



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

RE: 0126-016 -

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

Site Information:

Customer Info: Lee Holloway Project Name: . Model: .
Lot/Block: 10 Subdivision: River Rise
Address: ., .
City: Columbia County State: FL

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

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 44 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	T39891425	A01	1/22/26	23	T39891447	G02	1/22/26
2	T39891426	A02	1/22/26	24	T39891448	H01	1/22/26
3	T39891427	A03	1/22/26	25	T39891449	H02	1/22/26
4	T39891428	A04	1/22/26	26	T39891450	J01	1/22/26
5	T39891429	A05	1/22/26	27	T39891451	J02	1/22/26
6	T39891430	B01	1/22/26	28	T39891452	J03	1/22/26
7	T39891431	B02	1/22/26	29	T39891453	J05	1/22/26
8	T39891432	C01	1/22/26	30	T39891454	J06	1/22/26
9	T39891433	C02	1/22/26	31	T39891455	J07	1/22/26
10	T39891434	C03	1/22/26	32	T39891456	K01	1/22/26
11	T39891435	CJ01	1/22/26	33	T39891457	K02	1/22/26
12	T39891436	D01	1/22/26	34	T39891458	K03	1/22/26
13	T39891437	E01	1/22/26	35	T39891459	K04	1/22/26
14	T39891438	E02	1/22/26	36	T39891460	M01	1/22/26
15	T39891439	E03	1/22/26	37	T39891461	PB01	1/22/26
16	T39891440	E04	1/22/26	38	T39891462	PB02	1/22/26
17	T39891441	E05	1/22/26	39	T39891463	PB03	1/22/26
18	T39891442	F01	1/22/26	40	T39891464	PB04	1/22/26
19	T39891443	F02	1/22/26	41	T39891465	PB05	1/22/26
20	T39891444	F03	1/22/26	42	T39891466	PB06	1/22/26
21	T39891445	F04	1/22/26	43	T39891467	PB07	1/22/26
22	T39891446	G01	1/22/26	44	T39891468	PB08	1/22/26



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, 2027.

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:

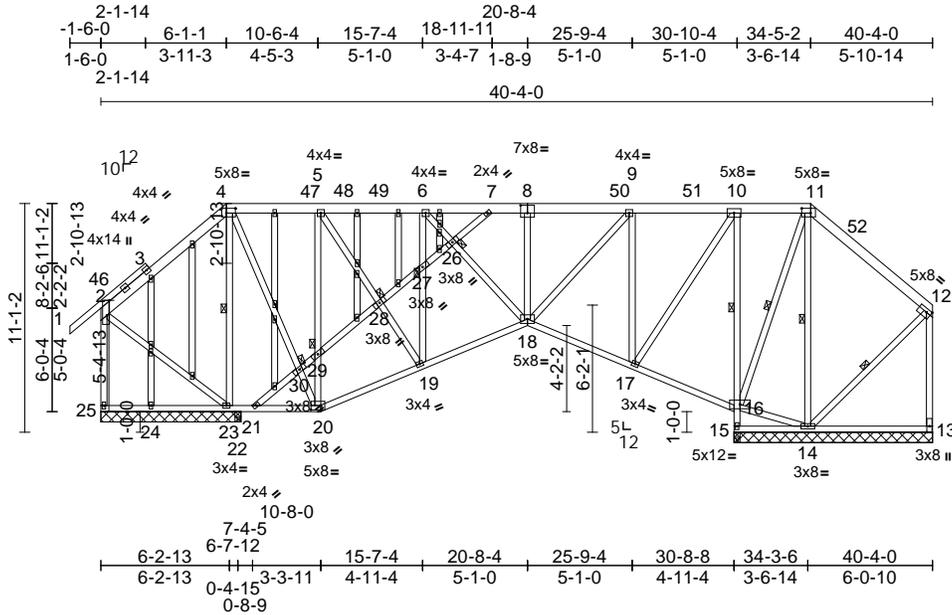
January 22, 2026

Job 0126-016	Truss A01	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Job Reference (optional)	T39891425
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:10
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Page: 1



Scale = 1:111.2

Plate Offsets (X, Y): [2:0-8-12,0-1-8], [4:0-5-4,0-2-12], [8:0-4-0,0-4-8], [11:0-5-4,0-2-12], [12:0-2-12,0-2-0], [20:0-5-12,0-2-8]

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)	-0.03	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.07	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 449 lb	FT = 20%

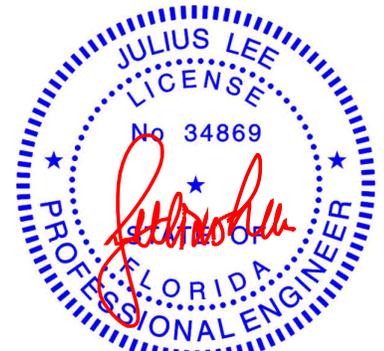
LUMBER		WEBS
TOP CHORD	2x6 SP No.2 *Except* 1-3:2x4 SP No.2	4-23=-1026/24, 4-30=-5/571, 20-30=-5/561, 20-29=-529/28, 5-29=-556/30, 14-16=-261/133, 11-16=-401/71, 11-14=-155/51, 2-23=-389/211, 12-14=-388/43, 8-18=-104/43, 6-26=-53/87, 18-26=-56/88, 5-28=0/296, 19-28=0/296, 19-27=-204/49, 6-27=-210/49, 10-17=-13/835, 9-18=-21/584, 9-17=-771/80, 7-26=-398/40, 26-27=-404/43, 27-28=-413/44, 28-29=-410/46, 29-30=-454/45, 21-30=-413/45
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
OTHERS	2x4 SP No.2	
BRACING		NOTES
TOP CHORD	Structural wood sheathing directly applied, except end verticals.	1) Unbalanced roof live loads have been considered for this design.
BOT CHORD	Rigid ceiling directly applied. Except:	2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-6-6, Zone1 2-6-6 to 6-1-1, Zone2 6-1-1 to 11-9-8, Zone1 11-9-8 to 34-5-2, Zone3 34-5-2 to 40-2-4 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
1 Row at midpt	10-16	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.
WEBS	1 Row at midpt 4-23, 11-16, 11-14, 12-14	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.
JOINTS	1 Brace at Jt(s): 26, 27, 28, 29, 30	5) Provide adequate drainage to prevent water ponding.
REACTIONS	(size)	6) All plates are 2x4 () MT20 unless otherwise indicated.
	13=9-7-8, 14=9-7-8, 15=9-7-8, 22=0-3-8, 23=6-9-8, 24=6-9-8, 25=6-9-8	7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
Max Horiz	25=273 (LC 11)	8) Gable studs spaced at 2-0-0 oc.
Max Uplift	13=399 (LC 23), 22=-24 (LC 12), 23=-8 (LC 9), 25=-255 (LC 24)	9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
Max Grav	13=31 (LC 9), 14=615 (LC 24), 15=1461 (LC 24), 22=705 (LC 23), 23=857 (LC 23), 24=141 (LC 3), 25=87 (LC 9)	
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/52, 2-4=-32/430, 4-5=-86/141, 5-6=-177/99, 6-7=-181/52, 7-9=-454/76, 9-10=-159/173, 10-11=0/404, 11-12=-47/466, 2-25=-72/267, 12-13=-3/451	
BOT CHORD	24-25=-257/218, 23-24=-257/218, 22-23=-328/194, 21-22=-328/194, 20-21=-116/159, 19-20=-60/354, 18-19=-53/524, 17-18=-100/184, 16-17=-451/124, 15-16=-1445/86, 10-16=-947/45, 14-15=-56/0, 13-14=-73/88	

10) * 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.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 25, 399 lb uplift at joint 13, 8 lb uplift at joint 23 and 24 lb uplift at joint 22.

12) 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:

January 22, 2026

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®

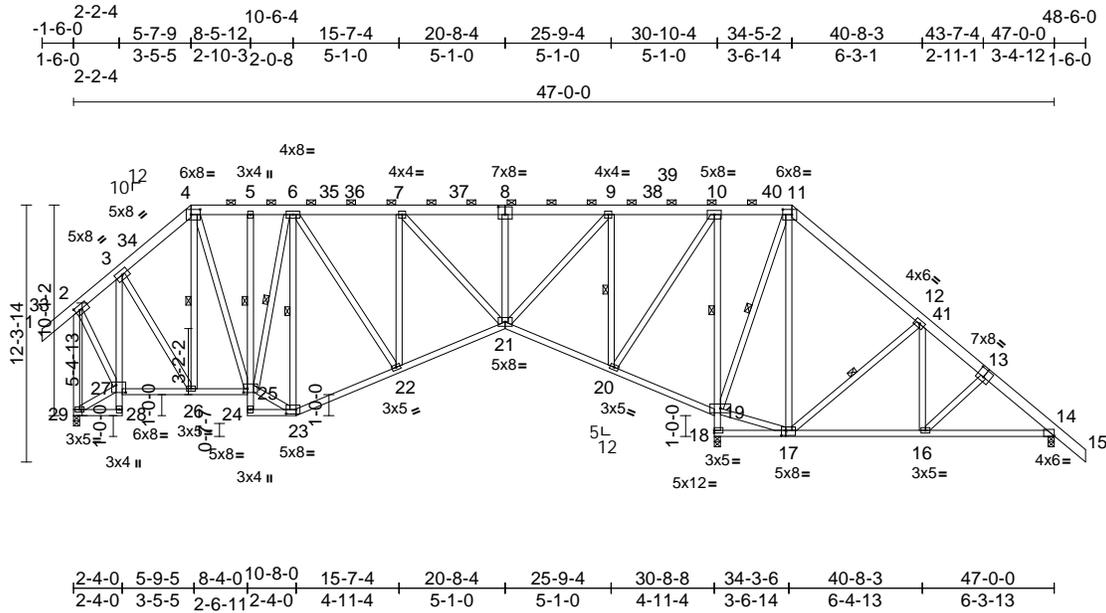
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 0126-016	Truss A02	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional) T39891426
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:109.9

Plate Offsets (X, Y): [2:0-2-8,0-2-8], [4:0-5-4,0-3-0], [8:0-4-0,0-4-8], [11:0-5-4,0-3-0], [13:0-4-0,0-4-8], [14:Edge,0-0-4], [17:0-2-8,0-3-0], [23:0-5-12,0-2-8], [25:0-2-4,0-2-4], [27:0-5-8,0-4-4]

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)	0.04	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.11	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.06	18	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS								Weight: 462 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 end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-11.
BOT CHORD Rigid ceiling directly applied. Except:
1 Row at midpt 5-25, 10-19
WEBS 1 Row at midpt 4-26, 6-25, 6-23, 11-19, 12-17, 9-20

REACTIONS (size)
14=0-3-8, 18=0-3-8, 29=0-3-8
Max Horiz 29=285 (LC 10)
Max Uplift 14=235 (LC 12), 18=52 (LC 12), 29=63 (LC 12)
Max Grav 14=298 (LC 27), 18=2561 (LC 1), 29=1099 (LC 26)

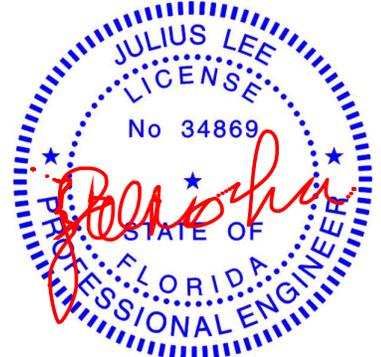
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=529/129, 3-4=712/145, 4-5=623/144, 5-6=622/145, 6-7=783/136, 7-9=672/92, 9-10=74/173, 10-11=0/742, 11-12=0/621, 12-14=119/338, 14-15=0/58, 2-29=1069/33
BOT CHORD 28-29=11/25, 27-28=13/41, 3-27=543/89, 26-27=74/478, 25-26=0/572, 24-25=0/26, 5-25=68/29, 23-24=0/44, 22-23=0/723, 21-22=0/867, 20-21=163/165, 19-20=816/115, 18-19=2539/70, 10-19=1256/0, 16-18=243/0, 14-16=191/62

WEBS
3-26=44/350, 4-26=219/69, 4-25=42/443, 23-25=0/672, 6-25=136/112, 6-23=475/0, 17-19=366/74, 11-19=1129/132, 11-17=199/481, 12-17=420/208, 12-16=92/316, 8-21=301/58, 7-21=184/66, 6-22=0/284, 7-22=192/20, 10-20=0/1160, 9-21=0/1103, 9-20=1111/0, 27-29=240/247, 2-27=0/681, 13-16=115/48

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 5-7-9, Zone2 5-7-9 to 12-3-5, Zone1 12-3-5 to 34-5-2, Zone2 34-5-2 to 41-0-14, Zone1 41-0-14 to 48-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 18, 63 lb uplift at joint 29 and 235 lb uplift at joint 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.

