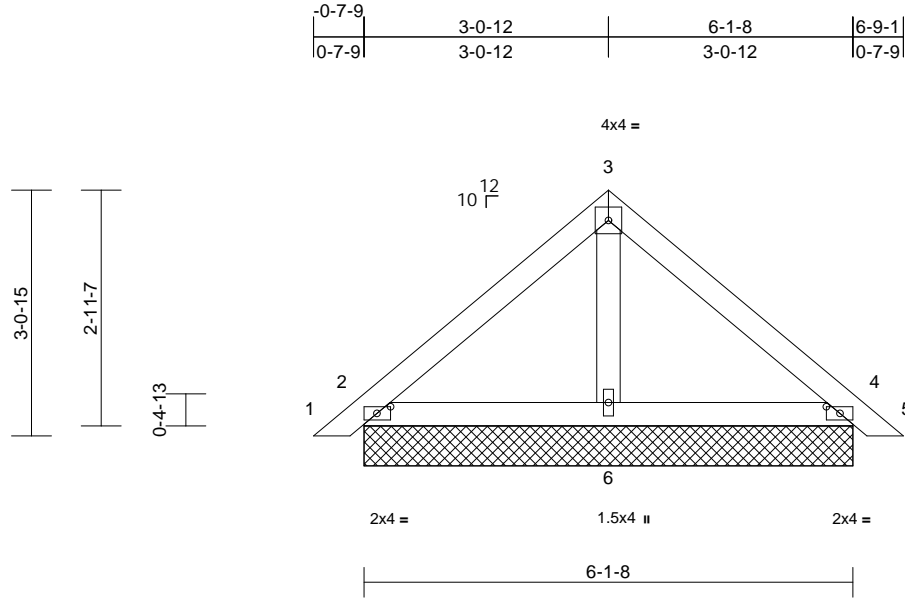
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB04	Truss Type Piggyback	Qty 16	Ply 1	Job Reference (optional) T32352984
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:28.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 27 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=6-1-8, 4=6-1-8, 6=6-1-8, 7=6-1-8, 11=6-1-8
Max Horiz 2=-57 (LC 10), 7=-57 (LC 10)
Max Uplift 2=-24 (LC 12), 4=-24 (LC 12), 7=-24 (LC 12), 11=-24 (LC 12)
Max Grav 2=174 (LC 1), 4=174 (LC 1), 6=191 (LC 1), 7=174 (LC 1), 11=174 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-118/88, 3-4=-118/87, 4-5=0/15
BOT CHORD 2-6=-20/58, 4-6=-18/58
WEBS 3-6=-71/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-5, Exterior(2R) 3-8-5 to 6-5-2, Interior (1) 6-5-2 to 7-1-14 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
- 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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

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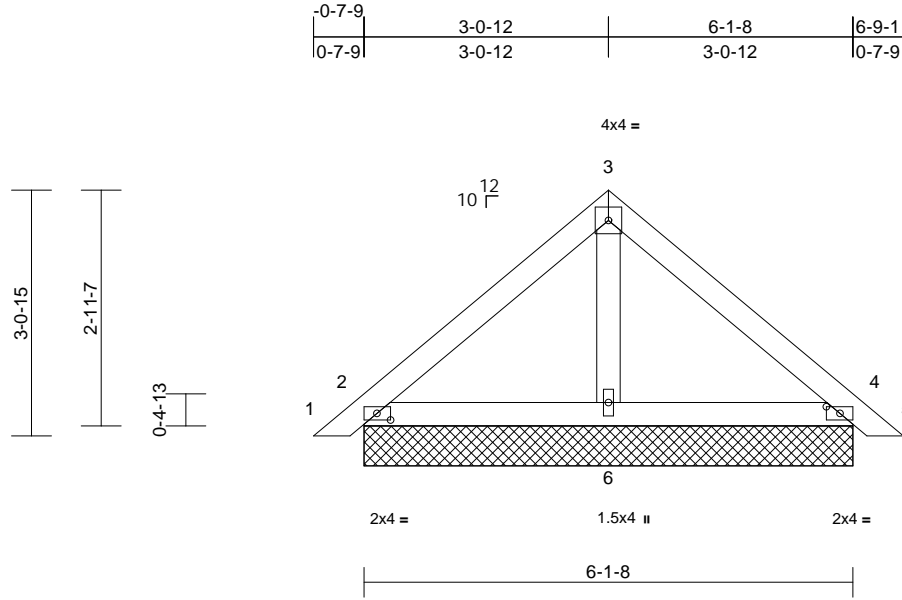
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32352985
1023-067	PB05	Piggyback	2	2		

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

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Page: 1



Scale = 1:28.8

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 54 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.
- BOT CHORD Rigid ceiling directly applied.

REACTIONS

- (size) 2=6-1-8, 4=6-1-8, 6=6-1-8, 7=6-1-8, 11=6-1-8
- Max Horiz 2=-57 (LC 10), 7=-57 (LC 10)
- Max Uplift 2=-24 (LC 12), 4=-24 (LC 12), 7=-24 (LC 12), 11=-24 (LC 12)
- Max Grav 2=173 (LC 1), 4=173 (LC 1), 6=191 (LC 1), 7=173 (LC 1), 11=173 (LC 1)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/15, 2-3=-118/89, 3-4=-118/88, 4-5=0/15
- BOT CHORD 2-6=-23/69, 4-6=-21/57
- WEBS 3-6=-72/0

NOTES

- 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 3-8-5, Exterior(2R) 3-8-5 to 6-5-2, Interior (1) 6-5-2 to 7-1-14 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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

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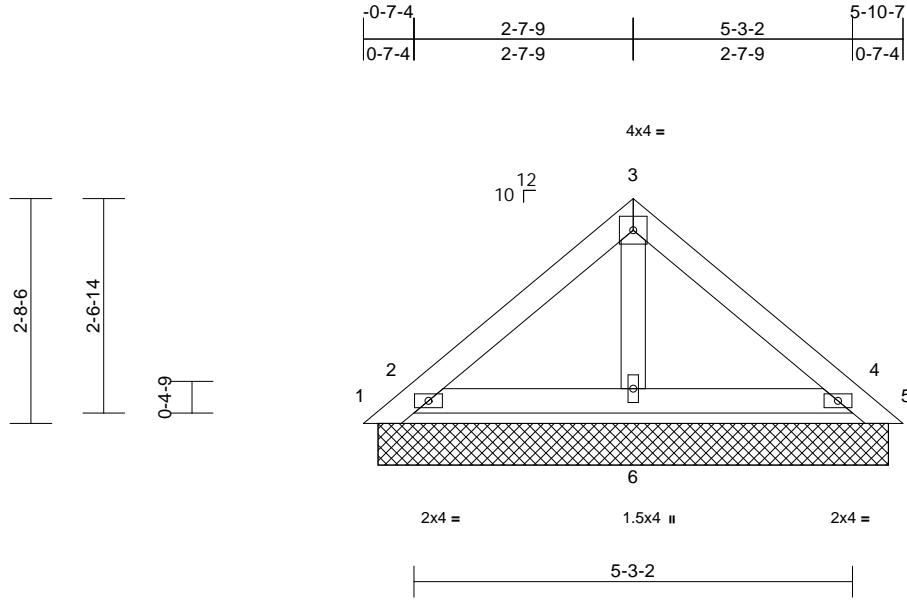
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB06	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T32352986
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:40
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 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.
BOT CHORD	Rigid ceiling directly applied.
REACTIONS (size)	
1=6-1-8, 2=6-1-8, 4=6-1-8, 5=6-1-8, 6=6-1-8, 7=6-1-8, 10=6-1-8	
Max Horiz	1=50 (LC 11)
Max Uplift	1=-147 (LC 17), 2=-35 (LC 12), 4=-42 (LC 12), 5=-117 (LC 18), 7=-35 (LC 12), 10=-42 (LC 12)
Max Grav	1=35 (LC 9), 2=310 (LC 17), 4=278 (LC 18), 5=31 (LC 12), 6=151 (LC 1), 7=310 (LC 17), 10=278 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-81/141, 2-3=-83/57, 3-4=-82/60, 4-5=-61/93
BOT CHORD	2-6=-36/46, 4-6=-36/46
WEBS	3-6=-76/9

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - 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; Enclosed; 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
 - 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.