9) 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:

January 22, 2026

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).

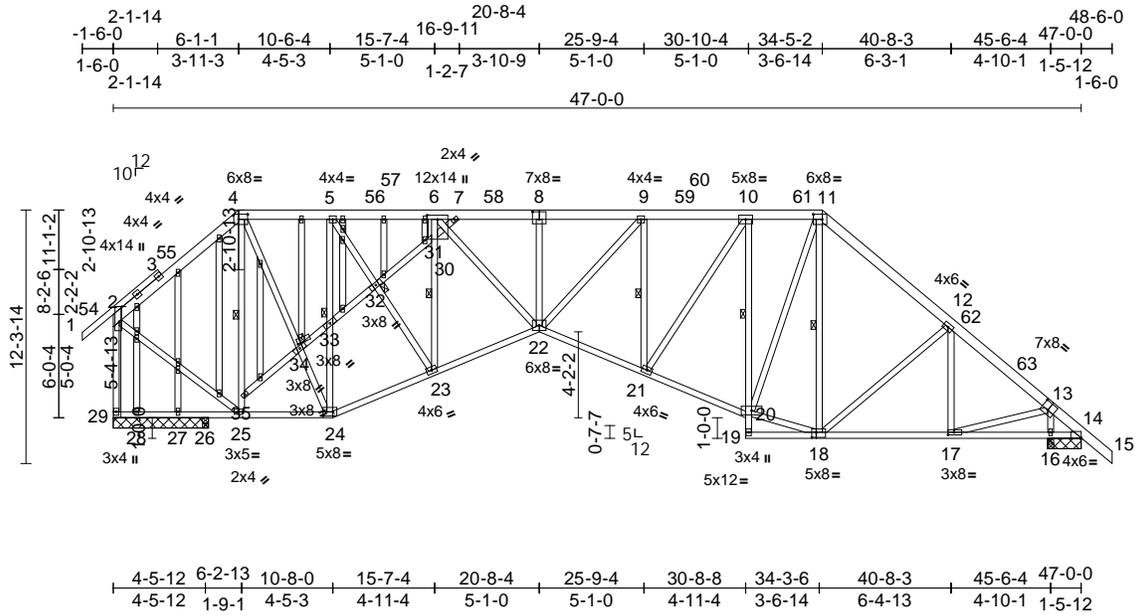
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss A05	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Job Reference (optional)	T39891429
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:14
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Scale = 1:111.3

[2:0-8-12,0-1-8], [4:0-5-4,0-3-0], [6:0-2-8,0-6-0], [8:0-4-0,0-4-8], [11:0-5-4,0-3-0], [13:0-4-0,0-4-8], [14:Edge,0-0-4], [17:0-3-8,0-1-8], [18:0-2-8,0-3-0], [24:0-5-12,0-2-8],
 Plate Offsets (X, Y): [34:0-1-12,0-0-4]

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	0.53	Vert(LL)	-0.21	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.43	21-22	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.25	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 502 lb	FT = 20%

LUMBER
 TOP CHORD 2x6 SP No.2 *Except* 1-3:2x4 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. Except:
 1 Row at midpt
 WEBS 1 Row at midpt 4-25, 11-18, 6-23, 9-21
 JOINTS 1 Brace at Jt(s): 32, 33, 34

REACTIONS (size)
 14=1-7-8, 16=0-3-8, 26=0-3-8, 27=4-7-8, 28=4-7-8, 29=4-7-8
 Max Horiz 29=-281 (LC 10)
 Max Uplift 14=746 (LC 23), 27=-368 (LC 1), 28=-7 (LC 12), 29=-59 (LC 12)
 Max Grav 14=-109 (LC 12), 16=2693 (LC 1), 26=673 (LC 1), 27=18 (LC 12), 28=161 (LC 17), 29=1485 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/52, 2-4=-1098/135, 4-5=-1243/139, 5-6=-2039/83, 6-7=-3105/1, 7-9=-3381/0, 9-10=-2458/76, 10-11=-1711/125, 2-29=-1528/133, 11-12=-1821/134, 12-14=-1689/1039, 14-15=0/58
 BOT CHORD 28-29=-235/209, 27-28=-235/209, 26-27=-235/209, 25-26=-235/209, 24-25=0/927, 23-24=0/1528, 22-23=0/2416, 21-22=0/2675, 20-21=0/1863, 19-20=0/36, 10-20=-1327/0, 17-19=-8/1217, 16-17=-717/16, 14-16=-716/61

WEBS 25-35=-927/33, 4-35=-797/31, 4-34=0/1205, 24-34=0/1193, 24-33=-1491/0, 5-33=-1524/0, 18-20=0/1330, 11-20=0/1210, 11-18=-386/0, 12-18=-39/238, 12-17=-465/54, 2-25=0/1047, 8-22=-221/60, 6-30=0/1714, 22-30=0/1705, 5-32=0/1471, 23-32=0/1467, 23-31=-1453/0, 6-31=-1446/0, 10-21=0/1339, 9-22=0/1365, 9-21=-1354/0, 13-17=0/2014, 13-16=-2504/3, 7-30=-369/0, 30-31=-242/4, 31-32=-230/4, 32-33=-201/5, 33-34=-254/4, 34-35=-204/4

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=47ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-2-6, Zone1 3-2-6 to 6-1-1, Zone2 6-1-1 to 12-8-13, Zone1 12-8-13 to 34-5-2, Zone2 34-5-2 to 41-0-14, Zone1 41-0-14 to 48-6-0 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 2x4 (||) MT20 unless otherwise indicated.
 - 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 59 lb uplift at joint 29, 368 lb uplift at joint 27, 7 lb uplift at joint 28, 746 lb uplift at joint 14 and 746 lb uplift at joint 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:

January 22, 2026

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)

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

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
0126-016	B01	Piggyback Base Girder	1	1	T39891430

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

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:14
 ID:KpViNoz_7TZZt937M028XDzVqYJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f

Page: 2

Vert: 1-2=-60, 2-5=-60, 5-8=-60, 8-11=-60, 30-63=-20

Concentrated Loads (lb)

Vert: 70=-136 (B), 71=-136 (B), 72=-136 (B),
 73=-136 (B), 74=-136 (B)

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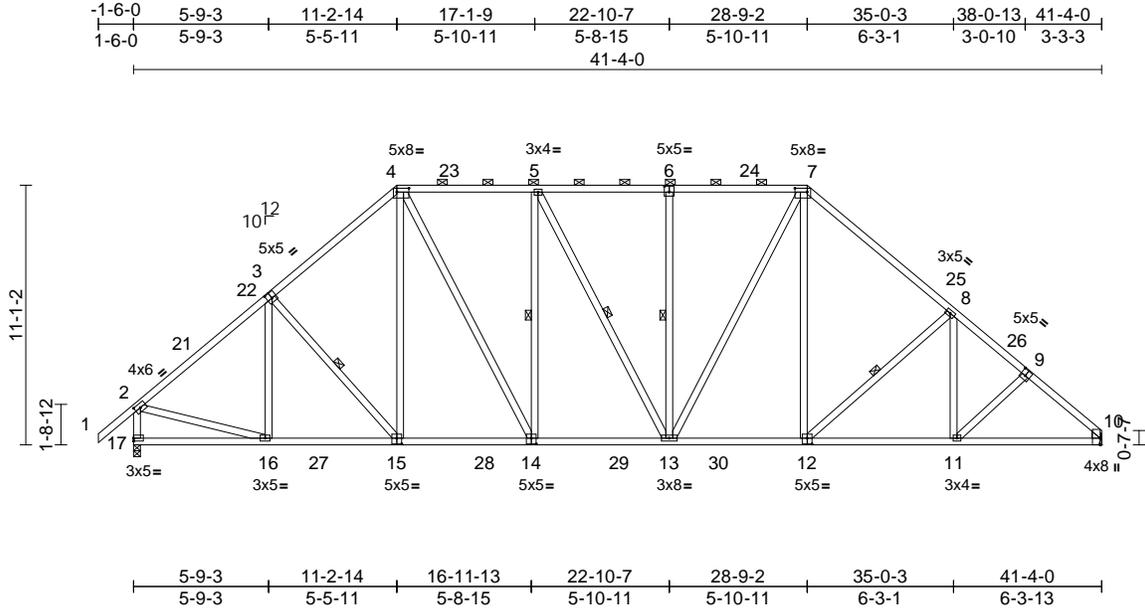
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 0126-016	Truss B02	Truss Type Piggyback Base	Qty 8	Ply 1	Job Reference (optional) T39891431
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:15
ID:2tEUMWcYs9VcUzkNO851Vzvj6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRCDoi7J4zJC?f

Page: 1



Scale = 1:97.9
Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-2-8,0-3-0], [4:0-6-4,0-2-0], [6:0-2-8,0-3-0], [7:0-6-4,0-2-0], [9:0-2-8,0-3-0], [10:0-3-8,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]

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)	-0.13	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.23	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 310 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-10 max.): 4-7.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-15, 8-12, 5-14, 5-13, 6-13

REACTIONS (size) 10= Mechanical, 17=0-3-8
Max Horiz 17=249 (LC 10)
Max Uplift 17=38 (LC 12)
Max Grav 10=1908 (LC 18), 17=2022 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-4=-2104/132, 4-5=-1800/136, 5-7=-1838/138, 7-8=-2171/128, 8-10=-2552/74, 2-17=-1926/98
BOT CHORD 16-17=-185/295, 13-16=0/1870, 11-13=0/1855, 10-11=-20/1862
WEBS 3-16=-223/51, 3-15=-177/103, 4-15=-12/375, 7-12=0/573, 8-12=-465/98, 8-11=0/220, 2-16=0/1476, 5-14=-486/72, 4-14=-2/762, 5-13=-36/131, 6-13=-365/71, 7-13=0/619, 9-11=-26/63

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-7-10, Zone1 2-7-10 to 11-2-14, Zone2 11-2-14 to 17-1-9, Zone1 17-1-9 to 28-9-2, Zone2 28-9-2 to 34-7-5, Zone1 34-7-5 to 41-4-0 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
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 17.
- 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:

January 22, 2026

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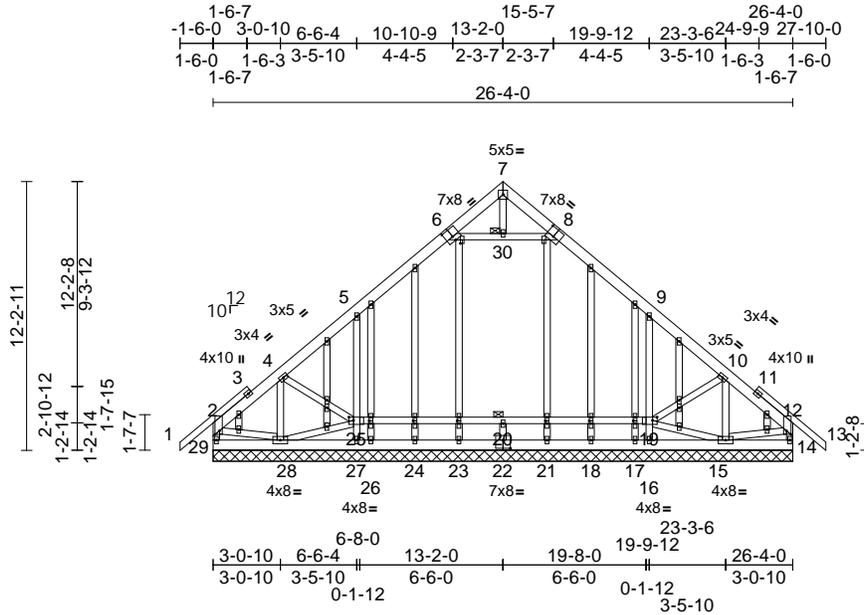
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss C01	Truss Type Attic Supported Gable	Qty 1	Ply 1	Job Reference (optional) T39891432
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:15
ID:JBkxdTKDNO_5wQkksb5nfHwz5PL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwKDCoi7J4zJC?f

Page: 1



Scale = 1:104.1

Plate Offsets (X, Y): [2:0-2-0,0-2-8], [6:0-4-0,0-4-8], [6:0-2-0,0-2-8], [8:0-4-0,0-4-8], [12:0-2-0,0-2-8], [19:0-2-8,0-1-12], [22:0-4-0,0-4-8], [25:0-2-8,0-1-12], [31:0-1-8,0-1-0], [32:0-1-8,0-1-0], [34:0-1-8,0-1-0], [41:0-1-8,0-1-0], [43:0-1-8,0-1-0], [45:0-1-8,0-1-0]

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	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	FBC2023/TPI2014	Matrix-AS							Weight: 322 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-3,11-13:2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 25-19:2x4 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.
JOINTS 1 Brace at Jt(s): 30, 20

REACTIONS (size)
14=26-4-0, 15=26-4-0, 16=26-4-0, 17=26-4-0, 18=26-4-0, 21=26-4-0, 22=26-4-0, 23=26-4-0, 24=26-4-0, 26=26-4-0, 27=26-4-0, 28=26-4-0, 29=26-4-0
Max Horiz 29=264 (LC 10)
Max Uplift 16=65 (LC 12), 27=65 (LC 12)
Max Grav 14=532 (LC 1), 15=390 (LC 18), 16=498 (LC 19), 17=56 (LC 16), 18=126 (LC 16), 21=118 (LC 16), 22=622 (LC 16), 23=118 (LC 16), 24=126 (LC 16), 26=56 (LC 16), 27=510 (LC 18), 28=390 (LC 19), 29=532 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-29=-494/13, 1-2=0/52, 2-4=-423/0, 4-5=-594/0, 5-7=-659/76, 7-9=-659/76, 9-10=-591/0, 10-12=-409/0, 12-13=0/52, 12-14=-494/11
BOT CHORD 28-29=-241/237, 27-28=0/256, 26-27=0/255, 24-26=0/255, 23-24=0/255, 21-23=0/255, 18-21=0/255, 17-18=0/255, 16-17=0/255, 15-16=0/256, 14-15=-18/34, 20-25=0/205, 19-20=0/205

WEBS
16-19=-412/142, 9-19=-369/121, 25-27=-425/144, 5-25=-371/121, 6-30=-291/118, 8-30=-291/118, 7-30=-10/103, 20-22=-502/0, 4-28=-399/0, 4-25=0/209, 10-15=-399/0, 12-15=0/321, 2-28=0/324, 25-28=-75/83, 15-19=-6/23, 10-19=0/220

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2x4 (||) 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 BCCL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-30, 8-30

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 16 and 65 lb uplift at joint 27.
- 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.
- 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:

January 22, 2026

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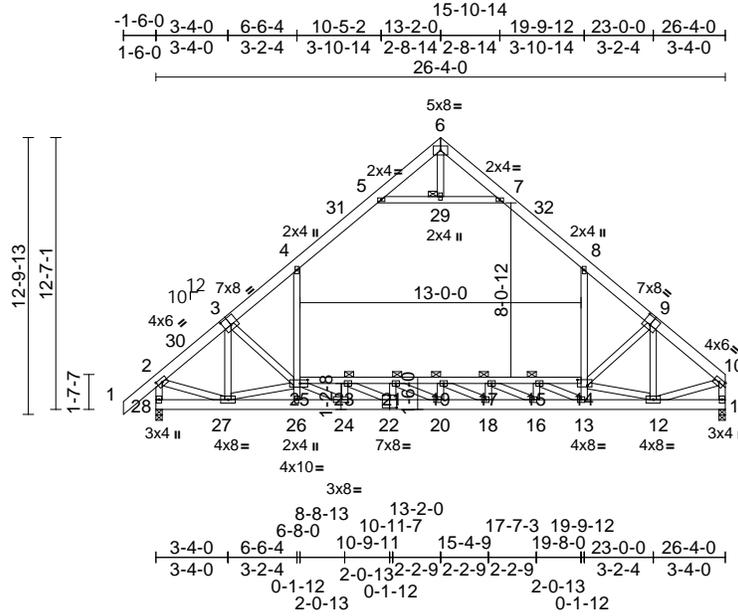
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss C03	Truss Type Attic	Qty 4	Ply 1	Job Reference (optional) T39891434
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:16
ID:EPeHVecGxD56rqU_0ShMD0zw5RR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:106

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [3:0-4-0,0-4-8], [9:0-4-0,0-4-8], [14:0-5-8,0-3-4], [22:0-4-0,0-4-8], [24:0-3-8,0-1-8], [25:0-4-4,0-2-0]

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	0.59	Vert(LL)	-0.23	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.43	19	>719	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS		Attic	-0.09	14-25	>999	360	Weight: 264 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP 2400F 2.0E *Except* 1-3,9-10:2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 25-14:2x4 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.
JOINTS 1 Brace at Jt(s): 29, 23, 21, 19, 17, 15

REACTIONS
(size) 11=0-3-8, 28=0-3-8
Max Horiz 28=269 (LC 11)
Max Grav 11=1661 (LC 19), 28=1750 (LC 18)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-28=-1705/0, 10-11=-1611/0, 1-2=0/63, 2-4=-1876/0, 4-5=-1218/0, 5-6=-24/300, 6-7=-23/299, 7-8=-1217/0, 8-10=-1907/0
BOT CHORD 27-28=-230/255, 26-27=0/1890, 24-26=0/1892, 20-24=0/3476, 18-20=0/3665, 16-18=0/3403, 13-16=0/2735, 12-13=0/1803, 11-12=-16/55, 23-25=-1642/0, 21-23=-2340/0, 19-21=-2673/0, 17-19=-2411/0, 15-17=-1685/0, 14-15=-778/234
WEBS 13-14=0/772, 8-14=0/981, 25-26=0/140, 4-25=0/963, 5-29=-1537/0, 7-29=-1537/0, 6-29=0/115, 2-27=0/1357, 10-12=0/1351, 3-27=-489/0, 25-27=-487/162, 3-25=-313/86, 9-12=-501/0, 12-14=-528/173, 9-14=-327/100, 24-25=0/1422, 23-24=-670/0, 22-23=0/878, 21-22=-388/0, 20-21=-21/381, 19-20=-135/51, 18-19=-354/31, 17-18=0/208, 16-17=-905/0, 15-16=0/392, 13-15=-1389/0

- Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-2-0, Zone2 13-2-0 to 17-4-15, Zone1 17-4-15 to 26-2-4 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
- 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 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.
- Ceiling dead load (10.0 psf) on member(s). 5-29, 7-29, 4-5, 7-8
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-25, 21-23, 19-21, 17-19, 15-17, 14-15
- 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.
- 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:

January 22,2026

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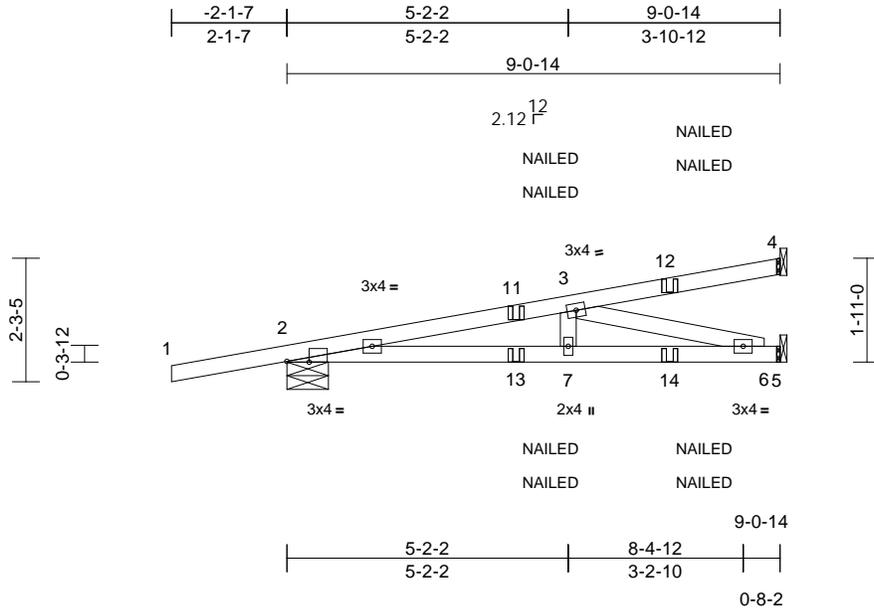
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss CJ01	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Job Reference (optional) T39891435
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:17
ID:AWDH?Nb_s0J_KNQRd7_zw4bV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.2

Plate Offsets (X, Y): [2:0-4-15,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	0.36	Vert(LL)	-0.04	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 37 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-9-2, 4= Mechanical, 5= Mechanical
Max Horiz 2=71 (LC 4)
Max Uplift 2=-107 (LC 4), 4=-41 (LC 4)
Max Grav 2=541 (LC 1), 4=128 (LC 1), 5=339 (LC 13)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-1177/67, 3-4=-32/18
BOT CHORD 2-7=-98/1160, 6-7=-98/1160, 5-6=0/0
WEBS 3-7=0/248, 3-6=-1198/102

NOTES

- 1) Wind: ASCE 7-22; 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; Partially 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) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 4 and 107 lb uplift at joint 2.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 12=-76 (F=-38, B=-38), 13=-15 (F=-7, B=-7), 14=-66 (F=-33, B=-33)



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

January 22, 2026

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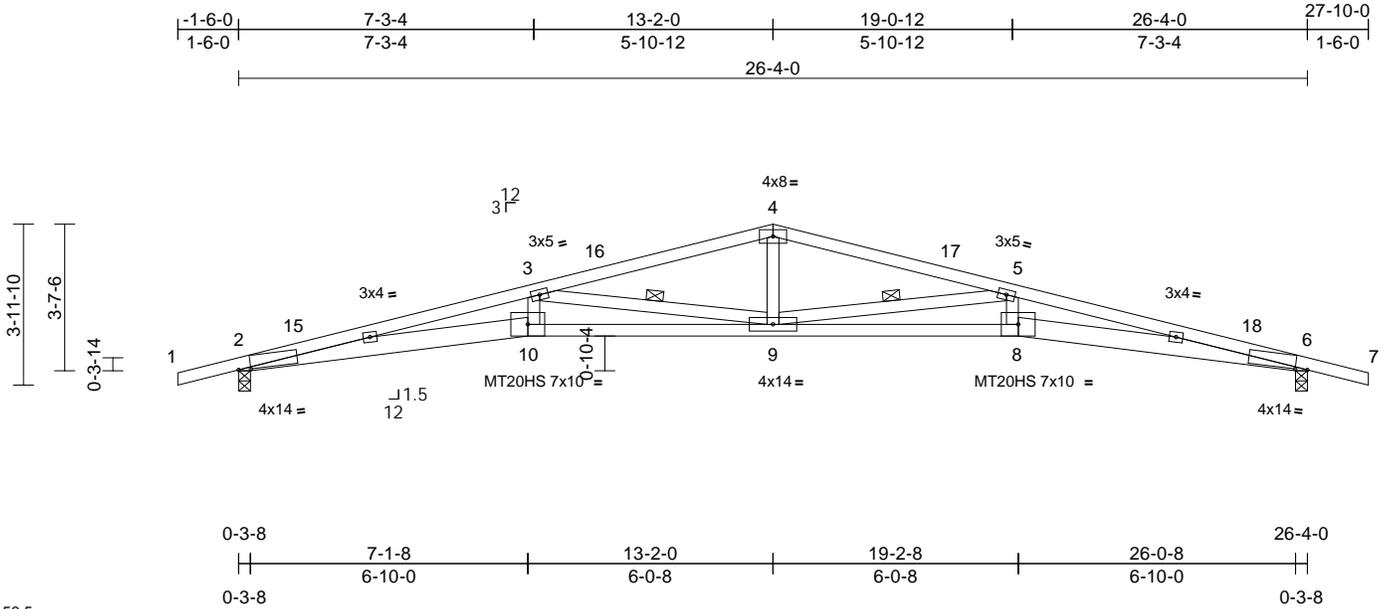
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss D01	Truss Type Roof Special	Qty 7	Ply 1	Job Reference (optional) T39891436
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:17
ID:F3RyhkL40IMFCJ1xkRZIn8zx5Yw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:56.5
Plate Offsets (X, Y): [2:0-3-10,0-0-3], [6:0-3-10,0-0-3]

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	0.64	Vert(LL)	-0.59	8-9	>533	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-1.20	8-9	>261	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.40	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS								Weight: 119 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E *Except* 10-8:2x4 SP No.1
WEBS 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-9, 3-9

REACTIONS (size) 2=0-3-8, 6=0-3-8
Max Horiz 2=-28 (LC 9)
Max Uplift 2=-39 (LC 12), 6=-39 (LC 12)
Max Grav 2=1140 (LC 1), 6=1140 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/24, 2-3=-5507/244, 3-4=-2973/158, 4-5=-2973/153, 5-6=-5507/254, 6-7=0/24
BOT CHORD 2-10=-183/5366, 9-10=-186/5208, 8-9=-209/5208, 6-8=-206/5366
WEBS 4-9=0/1003, 5-9=-2380/150, 5-8=0/761, 3-9=-2380/145, 3-10=0/761

- 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.
- Bearing at joint(s) 2, 6 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 39 lb uplift at joint 2 and 39 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 13-2-0, Zone2 13-2-0 to 17-4-15, Zone1 17-4-15 to 27-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 MT20 plates unless otherwise indicated.