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2, 42 lb uplift at joint 4, 147 lb uplift at joint 1, 117 lb uplift at joint 5, 35 lb uplift at joint 2 and 42 lb uplift at joint 4.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 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:

December 14,2023

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

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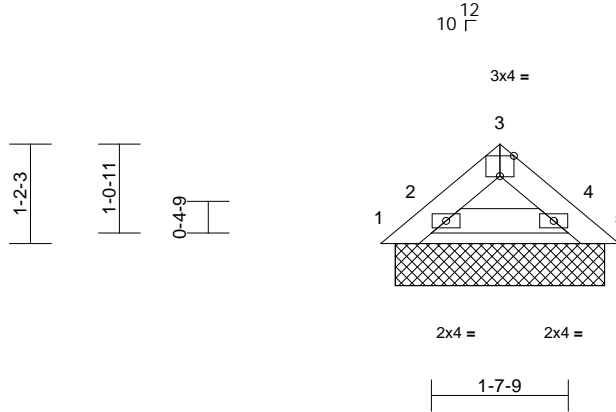
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-067	PB07	Piggyback	1	1	T32352987

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

Run: 9.04 E 8.73 Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Thu Dec 14 11:57:00
ID:hbgw44KzOAx3yQ4gwlQeWEyPFQp-y3WRTbFV8Tg6r4hvnvSoAjlL6zE4snwgGJK895ny9ERX

Page: 1

-0-7-4	0-9-13	1-7-9	2-2-14
0-7-4	0-9-13	0-9-13	0-7-4



Scale = 1:27.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 8 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 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

All bearings 2-5-15.
(lb) - Max Horiz 1=20 (LC 11)
Max Uplift All uplift 100 (lb) or less at joint(s) 1
Max Grav All reactions 250 (lb) or less at joint (s) 1, 2, 5, 6

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

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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; Enclosed; 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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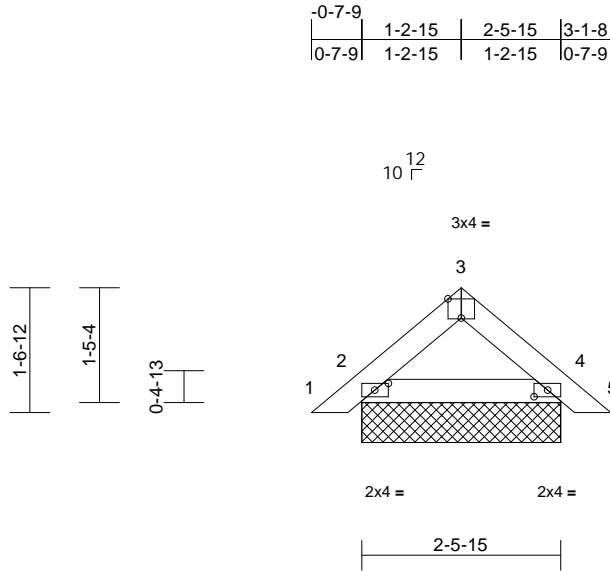
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1023-067	PB08	Piggyback	15	1	T32352988

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:40
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Page: 1



Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 11 lb	FT = 20%

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

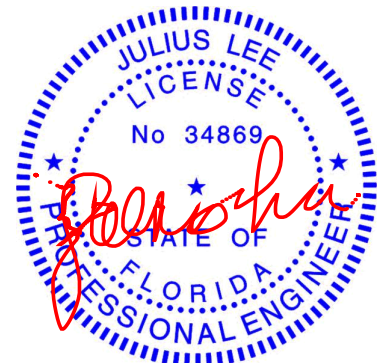
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-5-15, 4=2-5-15, 6=2-5-15, 10=2-5-15
 Max Horiz 2=27 (LC 11), 6=27 (LC 11)
 Max Uplift 2=-10 (LC 12), 4=-6 (LC 12), 6=-10 (LC 12), 10=-6 (LC 12)
 Max Grav 2=124 (LC 1), 4=130 (LC 1), 6=124 (LC 1), 10=130 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/15, 2-3=-66/38, 3-4=-66/39, 4-5=0/15
 BOT CHORD 2-4=0/49

- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 9) All bearings are assumed to be SP No.2 .
 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2, 6 lb uplift at joint 4, 10 lb uplift at joint 2 and 6 lb uplift at joint 4.
 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 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
 - 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.



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

December 14,2023

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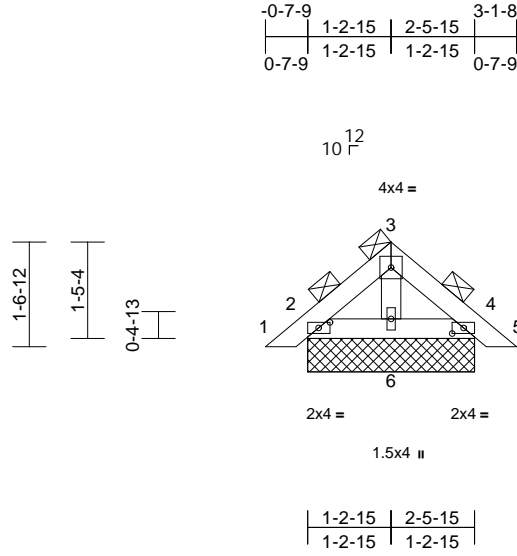
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 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB8A	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T32352989
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:37
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Page: 1



Scale = 1:34.5
Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	3-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING
TOP CHORD 2-0-0 oc purlins
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
bracing.

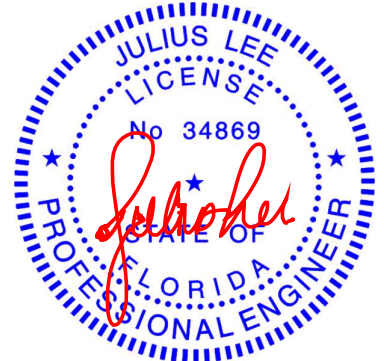
REACTIONS (size) 2=2-5-15, 4=2-5-15, 6=2-5-15,
7=2-5-15, 11=2-5-15
Max Horiz 2=41 (LC 11), 7=41 (LC 11)
Max Uplift 2=-24 (LC 12), 4=-24 (LC 12),
7=-24 (LC 12), 11=-24 (LC 12)
Max Grav 2=123 (LC 1), 4=123 (LC 1), 6=126
(LC 1), 7=123 (LC 1), 11=123 (LC
1)

FORCES (lb) - Maximum Compression/Maximum
Tension
TOP CHORD 1-2=0/23, 2-3=-52/44, 3-4=-49/49, 4-5=0/23
BOT CHORD 2-6=-14/53, 4-6=-14/53
WEBS 3-6=-51/1

- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 24 lb uplift at joint 4, 24 lb uplift at joint 2 and 24 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.


LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 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
 - 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.



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

December 14,2023

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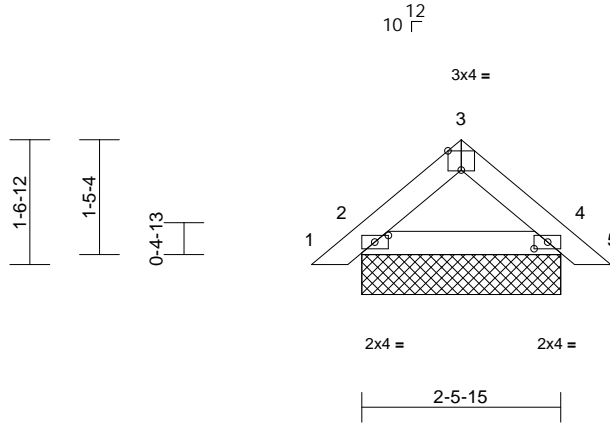
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32352990
1023-067	PB09	Piggyback	1	2		

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:41
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Page: 1

-0-7-9	1-2-15	2-5-15	3-1-8
0-7-9	1-2-15	1-2-15	0-7-9



Scale = 1:28.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 22 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 3-9-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=2-5-15, 4=2-5-15, 6=2-5-15, 10=2-5-15
 Max Horiz 2=27 (LC 11), 6=27 (LC 11)
 Max Uplift 2=-10 (LC 12), 4=-6 (LC 12), 6=-10 (LC 12), 10=-6 (LC 12)
 Max Grav 2=124 (LC 1), 4=130 (LC 1), 6=124 (LC 1), 10=130 (LC 1)