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

January 22, 2026

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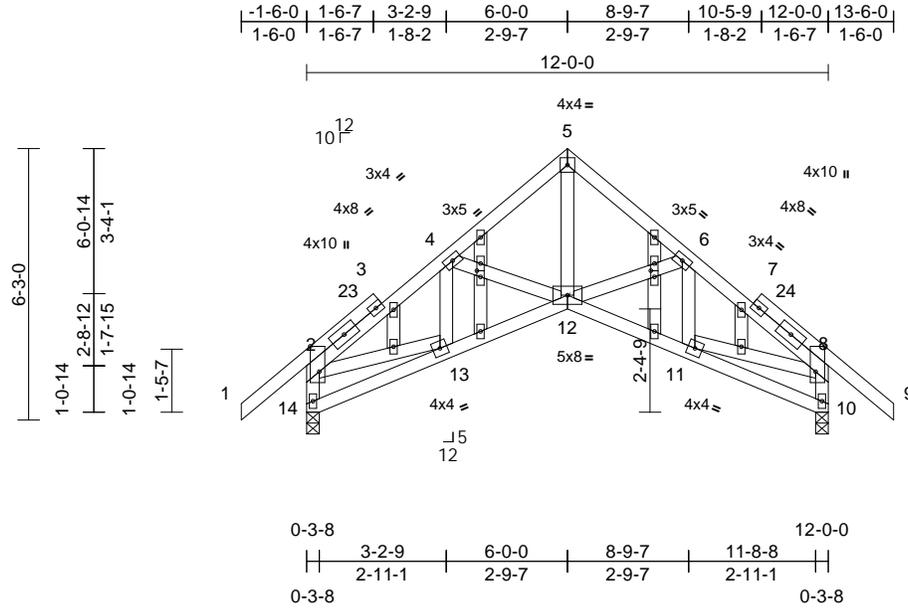
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss E01	Truss Type Scissor Supported Gable	Qty 1	Ply 1	Job Reference (optional) T39891437
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:17
ID:znuZHM0ib8nLwzFi6C5N28zw4dG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?

Page: 1



Scale = 1:52.7

Plate Offsets (X, Y): [2:0-7-0,Edge], [8:0-7-0,Edge], [15:0-1-11,0-1-0], [21:0-1-11,0-1-0]

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	0.18	Vert(LL)	-0.01	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.03	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 95 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) 10=0-3-8, 14=0-3-8
- Max Horiz 14=146 (LC 11)
- Max Uplift 10=38 (LC 12), 14=38 (LC 12)
- Max Grav 10=567 (LC 1), 14=567 (LC 1)

FORCES

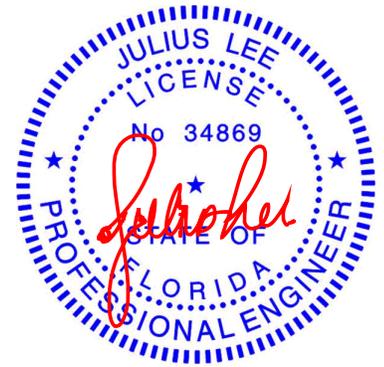
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 2-14=-540/181, 1-2=0/56, 2-4=-665/87, 4-5=-570/65, 5-6=-570/75, 6-8=-665/77, 8-9=0/56, 8-10=-540/194
- BOT CHORD 13-14=-135/175, 12-13=0/592, 11-12=0/518, 10-11=-6/63
- WEBS 5-12=-8/514, 2-13=0/451, 8-11=0/451, 4-12=-124/124, 6-12=-128/129, 6-11=-94/26, 4-13=-94/31

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0 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 2x4 (||) 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.
- Bearing at joint(s) 14, 10 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 38 lb uplift at joint 14 and 38 lb uplift at joint 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.

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:

January 22, 2026

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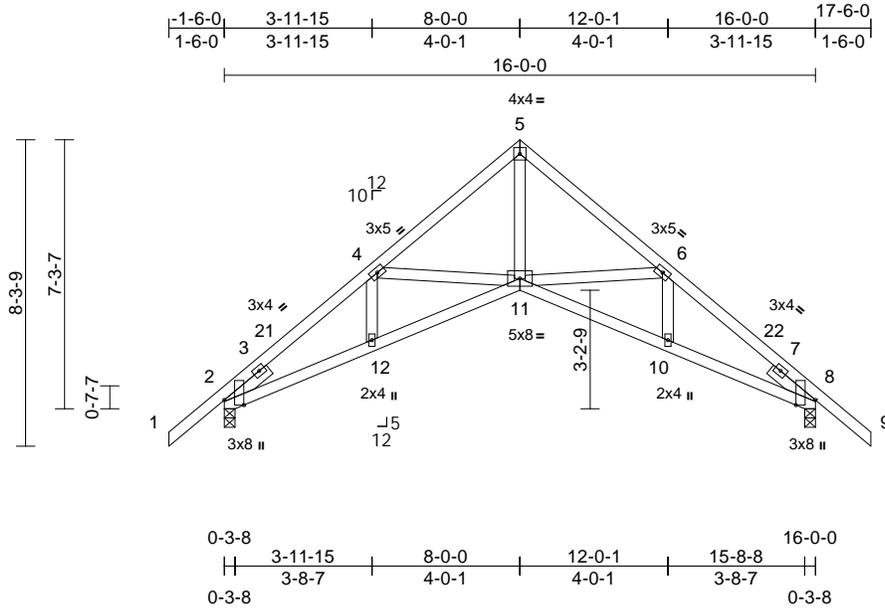
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss E03	Truss Type Scissor	Qty 1	Ply 1	Job Reference (optional) T39891439
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:18
ID:3Vov3Rlaa?QGROYTRSzcRizw4gn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC7f

Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [2:0-1-11,Edge], [8:0-1-11,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	0.23	Vert(LL)	-0.05	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.10	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 90 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, Right 2x4 SP No.2 -- 1-6-0

BRACING

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

REACTIONS

(size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=157 (LC 11)
 Max Uplift 2=-36 (LC 12), 8=-36 (LC 12)
 Max Grav 2=730 (LC 1), 8=730 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/58, 2-4=-1240/25, 4-5=-962/16, 5-6=-962/0, 6-8=-1240/40, 8-9=0/58
 BOT CHORD 2-12=0/1042, 11-12=0/1066, 10-11=0/990, 8-10=0/964
 WEBS 5-11=0/896, 4-11=-240/149, 4-12=0/110, 6-11=-250/145, 6-10=0/110

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 12-0-1, Zone1 12-0-1 to 17-6-0 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.
- Bearing at joint(s) 2, 8 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 36 lb uplift at joint 2 and 36 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:

January 22, 2026

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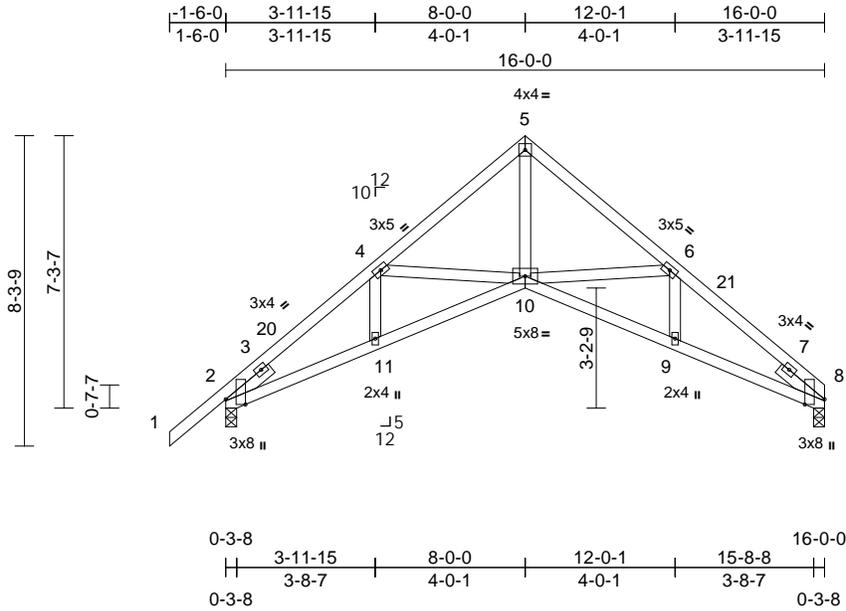
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 0126-016	Truss E05	Truss Type Scissor	Qty 6	Ply 1	Job Reference (optional) T39891441
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:18
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Page: 1



Scale = 1:61.3

Plate Offsets (X, Y): [2:0-1-11,Edge], [8:0-1-11,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	0.24	Vert(LL)	-0.05	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.10	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 87 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, Right 2x4 SP No.2 -- 1-6-0

BRACING

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

REACTIONS

(size) 2=0-3-8, 8=0-3-8
 Max Horiz 2=148 (LC 11)
 Max Uplift 2=-38 (LC 12)
 Max Grav 2=734 (LC 1), 8=636 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

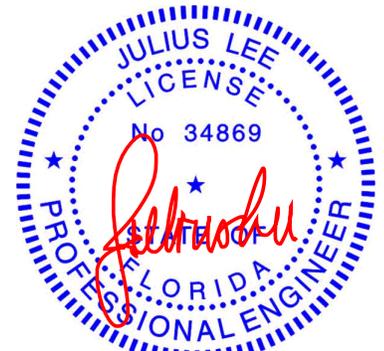
TOP CHORD 1-2=0/58, 2-4=-1251/92, 4-5=-973/54, 5-6=-989/76, 6-8=-1276/126
 BOT CHORD 2-11=-27/1025, 10-11=-26/1049, 9-10=-23/1023, 8-9=-61/1001
 WEBS 5-10=0/911, 4-10=-236/139, 4-11=0/110, 6-10=-271/147, 6-9=0/114

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 8-0-0, Zone2 8-0-0 to 12-0-1, Zone1 12-0-1 to 16-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 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:

January 22, 2026

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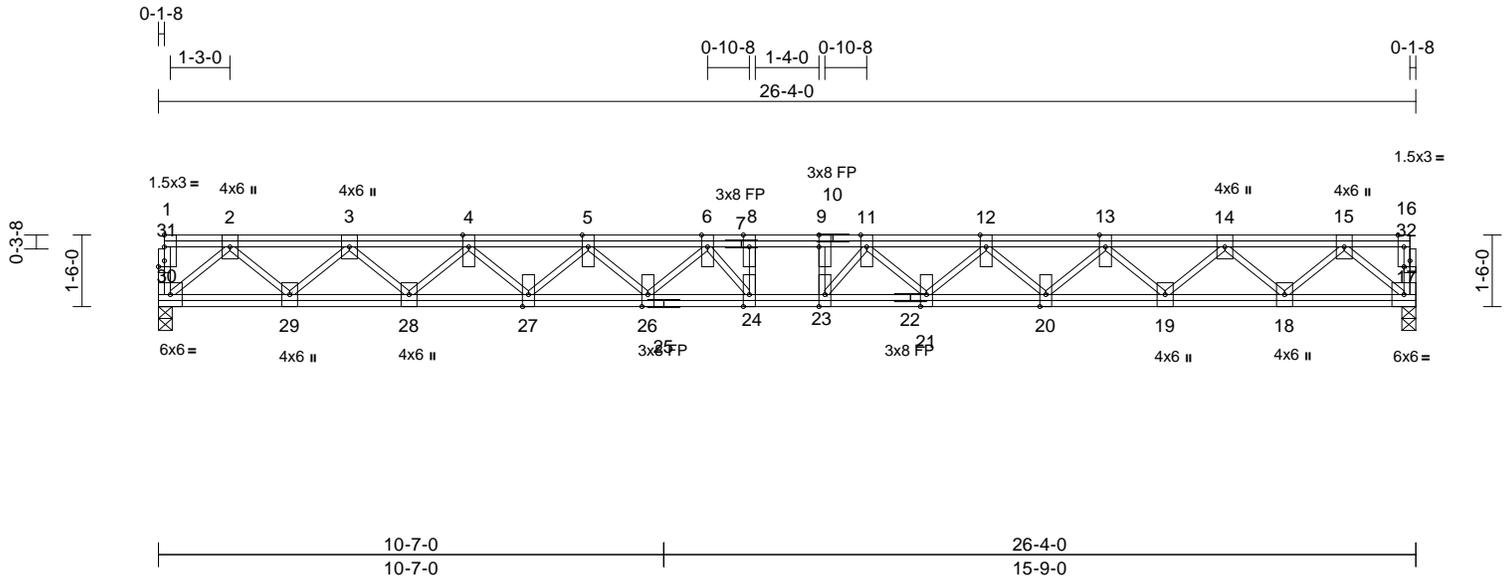
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 0126-016	Truss F01	Truss Type Floor	Qty 10	Ply 1	Job Reference (optional) T39891442
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:19
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Page: 1



Scale = 1:48

Plate Offsets (X, Y): [9:0-3-0,Edge], [31:0-1-8,0-1-8], [32:0-1-8,0-1-8]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.35	23-24	>894	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.69	Vert(CT)	-0.48	23-24	>651	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.06	17	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 211 lb	FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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.