FORCES

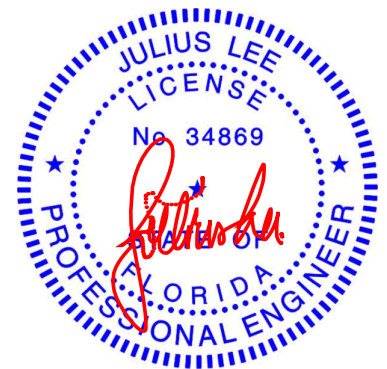
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/15, 2-3=-65/38, 3-4=-66/39, 4-5=0/15
 BOT CHORD 2-4=-1/49

NOTES

- 2-ply truss to be connected together as follows:
 Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; 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; Enclosed;
 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 2, 6 lb uplift at joint 4, 10 lb uplift at joint 2 and 6 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14,2023

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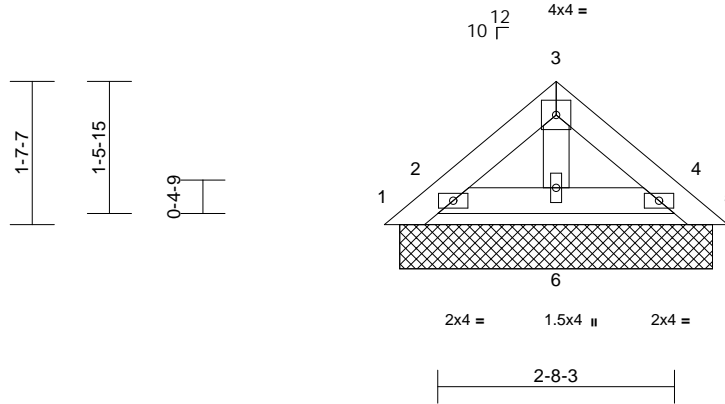
Job 1023-067	Truss PB10	Truss Type Piggyback	Qty 1	Ply 2	Job Reference (optional) T32352991
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:41
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Page: 1

-0-7-4	1-4-1	2-8-3	3-3-7
0-7-4	1-4-1	1-4-1	0-7-4



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 25 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 4-9-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-6-8, 2=3-6-8, 4=3-6-8, 5=3-6-8, 6=3-6-8, 7=3-6-8, 10=3-6-8

Max Horiz 1=-28 (LC 10)
Max Uplift 1=-27 (LC 10), 2=-1 (LC 12), 4=-7 (LC 12), 5=-7 (LC 18), 7=-1 (LC 12), 10=-7 (LC 12)
Max Grav 1=21 (LC 11), 2=120 (LC 17), 4=100 (LC 1), 5=4 (LC 12), 6=91 (LC 1), 7=120 (LC 17), 10=100 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-34/50, 2-3=-32/32, 3-4=-33/34, 4-5=-5/25
BOT CHORD 2-6=-13/36, 4-6=-13/36
WEBS 3-6=-40/5

- NOTES**
- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; 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; Enclosed; 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No. 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2, 7 lb uplift at joint 4, 27 lb uplift at joint 1, 7 lb uplift at joint 5, 1 lb uplift at joint 2 and 7 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

December 14, 2023

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

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

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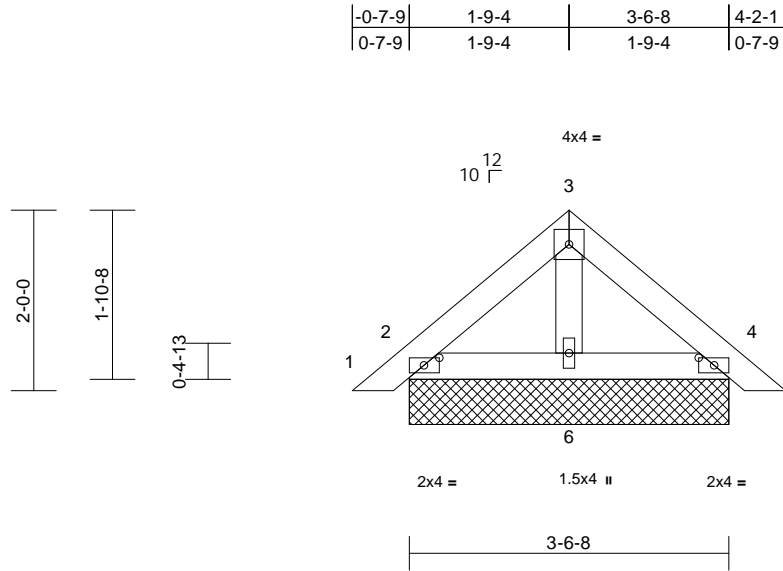
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss PB11	Truss Type Piggyback	Qty 3	Ply 1	Job Reference (optional) T32352992
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:42
ID:hnmHn6lF7W0BxygQcNpSqyPFbC-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.5
Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 16 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=3-6-8, 4=3-6-8, 6=3-6-8, 7=3-6-8, 11=3-6-8
Max Horiz 2=-36 (LC 10), 7=-36 (LC 10)
Max Uplift 2=-17 (LC 12), 4=-17 (LC 12), 7=-17 (LC 12), 11=-17 (LC 12)
Max Grav 2=106 (LC 1), 4=106 (LC 1), 6=119 (LC 1), 7=106 (LC 1), 11=106 (LC 1)

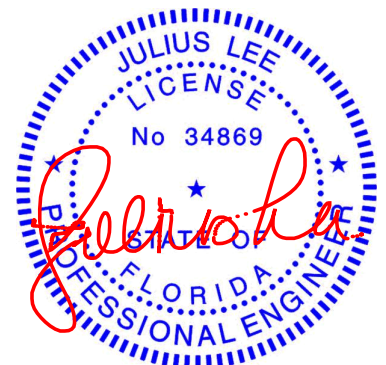
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/15, 2-3=-56/45, 3-4=-55/49, 4-5=0/15
BOT CHORD 2-6=-6/38, 4-6=-6/38
WEBS 3-6=-48/1

- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 2, 17 lb uplift at joint 4, 17 lb uplift at joint 2 and 17 lb uplift at joint 4.
- 11) 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.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 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
- 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.



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

December 14,2023

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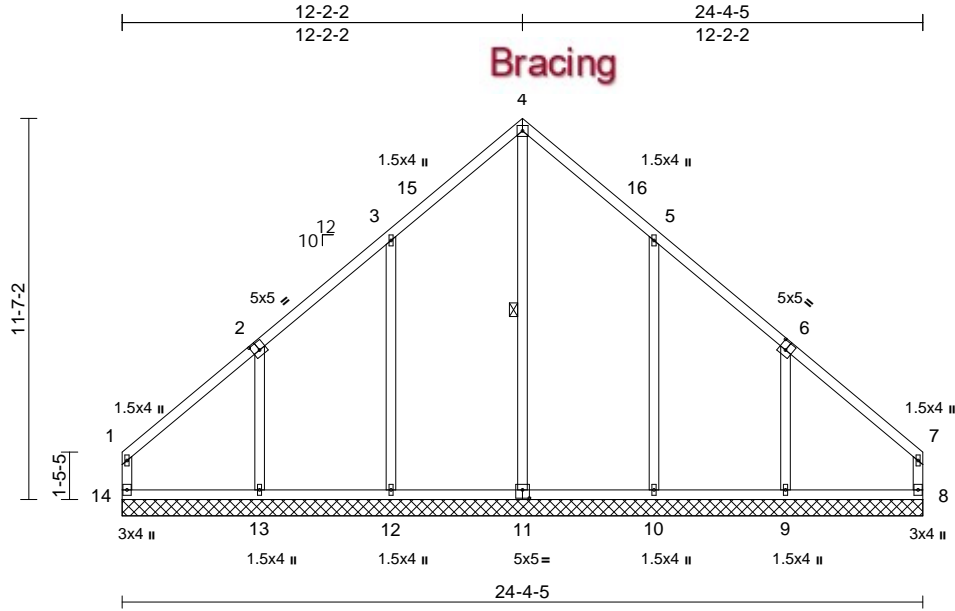
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32352993
1023-067	V01	Valley	1	1		

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

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:42
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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [11:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.29	Horiz(TL)	0.01	8	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
 OTHERS 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 4-11

REACTIONS (size) 8=24-4-5, 9=24-4-5, 10=24-4-5, 11=24-4-5, 12=24-4-5, 13=24-4-5, 14=24-4-5
 Max Horiz 14=-234 (LC 10)
 Max Uplift 8=-28 (LC 9), 9=-81 (LC 12), 10=-65 (LC 12), 12=-65 (LC 12), 13=-81 (LC 12), 14=-35 (LC 8)
 Max Grav 8=265 (LC 17), 9=488 (LC 18), 10=464 (LC 18), 11=326 (LC 12), 12=463 (LC 17), 13=492 (LC 17), 14=274 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-14=-195/51, 1-3=-224/173, 3-4=-246/280, 7-8=-187/48, 4-5=-246/276, 5-7=-213/169
 BOT CHORD 13-14=-96/132, 12-13=-96/128, 10-12=-96/128, 9-10=-96/128, 8-9=-92/128
 WEBS 4-11=-279/138, 3-12=-267/130, 2-13=-289/136, 5-10=-268/130, 6-9=-287/135

NOTES
 1) Unbalanced roof live loads have been considered for this design.

- 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; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 12-2-2, Exterior(2R) 12-2-2 to 15-2-2, Interior (1) 15-2-2 to 24-2-9 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 14, 28 lb uplift at joint 8, 65 lb uplift at joint 12, 81 lb uplift at joint 13, 65 lb uplift at joint 10 and 81 lb uplift at joint 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.

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:

December 14, 2023

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

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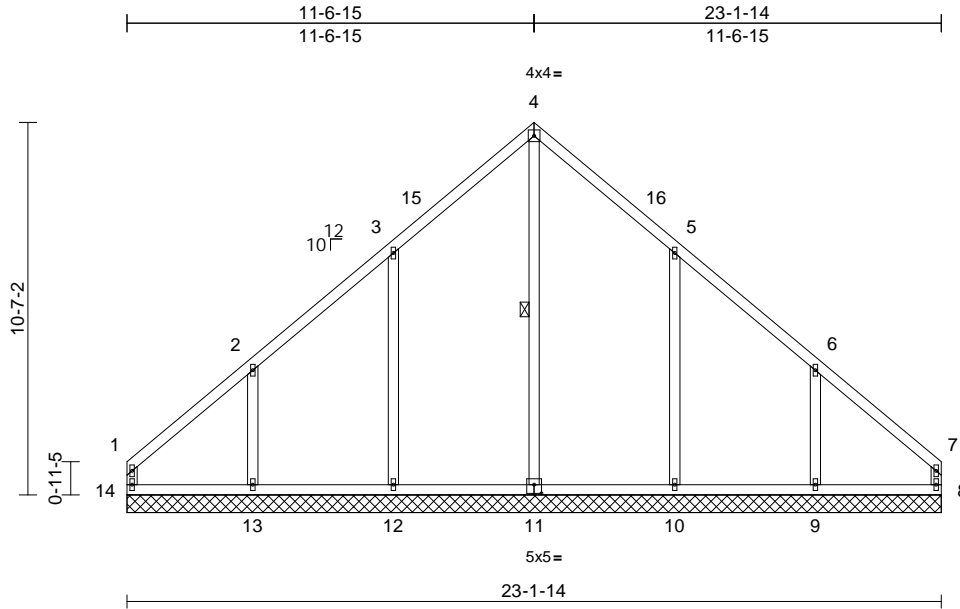
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss V02	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T32352994
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:43
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Page: 1



Scale = 1:65.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 126 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-11

REACTIONS

(size) 8=23-1-14, 9=23-1-14, 10=23-1-14, 11=23-1-14, 12=23-1-14, 13=23-1-14, 14=23-1-14
 Max Horiz 14=-210 (LC 10)
 Max Uplift 8=-6 (LC 9), 9=-82 (LC 12), 10=-64 (LC 12), 12=-64 (LC 12), 13=-82 (LC 12), 14=-19 (LC 8)
 Max Grav 8=218 (LC 17), 9=446 (LC 18), 10=473 (LC 18), 11=306 (LC 17), 12=472 (LC 17), 13=451 (LC 17), 14=235 (LC 18)

FORCES

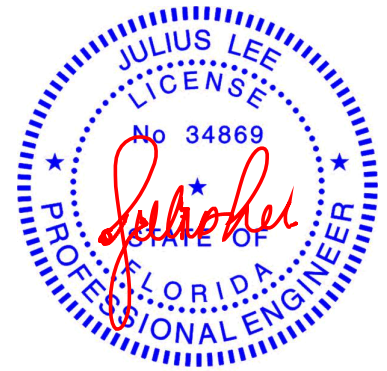
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-14=-176/31, 1-2=-211/122, 2-3=-192/127, 3-4=-217/235, 4-5=-217/228, 5-6=-172/121, 6-7=-189/93, 7-8=-161/19
 BOT CHORD 13-14=-77/116, 12-13=-77/116, 10-12=-77/116, 9-10=-77/116, 8-9=-77/116
 WEBS 4-11=-216/102, 3-12=-271/132, 2-13=-265/126, 5-10=-271/132, 6-9=-263/125

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 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; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-6-15, Exterior(2R) 11-6-15 to 14-6-15, Interior (1) 14-6-15 to 23-0-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 14, 6 lb uplift at joint 8, 64 lb uplift at joint 12, 82 lb uplift at joint 13, 64 lb uplift at joint 10 and 82 lb uplift at joint 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.

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:

December 14,2023

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

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MiTek®

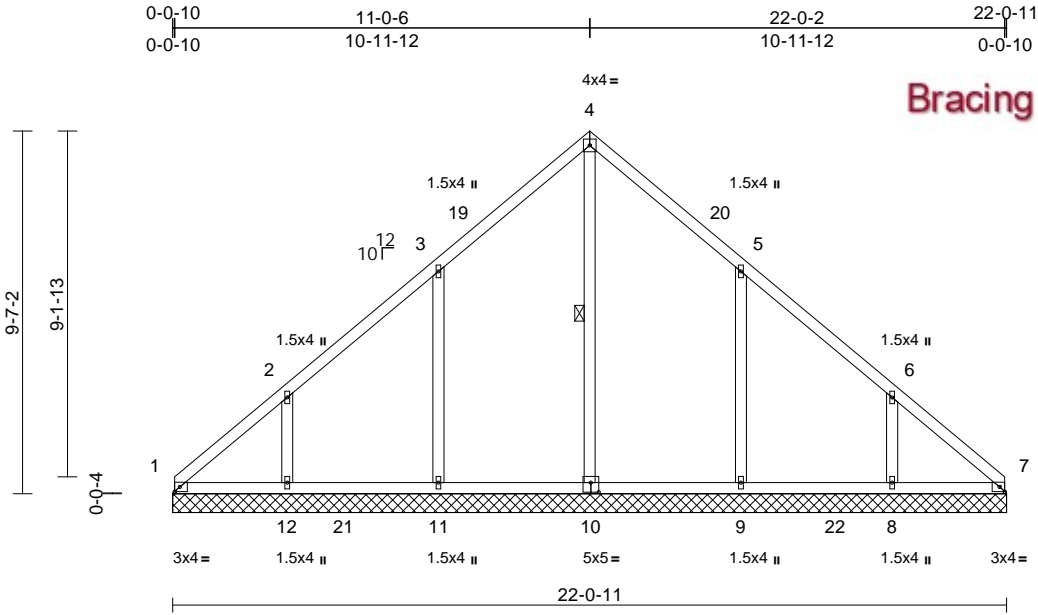
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss V03	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32352995
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:43
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Page: 1



Scale = 1:60.9

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 113 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.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-10

REACTIONS (size)
1=22-0-11, 7=22-0-11, 8=22-0-11,
9=22-0-11, 10=22-0-11,
11=22-0-11, 12=22-0-11,
13=22-0-11, 16=22-0-11
Max Horiz 1=-183 (LC 10), 13=-183 (LC 10)
Max Uplift 1=-22 (LC 10), 8=67 (LC 12),
9=69 (LC 12), 11=69 (LC 12),
12=67 (LC 12), 13=-22 (LC 10)
Max Grav 1=180 (LC 18), 7=152 (LC 17),
8=396 (LC 18), 9=474 (LC 18),
10=351 (LC 17), 11=477 (LC 17),
12=396 (LC 17), 13=180 (LC 18),
16=152 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