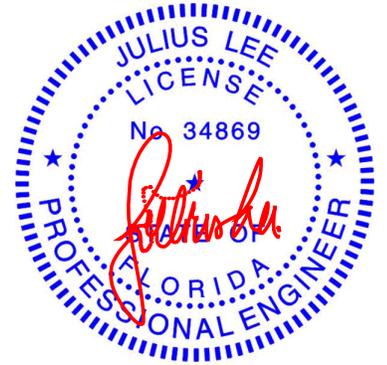
REACTIONS (size) 17=0-3-8, 30=0-3-8
Max Grav 17=952 (LC 1), 30=952 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-30=-28/0, 16-17=-28/0, 1-2=0/0,
2-3=-1730/0, 3-4=-3065/0, 4-5=-4036/0,
5-6=-4639/0, 6-8=-4891/0, 8-9=-4891/0,
9-11=-4891/0, 11-12=-4639/0, 12-13=-4036/0,
13-14=-3065/0, 14-15=-1730/0, 15-16=0/0

BOT CHORD 29-30=0/1009, 28-29=0/2484, 27-28=0/3632,
26-27=0/4423, 24-26=0/4838, 23-24=0/4891,
21-23=0/4838, 20-21=0/4423, 19-20=0/3632,
18-19=0/2484, 17-18=0/1009

WEBS 2-30=-1327/0, 15-17=-1327/0, 2-29=0/1022,
15-18=0/1022, 3-29=-1066/0, 14-18=-1066/0,
3-28=0/823, 14-19=0/823, 4-28=-801/0,
13-19=-801/0, 4-27=0/571, 13-20=0/571,
5-27=-548/0, 12-20=-548/0, 5-26=0/350,
12-21=0/350, 6-26=-369/0, 11-21=-369/0,
6-24=-233/405, 11-23=-233/405,
8-24=-227/111, 9-23=-227/111

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x8 (||) 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:

January 22, 2026

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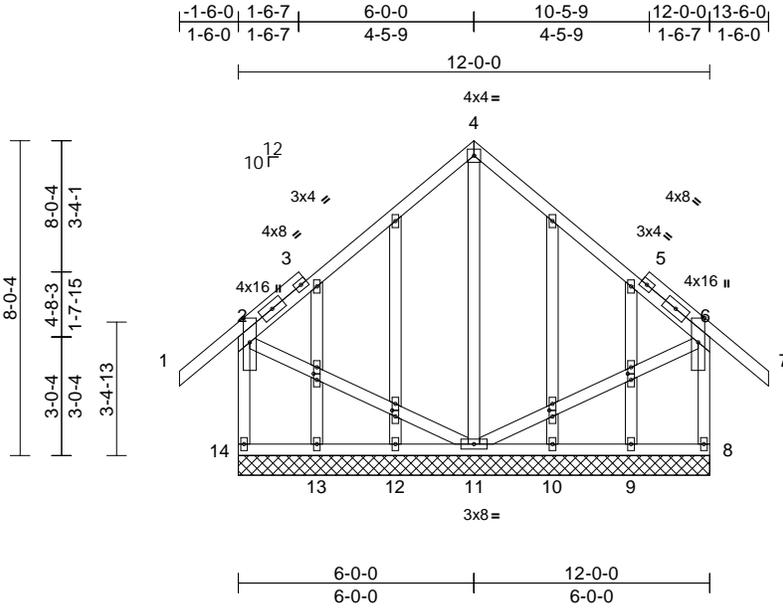
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss F02	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T39891443
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:19
ID:6YHvdltcaeLld60LkvRAMzzvr99-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwrcDoi7J4zJC7f

Page: 1



Scale = 1:58.4

Plate Offsets (X, Y): [15:0-1-14,0-1-0], [17:0-1-14,0-1-0], [19:0-1-14,0-1-0], [20:0-1-14,0-1-0]

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	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 120 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=12-0-0, 9=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0
- Max Horiz 14=199 (LC 11)
- Max Uplift 8=-10 (LC 12), 11=-152 (LC 12), 14=-10 (LC 12)
- Max Grav 8=259 (LC 24), 9=78 (LC 3), 10=81 (LC 3), 11=545 (LC 1), 12=81 (LC 3), 13=78 (LC 3), 14=259 (LC 23)

FORCES

- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 2-14=-226/80, 1-2=0/56, 2-4=-72/174, 4-6=-72/174, 6-7=0/56, 6-8=-226/80
- BOT CHORD 13-14=-188/195, 12-13=-188/195, 11-12=-188/195, 10-11=-64/80, 9-10=-64/80, 8-9=-64/80
- WEBS 4-11=-419/225, 2-11=-192/314, 6-11=-193/315

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 2x4 (||) 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 10 lb uplift at joint 14, 10 lb uplift at joint 8 and 152 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.

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:

January 22, 2026

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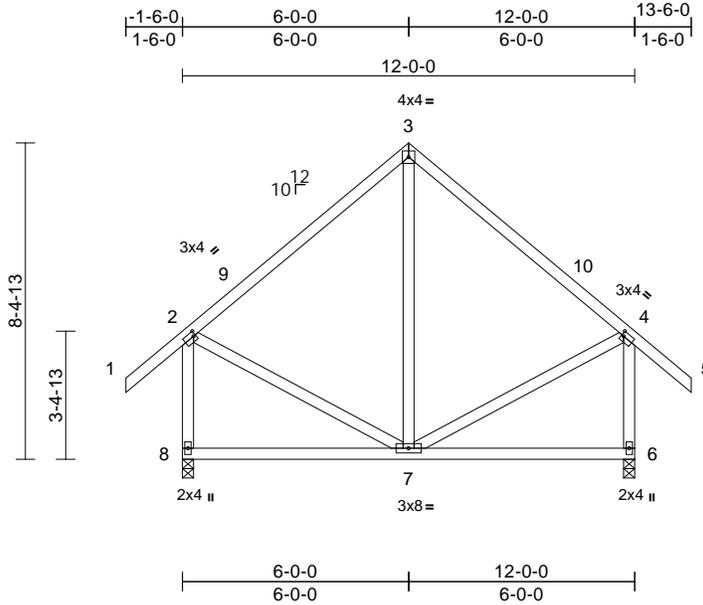
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss F03	Truss Type Common	Qty 3	Ply 1	Job Reference (optional) T39891444
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:19
ID:SiVWz0KIPWYq62VV1FdNvGzvr9t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.8

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

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	0.29	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 87 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=0-3-8, 8=0-3-8
Max Horiz 8=-213 (LC 10)
Max Uplift 6=-40 (LC 12), 8=-40 (LC 12)
Max Grav 6=567 (LC 1), 8=567 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/63, 2-3=-354/156, 3-4=-354/157, 4-5=0/63, 2-8=-513/228, 4-6=-513/231
BOT CHORD 7-8=-192/208, 6-7=-31/70
WEBS 3-7=-36/133, 2-7=-24/227, 4-7=-25/227

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 1-6-0 to 1-6-0, Zone1 1-6-0 to 6-0-0, Zone2 6-0-0 to 10-2-15, Zone1 10-2-15 to 13-6-0 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) 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.
- 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:

January 22, 2026

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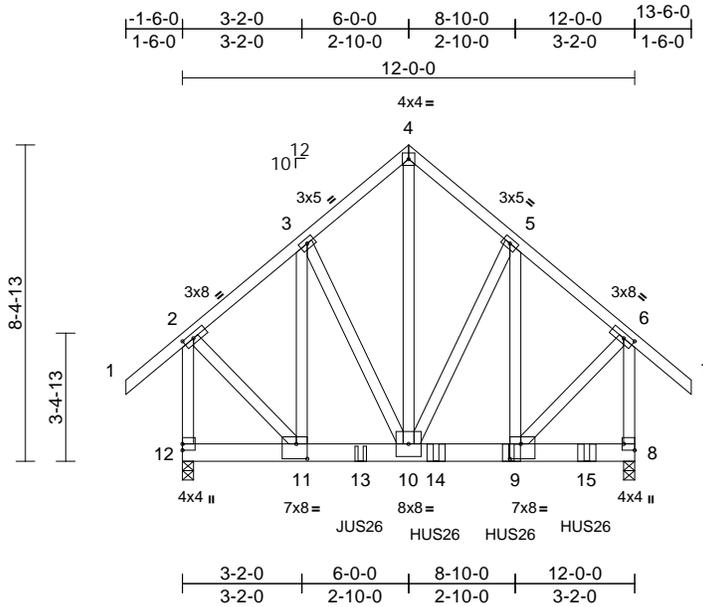
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss F04	Truss Type Common Girder	Qty 1	Ply 2	Job Reference (optional) T39891445
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:20
ID:o025b8_cunhqVJeJwJZn3QzVqYI-RfC?PsB70Hq3NSgPqnlL8w3u1TXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:60.8

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

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	0.22	Vert(LL)	-0.02	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.04	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 245 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 6'-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS (size) 8=0-3-8, 12=0-3-8

Max Horiz 12=211 (LC 7)
Max Grav 8=5020 (LC 13), 12=2537 (LC 14)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/63, 2-3=-1711/0, 3-4=-2073/0,
4-5=-2070/0, 5-6=-2702/0, 6-7=0/63,
2-12=-2526/0, 6-8=-3898/0
BOT CHORD 11-12=-192/180, 10-11=0/1352, 9-10=0/2056,
8-9=-13/67
WEBS 4-10=0/2423, 2-11=0/1836, 6-9=0/2857,
3-10=0/727, 3-11=-990/0, 5-10=-1069/0,
5-9=0/1252

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.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 5-9 2x4 - 1 row at 0-8-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=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.
- 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'-0-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Use MiTek JUS26 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 4-8-12 from the left end to connect truss(es) to front face of bottom chord.
- Use MiTek HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-8-12 from the left end to 10-8-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

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, 4-6=-60, 6-7=-60, 8-12=-20
Concentrated Loads (lb)
Vert: 9=-1626 (F), 13=-668 (F), 14=-1626 (F),
15=-1626 (F)



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

January 22, 2026

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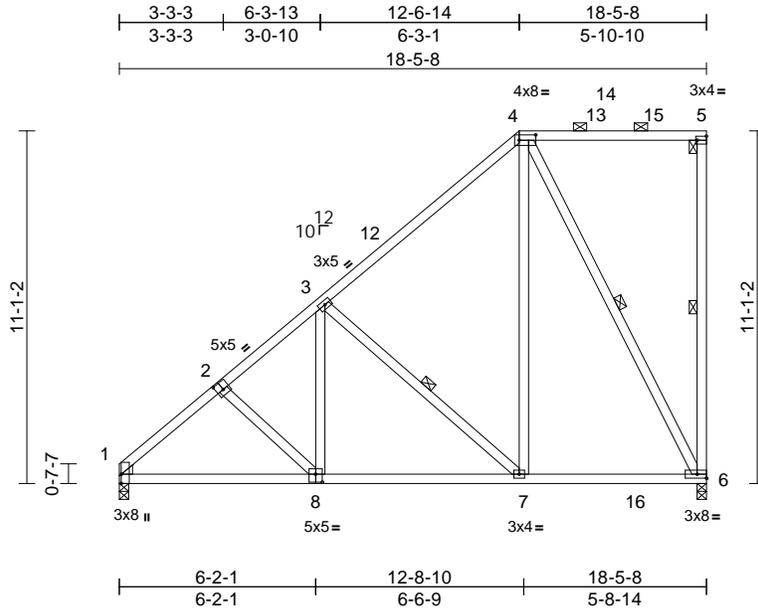
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss G01	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T39891446
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:20
ID: SqvurZ8yTgGQWlu5b2BC3GzvrqP2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:72.1

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

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	0.63	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS								Weight: 136 lb FT = 20%

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

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

REACTIONS
(size) 1=0-3-8, 6=0-3-8
Max Horiz 1=323 (LC 11)
Max Uplift 6=-77 (LC 9)
Max Grav 1=819 (LC 17), 6=902 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-994/85, 3-4=-583/151, 4-5=-151/160, 5-6=-164/64
BOT CHORD 1-7=-324/841, 6-7=-173/394
WEBS 3-8=0/287, 3-7=-498/98, 4-7=-26/590, 4-6=-768/159, 2-8=-100/53

- 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 77 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.
- 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 7-22; 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 Zone3 0-0-0 to 3-2-1, Zone1 3-2-1 to 12-6-14, Zone2 12-6-14 to 16-9-12, Zone1 16-9-12 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.