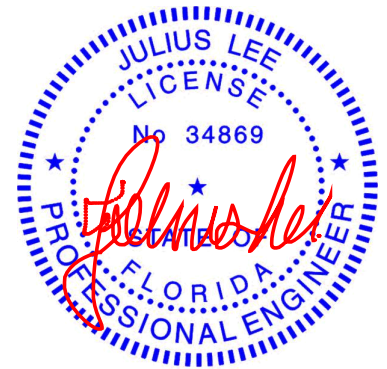
TOP CHORD 1-2=-161/143, 2-3=-179/100, 3-4=-153/141,
4-5=-135/138, 5-6=-137/50, 6-7=-120/89
BOT CHORD 1-12=-62/104, 11-12=-62/104, 9-11=-62/104,
8-9=-62/104, 7-8=-62/104
WEBS 4-10=-155/16, 3-11=-277/138, 2-12=-240/110,
5-9=-277/138, 6-8=-240/110

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) -0-0-10 to
2-11-12, Interior (1) 2-11-12 to 10-11-12, Exterior(2R)
10-11-12 to 13-11-12, Interior (1) 13-11-12 to 22-0-2
zone; cantilever left and right exposed; end vertical left
and right exposed; C-C for members and forces &
MWFRS for reactions shown; Lumber DOL=1.60 plate
grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 22 lb uplift at joint
1, 69 lb uplift at joint 11, 67 lb uplift at joint 12, 69 lb uplift
at joint 9, 67 lb uplift at joint 8 and 22 lb uplift at joint 1.
- 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.

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:

December 14, 2023

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

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MiTek®

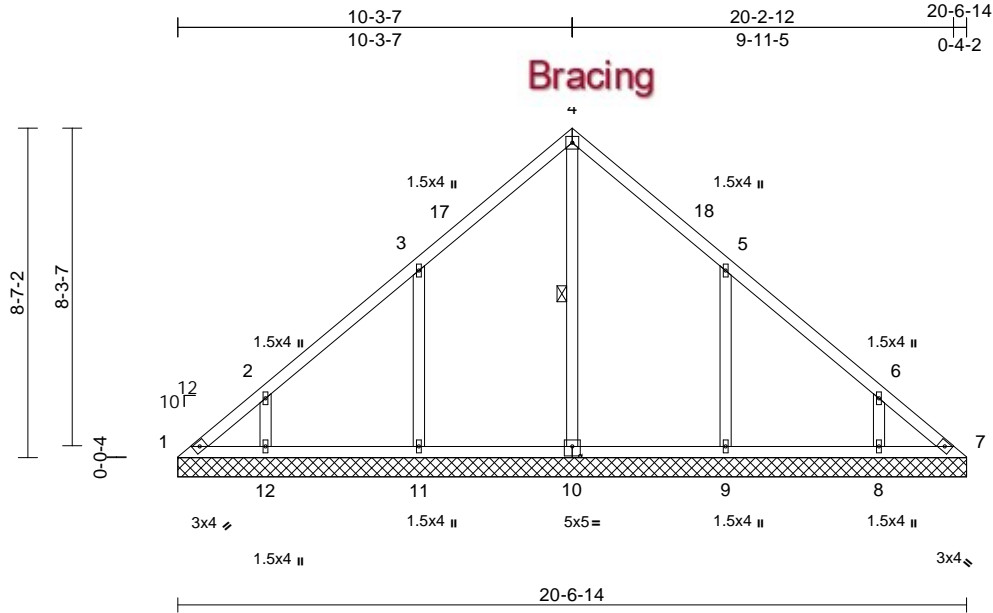
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss V04	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T32352996
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:44
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Page: 1



Scale = 1:60.1

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 99 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.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-10

REACTIONS (size) 1=20-6-14, 7=20-6-14, 8=20-6-14,
 9=20-6-14, 10=20-6-14,
 11=20-6-14, 12=20-6-14
 Max Horiz 1=-167 (LC 10)
 Max Uplift 1=-39 (LC 10), 8=-42 (LC 12),
 9=-73 (LC 12), 11=-73 (LC 12),
 12=-42 (LC 12)
 Max Grav 1=120 (LC 18), 7=90 (LC 17),
 8=334 (LC 18), 9=455 (LC 18),
 10=371 (LC 17), 11=454 (LC 17),
 12=338 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-152/140, 2-3=-164/108, 3-4=-141/134,
 4-5=-123/130, 5-6=-124/65, 6-7=-114/85
 BOT CHORD 1-12=-58/112, 11-12=-58/90, 9-11=-58/90,
 8-9=-58/90, 7-8=-58/90
 WEBS 4-10=-170/3, 3-11=-281/141, 2-12=-218/97,
 5-9=-281/141, 6-8=-216/97

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 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; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) 0-0-5 to
 3-0-5, Interior (1) 3-0-5 to 10-3-12, Exterior(2R) 10-3-12
 to 13-3-12, Interior (1) 13-3-12 to 20-7-2 zone; cantilever
 left and right exposed; end vertical left and right
 exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- 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.
- Building Designer / Project engineer responsible for
 verifying applied roof live load shown covers rain loading
 requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
 chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
 on the bottom chord in all areas where a rectangle
 3-06-00 tall by 2-00-00 wide will fit between the bottom
 chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 39 lb uplift at joint
 1, 73 lb uplift at joint 11, 42 lb uplift at joint 12, 73 lb uplift
 at joint 9 and 42 lb uplift at joint 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.

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:

December 14, 2023

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

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

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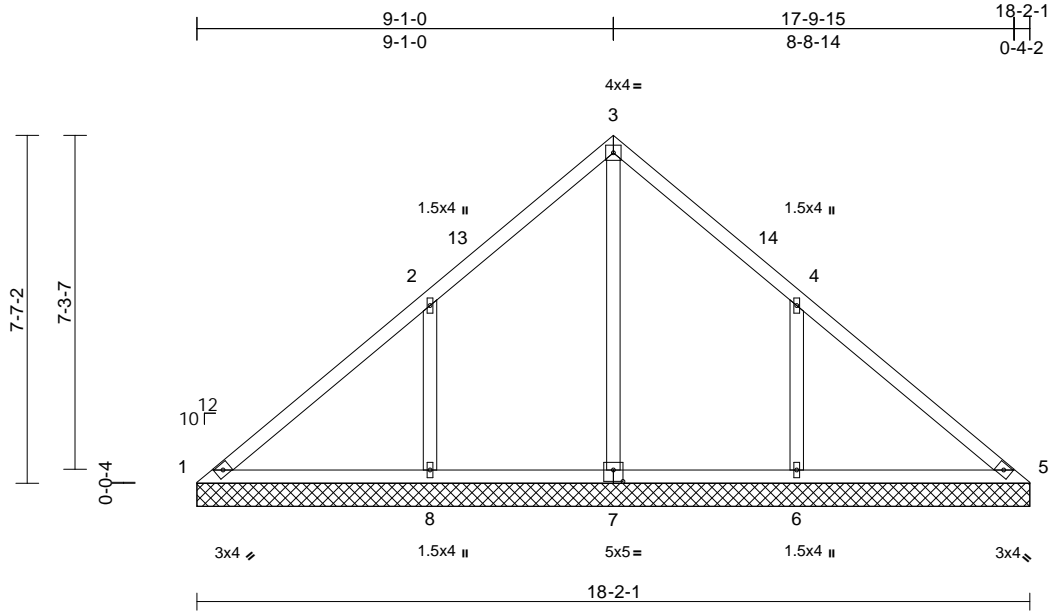
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss V05	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32352997
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:50.3

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 82 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=18-2-1, 5=18-2-1, 6=18-2-1,
7=18-2-1, 8=18-2-1
Max Horiz 1=-147 (LC 10)
Max Uplift 1=-4 (LC 10), 6=-83 (LC 12), 8=-83
(LC 12)
Max Grav 1=112 (LC 18), 5=104 (LC 24),
6=562 (LC 18), 7=540 (LC 17),
8=565 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-121/307, 2-3=-3/222, 3-4=0/198,
4-5=-102/268
BOT CHORD 1-8=-155/116, 6-8=-155/97, 5-6=-155/97
WEBS 3-7=-366/0, 2-8=-334/147, 4-6=-332/146

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-0-5 to
3-0-5, Interior (1) 3-0-5 to 9-1-5, Exterior(2R) 9-1-5 to
12-1-5, Interior (1) 12-1-5 to 18-2-6 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
- 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.

- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 4 lb uplift at joint 1,
83 lb uplift at joint 8 and 83 lb uplift at joint 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.