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

January 22, 2026

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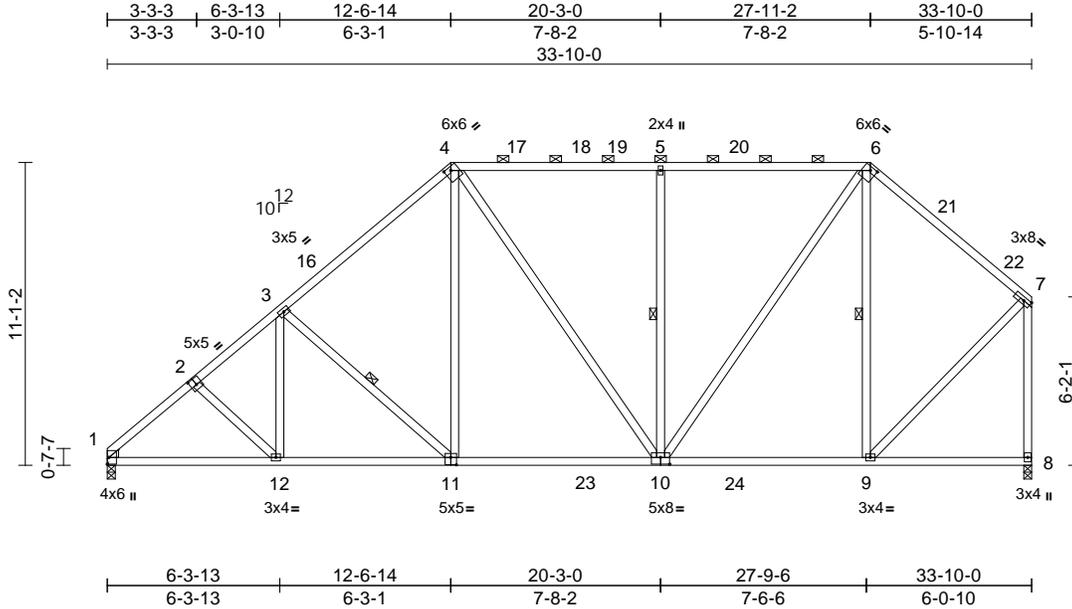
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss G02	Truss Type Piggyback Base	Qty 4	Ply 1	Job Reference (optional) T39891447
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:20
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Page: 1



Scale = 1:83.9

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

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	0.95	Vert(LL)	-0.14	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.24	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 241 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-7-14 max.): 4-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-11, 5-10, 6-9

REACTIONS
(size) 1=0-3-8, 8=0-3-8
Max Horiz 1=277 (LC 11)
Max Grav 1=1559 (LC 17), 8=1538 (LC 17)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2044/71, 3-4=-1646/126, 4-5=-1220/140, 5-6=-1220/140, 6-7=-1063/134, 7-8=-1457/64
BOT CHORD 1-12=-202/1644, 9-12=-175/1611, 8-9=-75/90
WEBS 3-12=0/230, 3-11=-462/96, 4-11=0/614, 4-10=-52/194, 5-10=-513/93, 6-10=-22/897, 6-9=-476/103, 7-9=-11/1047, 2-12=-45/55

- 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.
- 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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-0-0 to 3-2-1, Zone1 3-2-1 to 12-6-14, Zone2 12-6-14 to 17-4-4, Zone1 17-4-4 to 27-11-2, Zone2 27-11-2 to 32-8-9, Zone1 32-8-9 to 33-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



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

January 22,2026

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)

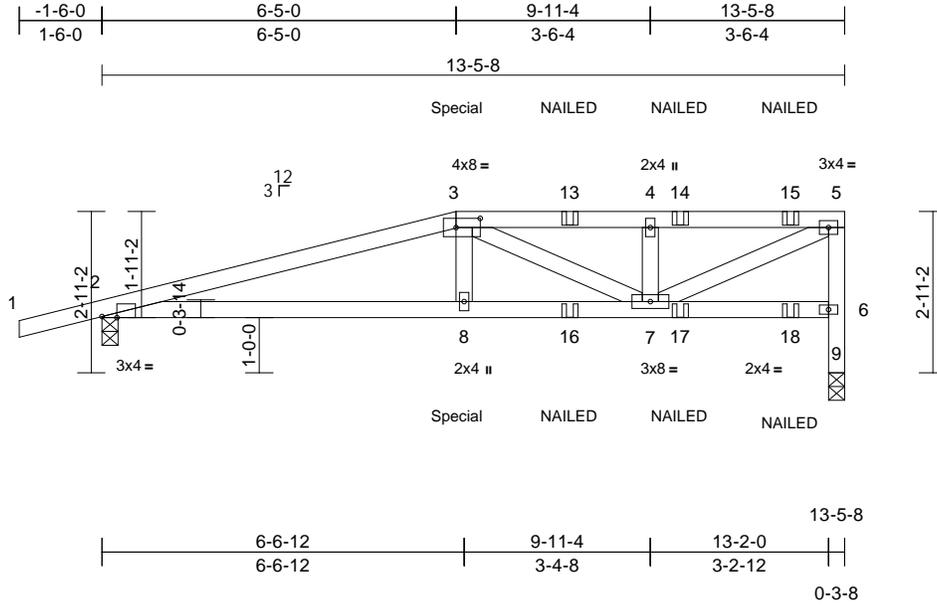
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss H01	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T39891448
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:21
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Page: 1



Scale = 1:41.5

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

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	0.31	Vert(LL)	-0.05	8-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.11	8-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.23	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 120 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 9=0-3-8
Max Horiz 2=87 (LC 7)
Max Uplift 2=64 (LC 8), 9=38 (LC 5)
Max Grav 2=994 (LC 1), 9=1171 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-2683/0, 3-4=-1887/51, 4-5=-1887/51, 6-9=-1171/38, 5-6=-1069/75
BOT CHORD 2-8=-10/2575, 7-8=0/2622, 6-7=-25/104
WEBS 3-8=0/568, 3-7=-816/0, 4-7=-422/145, 5-7=-41/2014

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.
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, except member 3-8 2x4 - 1 row at 0-5-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially 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.
- Bearing at joint(s) 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 64 lb uplift at joint 2 and 38 lb uplift at joint 9.
- "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) 195 lb down and 72 lb up at 6-5-0 on top chord, and 372 lb down at 6-5-0 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: 1-3=-60, 3-5=-60, 6-10=-20
Concentrated Loads (lb)
Vert: 3=-148 (B), 8=-366 (B), 13=-105 (B), 14=-105 (B), 15=-110 (B), 16=-58 (B), 17=-58 (B), 18=-60 (B)



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

January 22, 2026

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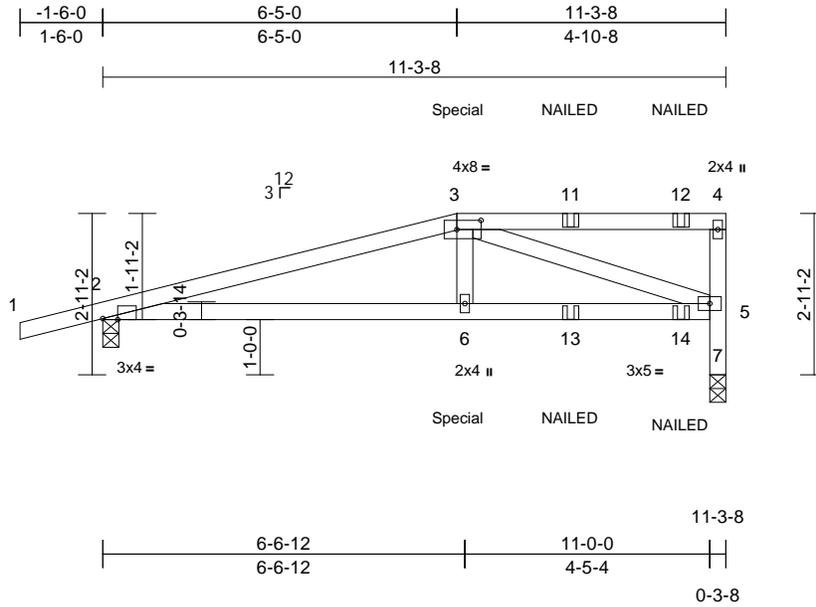
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss H02	Truss Type Half Hip Girder	Qty 1	Ply 2	Job Reference (optional) T39891449
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:21
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Page: 1



Scale = 1:41.5

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

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	0.31	Vert(LL)	-0.04	6-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.08	6-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=87 (LC 7)
Max Uplift 2=60 (LC 8), 7=17 (LC 8)
Max Grav 2=805 (LC 1), 7=1031 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-1944/0, 3-4=-130/20,
5-7=-1031/17, 4-5=-301/95
BOT CHORD 2-6=-3/1860, 5-6=0/1909
WEBS 3-6=0/618, 3-5=-1892/0

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.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-5-0 oc, Except member 3-5 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially 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.
- Bearing at joint(s) 7 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 60 lb uplift at joint 2 and 17 lb uplift at joint 7.
- "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) 195 lb down and 72 lb up at 6-5-0 on top chord, and 372 lb down at 6-5-0 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: 1-3=-60, 3-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-366 (F), 3=-148 (F), 11=-105 (F), 12=-115 (F), 13=-58 (F), 14=-62 (F)



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

January 22, 2026

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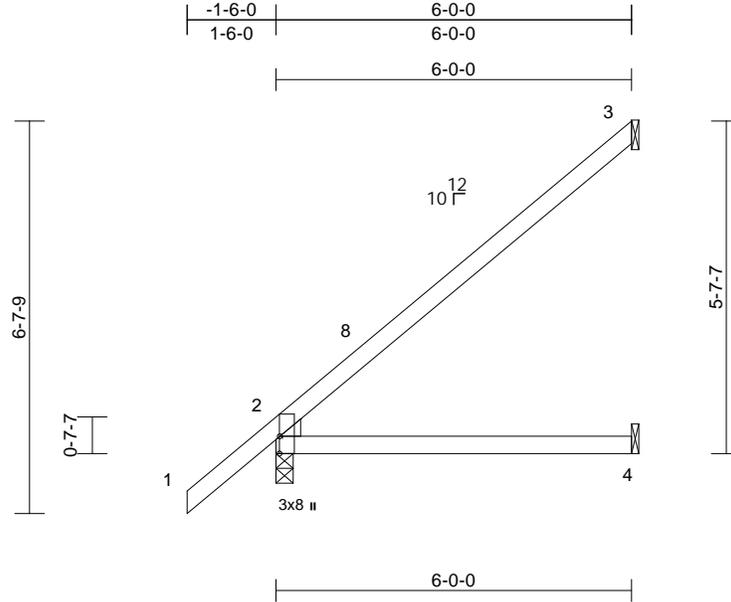
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss J01	Truss Type Jack-Open	Qty 13	Ply 1	Job Reference (optional) T39891450
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:21
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Page: 1



Scale = 1:38.7
Plate Offsets (X, Y): [2:0-3-8,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	0.42	Vert(LL)	0.08	4-7	>935	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.12	4-7	>608	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

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

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

REACTIONS (size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=164 (LC 12)
Max Uplift 3=-66 (LC 12)
Max Grav 2=339 (LC 1), 3=168 (LC 17), 4=108 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/58, 2-3=-331/127
BOT CHORD 2-4=-183/116

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 3.
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

- NOTES**
- 1) Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 5-11-4 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.