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:

December 14, 2023

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

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Chesterfield, MO 63017
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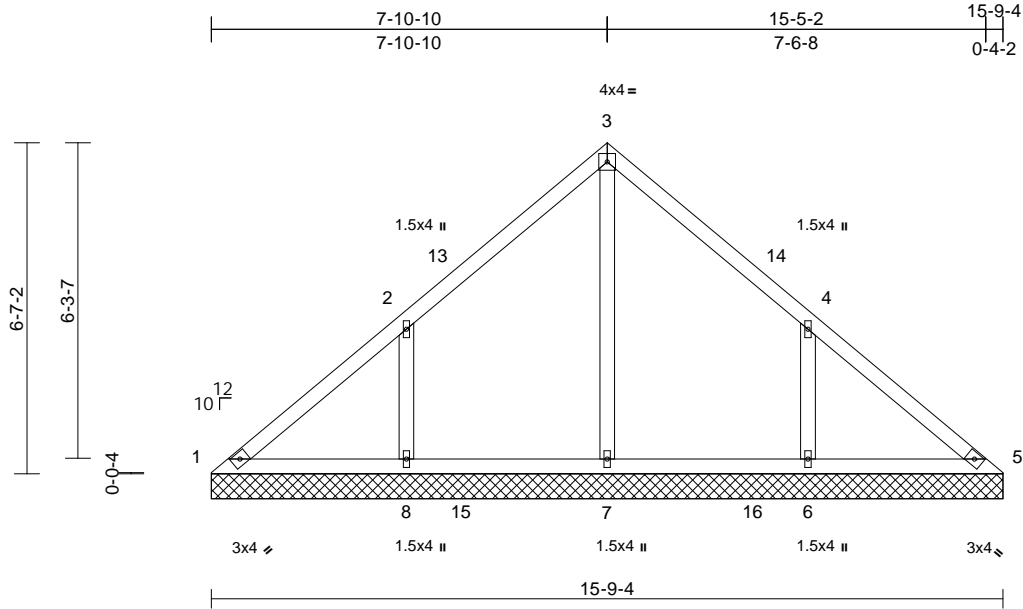
Job 1023-067	Truss V06	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32352998
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:44

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Scale = 1:45.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 69 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=15-9-4, 5=15-9-4, 6=15-9-4,
7=15-9-4, 8=15-9-4
Max Horiz 1=-127 (LC 10)
Max Uplift 6=-69 (LC 12), 8=-69 (LC 12)
Max Grav 1=122 (LC 18), 5=101 (LC 24),
6=461 (LC 18), 7=456 (LC 17),
8=463 (LC 17)

FORCES

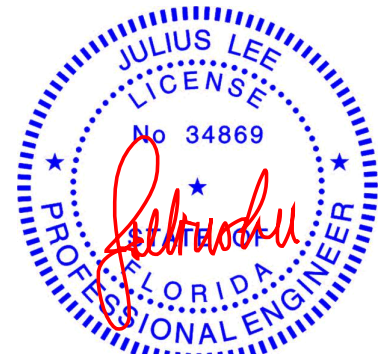
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-145/185, 2-3=-56/131, 3-4=-54/110,
4-5=-116/151
BOT CHORD 1-8=-79/125, 7-8=-79/78, 6-7=-79/78,
5-6=-79/87
WEBS 3-7=-270/0, 2-8=-284/143, 4-6=-282/143

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Exterior(2E) 0-0-5 to
3-0-5, Interior (1) 3-0-5 to 7-10-15, Exterior(2R) 7-10-15
to 10-10-15, Interior (1) 10-10-15 to 15-9-9 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
- 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.

- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 69 lb uplift at joint
8 and 69 lb uplift at joint 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.

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:

December 14, 2023

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

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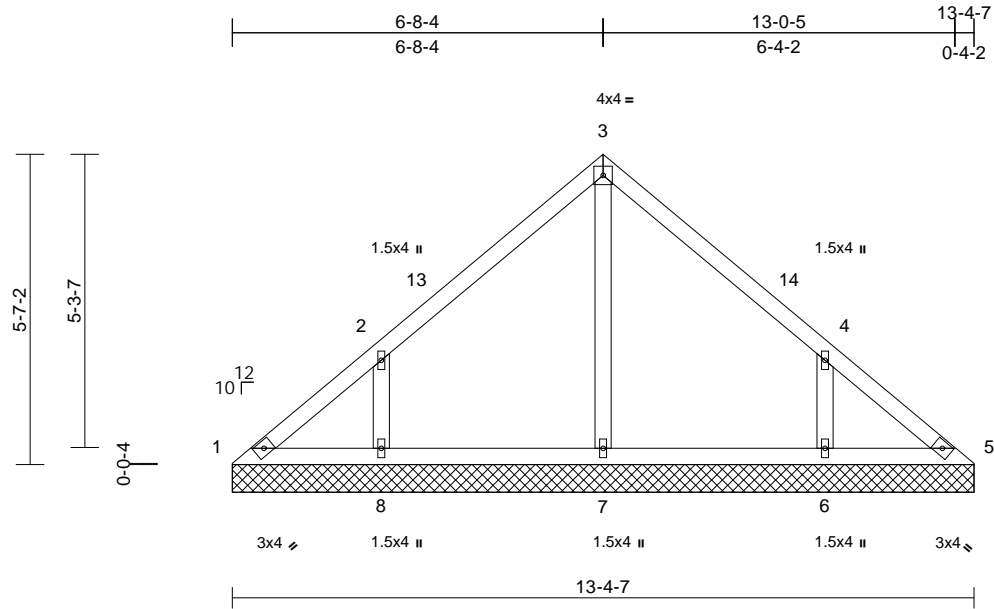
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss V07	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32352999
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:41.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 57 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 1=13-4-7, 5=13-4-7, 6=13-4-7,
7=13-4-7, 8=13-4-7
Max Horiz 1=107 (LC 11)
Max Uplift 1=2 (LC 10), 6=57 (LC 12), 8=57 (LC 12)
Max Grav 1=106 (LC 18), 5=87 (LC 17),
6=326 (LC 18), 7=279 (LC 1),
8=329 (LC 17)

FORCES

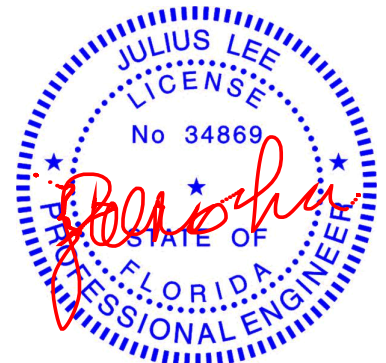
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-131/100, 2-3=-118/100, 3-4=-107/96,
4-5=-106/68
BOT CHORD 1-8=-38/101, 7-8=-38/61, 6-7=-38/61,
5-6=-38/80
WEBS 3-7=-198/0, 2-8=-249/155, 4-6=-248/154

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; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 6-8-8, Exterior(2R) 6-8-8 to 9-8-8, Interior (1) 9-8-8 to 13-4-12 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) 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 4-0-0 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1, 57 lb uplift at joint 8 and 57 lb uplift at joint 6.
- 11) 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.

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:

December 14, 2023

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

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MiTek®

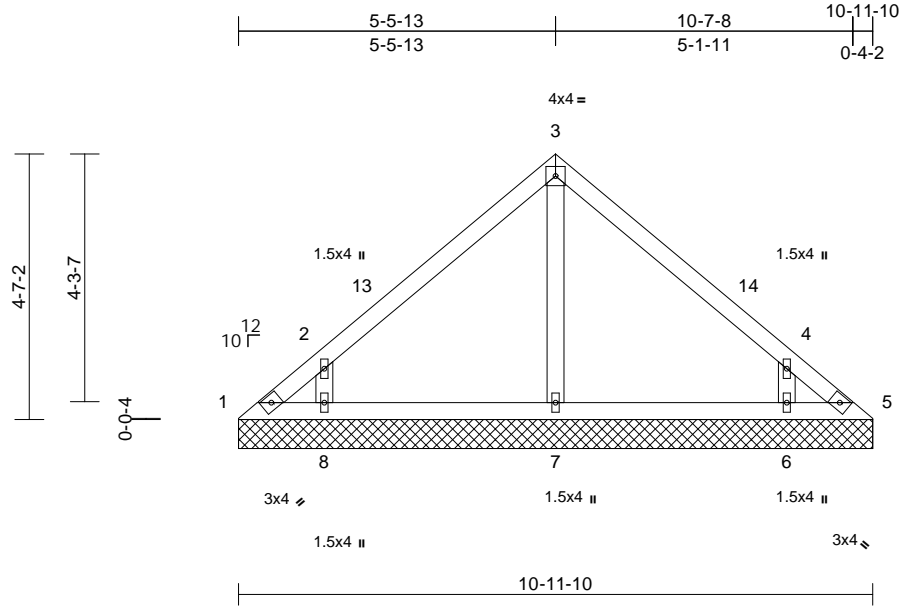
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss V08	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32353000
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:39.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 44 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=10-11-10, 5=10-11-10,
6=10-11-10, 7=10-11-10,
8=10-11-10
Max Horiz 1=-88 (LC 10)
Max Uplift 1=-37 (LC 10), 5=-15 (LC 11),
6=-52 (LC 12), 8=-52 (LC 12)
Max Grav 1=60 (LC 18), 5=43 (LC 17), 6=304
(LC 18), 7=241 (LC 1), 8=308 (LC
17)

FORCES

(lb) - Maximum Compression/Maximum
Tension

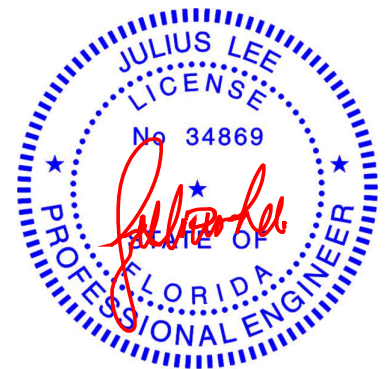
TOP CHORD 1-2=-90/86, 2-3=-144/96, 3-4=-141/92,
4-5=-85/57
BOT CHORD 1-8=-29/64, 7-8=-17/64, 6-7=-17/64,
5-6=-36/64
WEBS 3-7=-154/6, 2-8=-271/215, 4-6=-270/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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; Enclosed;
MWFERS (directional) and C-C Exterior(2E) 0-0-5 to
3-0-5, Interior (1) 3-0-5 to 5-6-2, Exterior(2R) 5-6-2 to
8-6-2, Interior (1) 8-6-2 to 10-11-15 zone; cantilever left
and right exposed; end vertical left and right exposed; C-
C for members and forces & MWFERS for reactions
shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 15 lb uplift at joint 5, 52 lb uplift at joint 8 and 52 lb uplift at joint 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.

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:

December 14, 2023

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

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

MiTek®

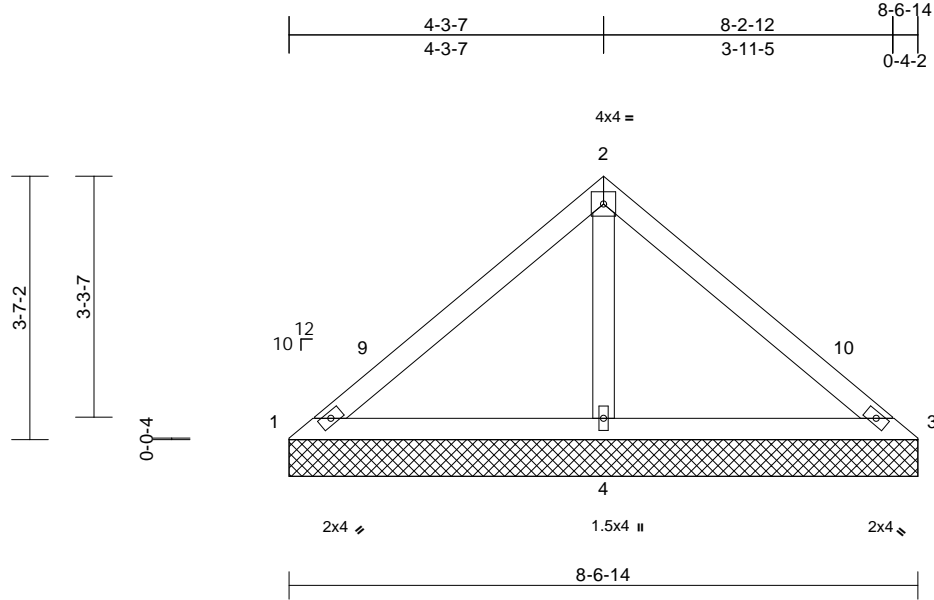
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss V09	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32353001
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:45
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Page: 1



Scale = 1:31.4

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 32 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=8-6-14, 3=8-6-14, 4=8-6-14
Max Horiz 1=-68 (LC 10)
Max Uplift 1=-22 (LC 24), 3=-22 (LC 23),
4=-41 (LC 12)
Max Grav 1=64 (LC 23), 3=64 (LC 24), 4=630
(LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-110/261, 2-3=-106/261
BOT CHORD 1-4=-193/162, 3-4=-193/162
WEBS 2-4=-467/209

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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; Enclosed;
MWFERS (directional) and C-C Exterior(2E) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-3-12, Exterior(2R) 4-3-12 to 7-3-12, Interior (1) 7-3-12 to 8-7-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFERS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1, 22 lb uplift at joint 3 and 41 lb uplift at joint 4.
- 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.

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:

December 14, 2023

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

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

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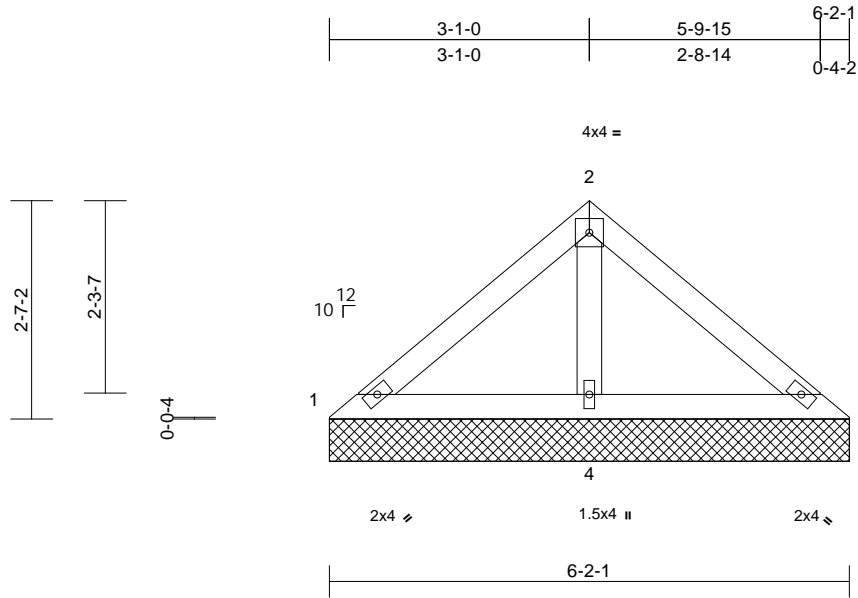
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 1023-067	Truss V10	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional) T32353002
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:46
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Page: 1



Scale = 1:27.3

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 23 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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=6-2-1, 3=6-2-1, 4=6-2-1
Max Horiz 1=-48 (LC 10)
Max Uplift 4=-16 (LC 12)
Max Grav 1=66 (LC 23), 3=66 (LC 24), 4=398 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

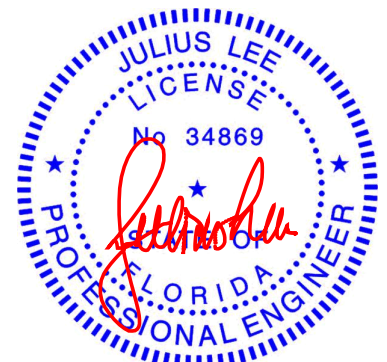
TOP CHORD 1-2=-58/141, 2-3=-56/141
BOT CHORD 1-4=-112/107, 3-4=-112/107
WEBS 2-4=-270/136

NOTES

- Unbalanced roof live loads have been considered for this design.
- 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; Enclosed; 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 4.
- 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.