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

January 22, 2026

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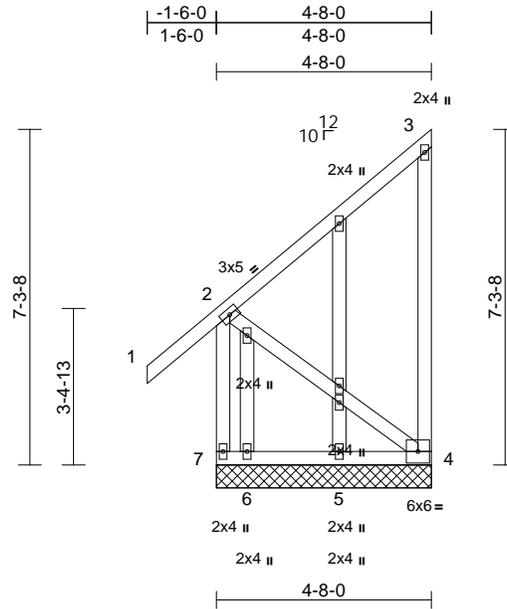
Job 0126-016	Truss J02	Truss Type Jack-Open Supported Gable	Qty 1	Ply 1	Job Reference (optional) T39891451
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:21

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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	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 52 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) 4=4-8-0, 5=4-8-0, 6=4-8-0, 7=4-8-0

Max Horiz	7=216 (LC 11)
Max Uplift	4=-171 (LC 9), 7=-58 (LC 8)
Max Grav	4=209 (LC 17), 5=89 (LC 3), 6=66 (LC 3), 7=296 (LC 18)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-7=-301/164, 1-2=0/63, 2-3=-247/213, 3-4=-223/252
BOT CHORD	6-7=-533/342, 5-6=-533/342, 4-5=-533/342
WEBS	2-4=-300/575

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 7 and 171 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:

January 22, 2026

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

MiTek®

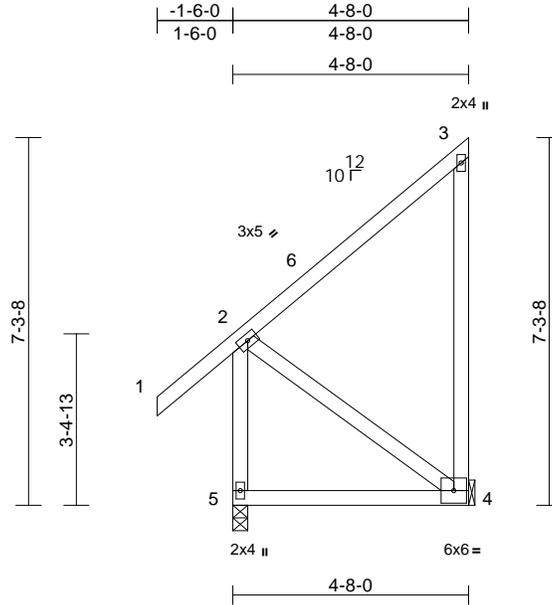
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss J03	Truss Type Jack-Closed	Qty 5	Ply 1	Job Reference (optional) T39891452
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:21
ID:00vhxYb8DuWwripW0jhmTnzW4II-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.4

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	0.43	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.04	4-5	>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	FBC2023/TPI2014	Matrix-AS							Weight: 41 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=0-3-8
Max Horiz 5=216 (LC 9)
Max Uplift 4=-154 (LC 9), 5=-30 (LC 8)
Max Grav 4=239 (LC 17), 5=344 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-5=-301/160, 1-2=0/63, 2-3=-217/173,
3-4=-188/205
BOT CHORD 4-5=-426/271
WEBS 2-4=-241/443

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 -1-6-0 to 1-6-0,
Zone1 1-6-0 to 4-6-4 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.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 5 and 154 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:

January 22, 2026

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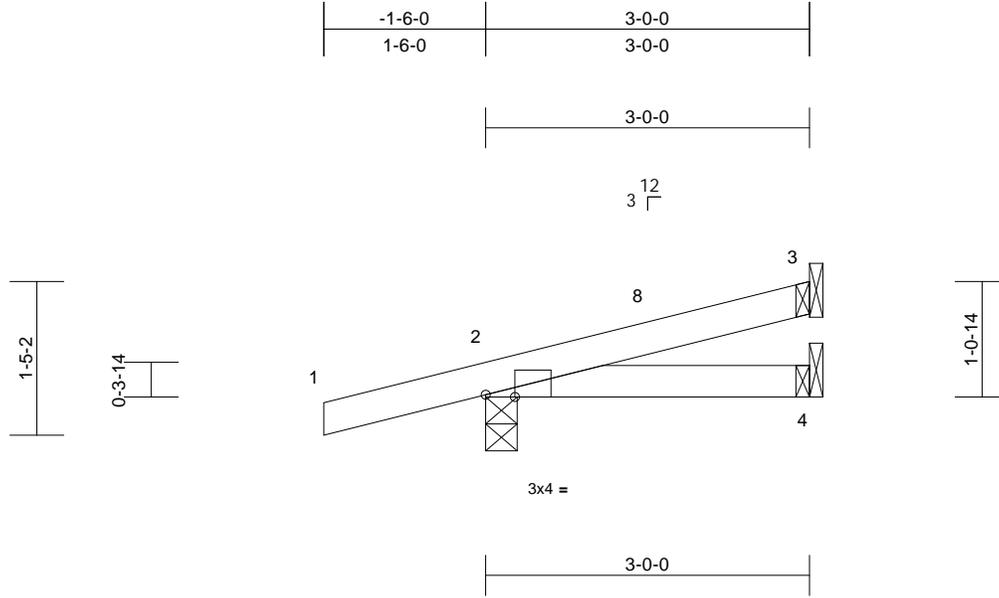
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss J05	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T39891453
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:22
ID:J0Mm_luBZGXWJ_e7Qm7PRzw4sw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.2

Plate Offsets (X, Y): [2:0-3-4,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	0.15	Vert(LL)	0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/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 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=38 (LC 12)
Max Uplift 2=-57 (LC 12), 3=-16 (LC 12)
Max Grav 2=230 (LC 1), 3=62 (LC 17), 4=48 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-61/15
BOT CHORD 2-4=-5/56

NOTES

- 1) Wind: ASCE 7-22; 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; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 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) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 57 lb uplift at joint 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:

January 22,2026

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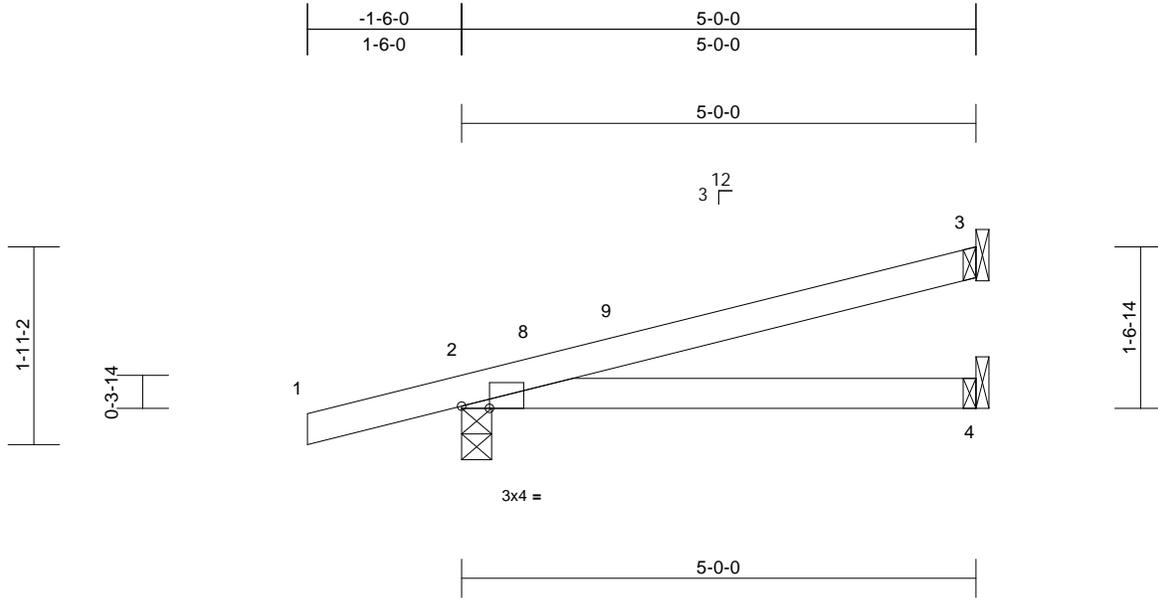
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss J06	Truss Type Jack-Open	Qty 4	Ply 1	Job Reference (optional) T39891454
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:22
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Page: 1



Scale = 1:22.3

Plate Offsets (X, Y): [2:0-3-4,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	0.27	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 18 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=0-3-8, 3= Mechanical, 4= Mechanical
Max Horiz 2=55 (LC 12)
Max Uplift 2=-60 (LC 12), 3=-37 (LC 12)
Max Grav 2=301 (LC 1), 3=123 (LC 1), 4=85 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-111/26
BOT CHORD 2-4=-59/119

NOTES

- 1) Wind: ASCE 7-22; 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; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 37 lb uplift at joint 3 and 60 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:

January 22, 2026

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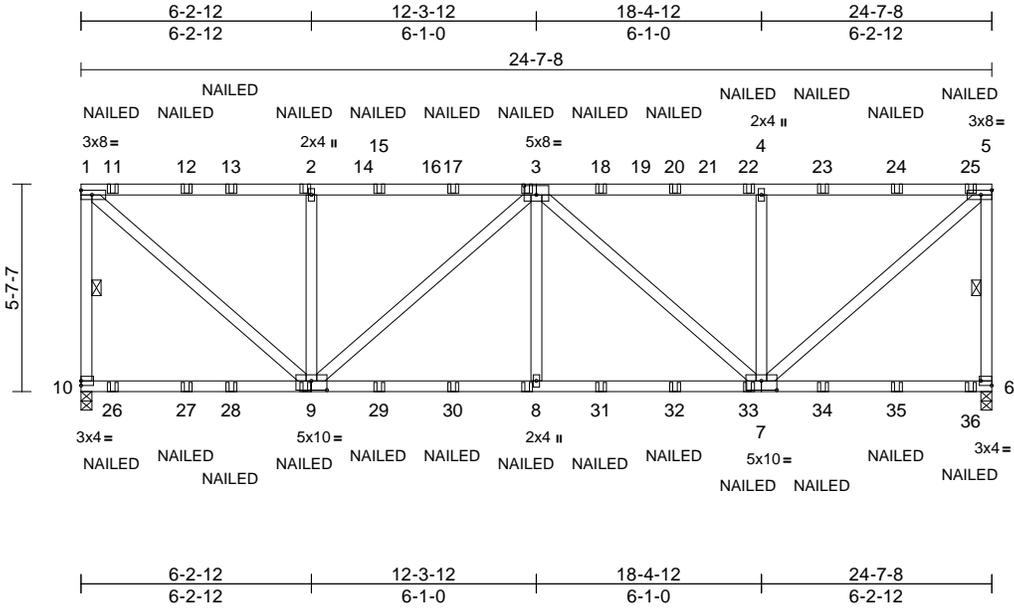
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss K01	Truss Type Flat Girder	Qty 1	Ply 1	Job Reference (optional) T39891456
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:22
ID:0DCORoNmcRrru0wzRE90Gvzvr7E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62

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

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	0.75	Vert(LL)	-0.08	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.19	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 156 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 1-10, 5-6

REACTIONS (size) 6=0-3-8, 10=0-3-8
Max Horiz 10=149 (LC 6)
Max Uplift 6=218 (LC 5), 10=219 (LC 4)
Max Grav 6=1999 (LC 13), 10=2006 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-1859/282, 1-2=-1803/234, 2-4=-1803/234, 4-5=-1780/230, 5-6=-1849/284
BOT CHORD 8-10=-287/2319, 6-8=-287/2319
WEBS 1-9=-253/2328, 2-9=-761/283, 3-9=-690/77, 3-8=0/426, 3-7=-720/83, 4-7=-735/272, 5-7=-250/2303

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; 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.