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:

December 14, 2023

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

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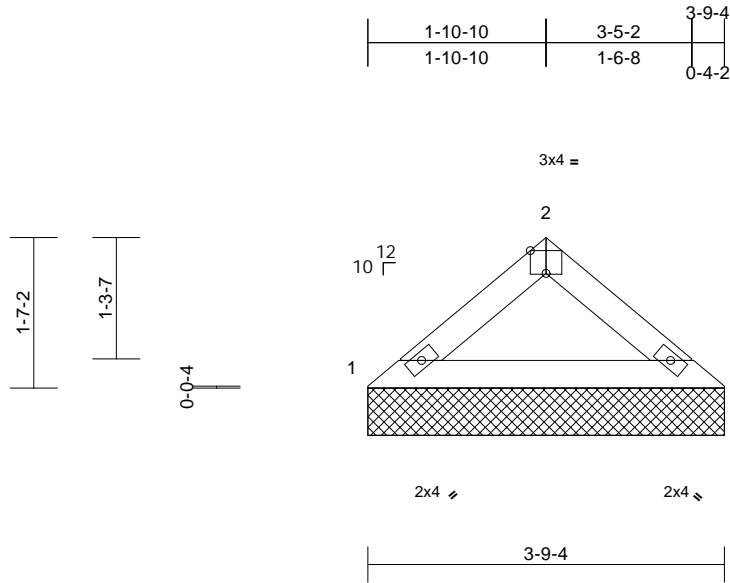
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)	T32353003
1023-067	V11	Valley	1	1		

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

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Page: 1



Scale = 1:24.4

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							Weight: 12 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 3-9-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=3-9-4, 3=3-9-4

Max Horiz 1=28 (LC 11)
 Max Grav 1=151 (LC 1), 3=151 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-201/74, 2-3=-201/73
 BOT CHORD 1-3=-52/152

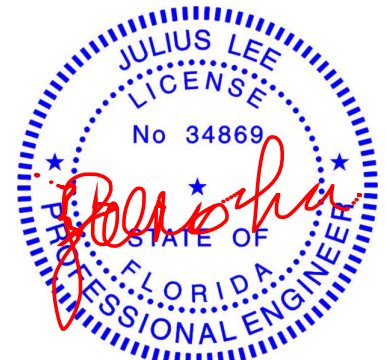
NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

9) All bearings are assumed to be SP No.2 .

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:

December 14, 2023

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

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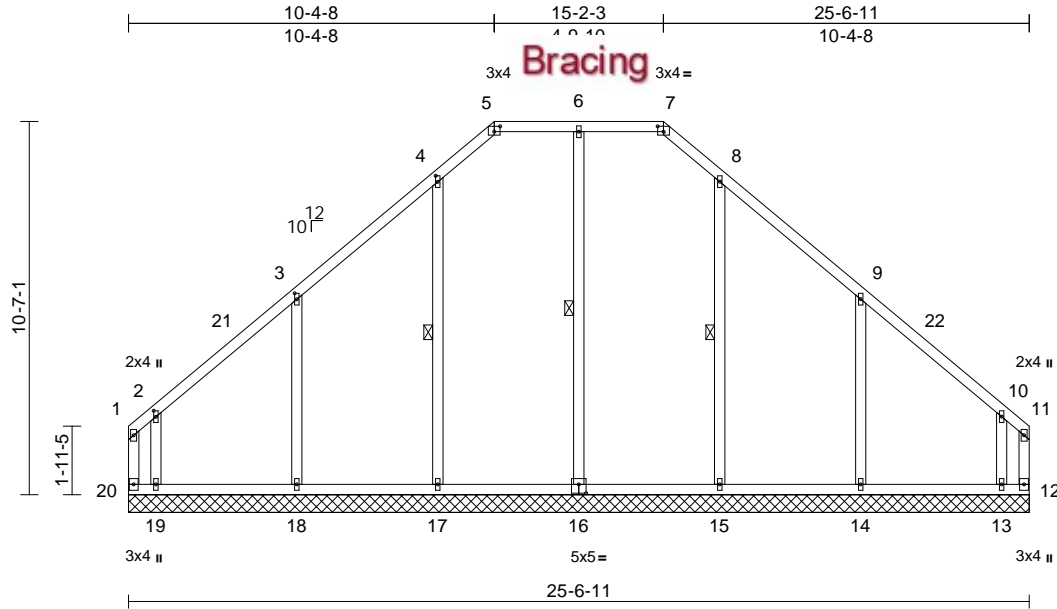
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 1023-067	Truss V12	Truss Type Valley	Qty 1	Ply 1	Job Reference (optional)	T32353004
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.73 S Nov 13 2023 Print: 8.730 S Nov 13 2023 MiTek Industries, Inc. Wed Dec 13 08:11:47
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Page: 1



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Plate Offsets (X, Y): [2:0-2-1,0-0-12], [3:0-2-1,0-0-12], [4:0-2-1,0-0-12], [5:0-2-0,0-1-13], [7:0-2-0,0-1-13], [16:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS							Weight: 153 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 8-15, 4-17

REACTIONS (size)
12=25-6-11, 13=25-6-11,
14=25-6-11, 15=25-6-11,
16=25-6-11, 17=25-6-11,
18=25-6-11, 19=25-6-11,
20=25-6-11
Max Horiz 20=220 (LC 11)
Max Uplift 12=400 (LC 11), 13=247 (LC 8),
14=86 (LC 12), 18=86 (LC 12),
19=267 (LC 9), 20=440 (LC 10)
Max Grav 12=311 (LC 10), 13=531 (LC 18),
14=444 (LC 18), 15=434 (LC 18),
16=387 (LC 19), 17=437 (LC 17),
18=443 (LC 17), 19=555 (LC 17),
20=349 (LC 11)

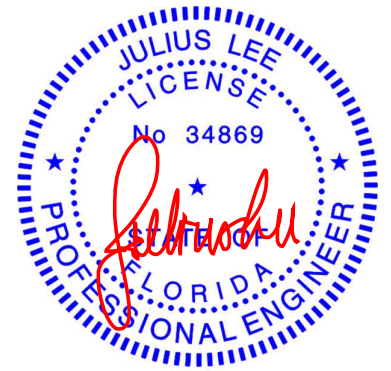
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=-213/244, 1-2=-213/227, 2-3=-161/103,
3-4=-138/169, 4-5=-155/209, 5-6=-123/202,
6-7=-123/202, 7-8=-155/209, 8-9=-128/169,
9-10=-151/94, 10-11=-192/206,
11-12=-194/222
BOT CHORD 19-20=-110/124, 18-19=-110/124,
17-18=-110/124, 15-17=-110/124,
14-15=-110/124, 13-14=-110/124,
12-13=-110/124
WEBS 6-16=-222/0, 8-15=-230/40, 9-14=-272/187,
10-13=-310/242, 4-17=-234/42,
3-18=-272/187, 2-19=-321/249

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 10-4-8, Corner(3R) 10-4-8 to 13-4-8, Exterior(2N) 13-4-8 to 15-2-3, Corner(3R) 15-2-3 to 18-2-3, Exterior(2N) 18-2-3 to 25-4-15 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
- 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 440 lb uplift at joint 20, 400 lb uplift at joint 12, 86 lb uplift at joint 14, 247 lb uplift at joint 13, 86 lb uplift at joint 18 and 267 lb uplift at joint 19.

14) 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.

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:

December 14,2023

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

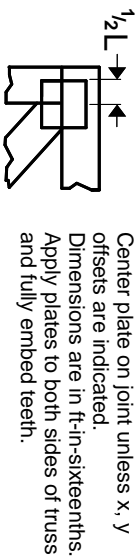
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall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

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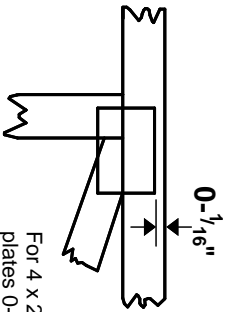
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

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\"/>



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

* Plate location details available in MITtek 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

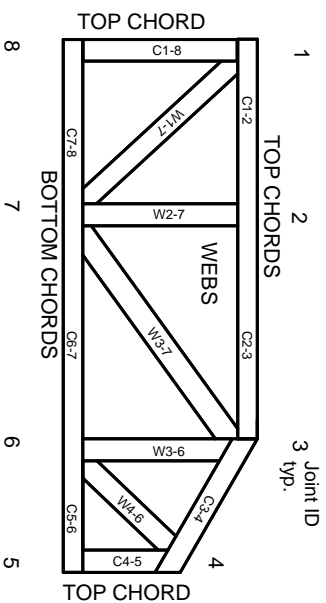


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: 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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

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/TFP 1 section 6.3. These truss designs rely on Lumber values established by others.

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

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MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023