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 10 and 218 lb uplift at joint 6.

8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (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, 6-10=-20

Concentrated Loads (lb)

Vert: 9=-51 (B), 2=-95 (B), 3=-95 (B), 8=-51 (B), 11=-104 (B), 12=-95 (B), 13=-95 (B), 15=-95 (B), 17=-95 (B), 18=-95 (B), 20=-95 (B), 22=-95 (B), 23=-95 (B), 24=-95 (B), 25=-113 (B), 26=-54 (B), 27=-51 (B), 28=-51 (B), 29=-51 (B), 30=-51 (B), 31=-51 (B), 32=-51 (B), 33=-51 (B), 34=-51 (B), 35=-51 (B), 36=-57 (B)



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

January 22, 2026

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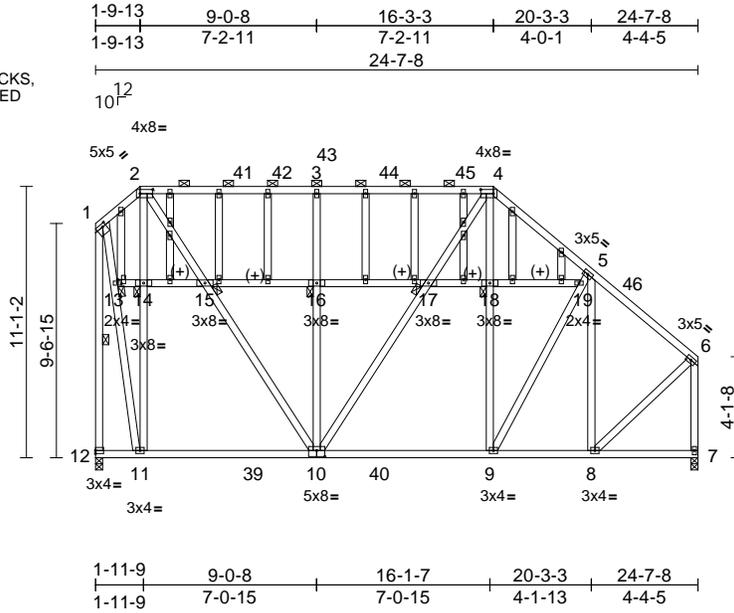
Job 0126-016	Truss K02	Truss Type Piggyback Base Structural Gable	Qty 1	Ply 1	Job Reference (optional) T39891457
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:23
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Page: 1

(+) TOP CHORD MUST BE BRACED BY END JACKS, ROOF DIAPHRAGM, OR PROPERLY CONNECTED PURLINS AS SPECIFIED.



Scale = 1:93.7

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

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	0.65	Vert(LL)	-0.09	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/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 (6-0-0 max.): 2-4.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-12
JOINTS 1 Brace at Jt(s): 13, 14, 15, 16, 17, 18

REACTIONS

(size) 7=0-3-8, 12=0-3-8
Max Horiz 12=302 (LC 10)
Max Uplift 12=-24 (LC 8)
Max Grav 7=1110 (LC 18), 12=1164 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-1191/95, 6-7=-1037/79, 2-3=-707/153, 3-4=-705/153, 1-2=-429/231, 4-5=-908/143, 5-6=-790/68
BOT CHORD 11-12=-306/357, 9-11=-183/616, 8-9=-68/555, 7-8=-46/61
WEBS 11-14=-773/283, 2-14=-773/283, 2-15=-121/863, 10-15=-119/847, 10-16=-489/112, 3-16=-489/112, 10-17=-45/146, 4-17=-46/149, 9-18=-52/246, 4-18=-52/246, 1-13=-139/1053, 11-13=-137/1034, 6-8=-31/720, 9-19=-68/140, 5-19=-48/166, 5-8=-371/75, 13-14=-12/100, 14-15=0/50, 15-16=0/77, 16-17=0/73, 17-18=0/70, 18-19=0/60

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 1-9-13, Zone2 1-9-13 to 6-0-12, Zone1 6-0-12 to 16-3-3, Zone2 16-3-3 to 20-3-3, Zone1 20-3-3 to 24-5-12 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
- 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 2x4 (||) 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 12.
- 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:

January 22, 2026

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)

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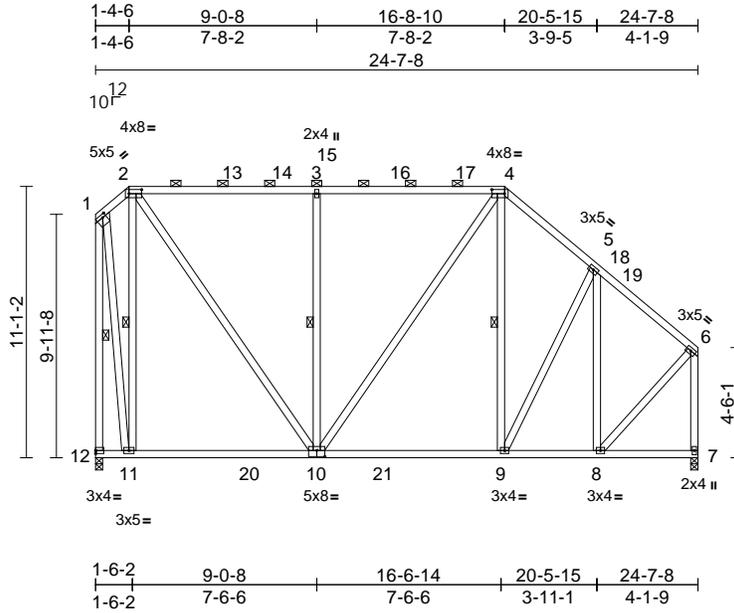
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss K03	Truss Type Piggyback Base	Qty 1	Ply 1	Job Reference (optional) T39891458
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:23
ID:Le_0k3RekKd4Hj?lcksoczvqc3-RfC?PsB70Hq3NSgPqnL8w3uITxbGKwrcDoi7J4zJC?f

Page: 1



Scale = 1:93.7

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

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	0.74	Vert(LL)	-0.11	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.20	10-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 229 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, and 2-0-0 oc purlins (6-0-0 max.): 2-4.
BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 2-11, 3-10, 4-9, 1-12

REACTIONS

(size) 7=0-3-8, 12=0-3-8
Max Horiz 12=305 (LC 10)
Max Uplift 12=35 (LC 8)
Max Grav 7=1111 (LC 18), 12=1171 (LC 18)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-330/267, 2-3=-668/135, 3-4=-668/135, 4-5=-839/122, 5-6=-743/73, 1-12=-1254/99, 6-7=-1041/59

BOT CHORD 11-12=-291/357, 9-11=-199/626, 8-9=-64/519, 7-8=-54/69

WEBS 2-11=-909/312, 2-10=-105/900, 3-10=-520/101, 4-10=-44/177, 4-9=-53/190, 1-11=-119/1188, 6-8=-22/725, 5-9=-21/232, 5-8=-432/66

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=25ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-1-12 to 1-4-6, Zone2 1-4-6 to 5-7-4, Zone1 5-7-4 to 16-8-10, Zone2 16-8-10 to 20-11-9, Zone1 20-11-9 to 24-5-12 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 12.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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:

January 22,2026

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

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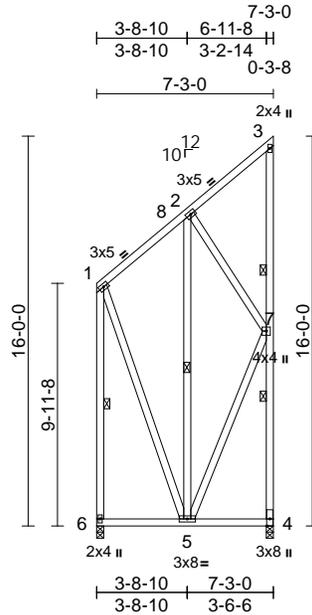
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss K04	Truss Type Monopitch	Qty 2	Ply 1	Job Reference (optional) T39891459
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:23
ID:xcMiWKRuLFDDI2aydco7Z8zvqba-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:94

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)	-0.01	5-6	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	5-6	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.00	4	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 117 lb FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 1-6, 2-5
WEBS 2 Rows at 1/3 pts 3-4

REACTIONS

(size) 4=0-3-8, 6=0-3-8
Max Horiz 6=139 (LC 12)
Max Uplift 4=-251 (LC 12)
Max Grav 4=364 (LC 17), 6=288 (LC 18)

FORCES

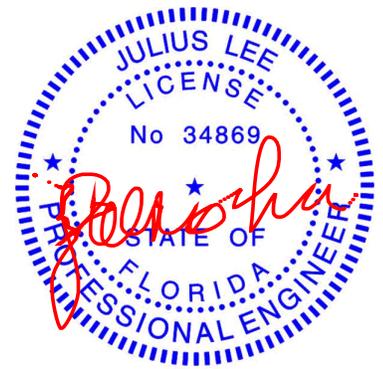
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-100/36, 2-3=-81/41, 4-7=-391/532,
3-7=-81/63, 1-6=-357/49
BOT CHORD 5-6=-259/115, 4-5=0/0
WEBS 1-5=-84/384, 2-7=-151/221, 2-5=-152/0,
5-7=-319/217

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 0-1-12 to 3-1-12,
Zone1 3-1-12 to 7-1-4 zone; cantilever left and right
exposed ;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 251 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:

January 22,2026

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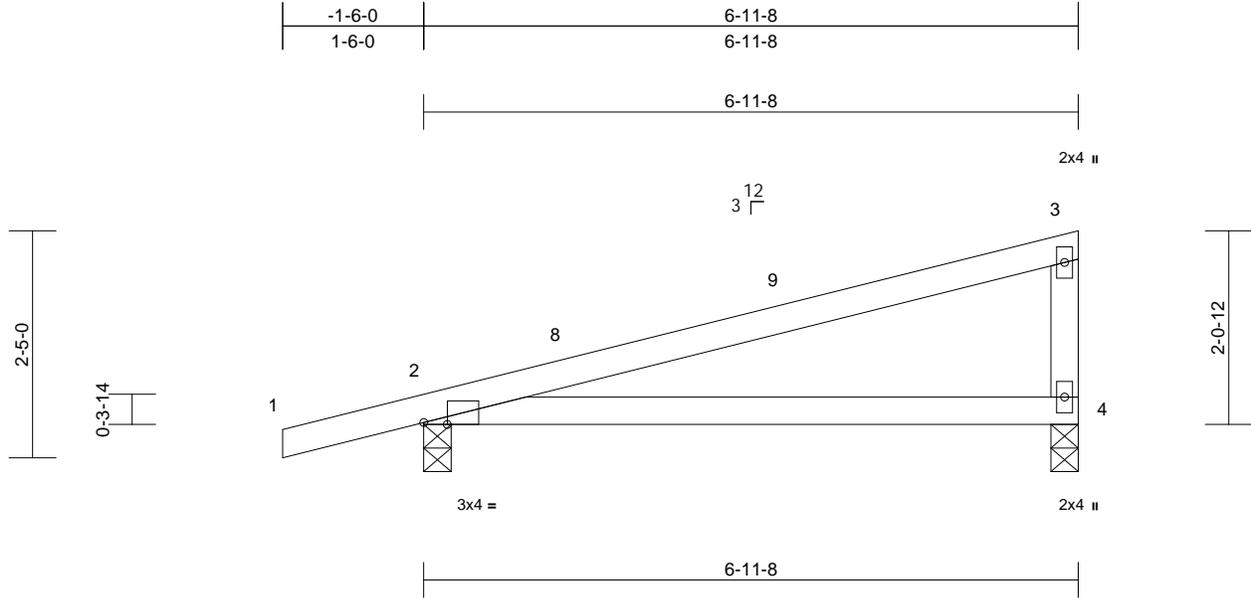
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss M01	Truss Type Monopitch	Qty 18	Ply 1	Job Reference (optional) T39891460
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:24
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Page: 1



Scale = 1:24.4

Plate Offsets (X, Y): [2:0-3-0,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	0.56	Vert(LL)	0.12	4-7	>688	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.19	4-7	>423	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 4=0-3-8
Max Horiz 2=54 (LC 11)
Max Uplift 2=-72 (LC 12), 4=-28 (LC 12)
Max Grav 2=372 (LC 1), 4=263 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-157/48, 3-4=-179/219
BOT CHORD 2-4=-95/181

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Partially Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 6-9-12 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 4 and 72 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:

January 22, 2026

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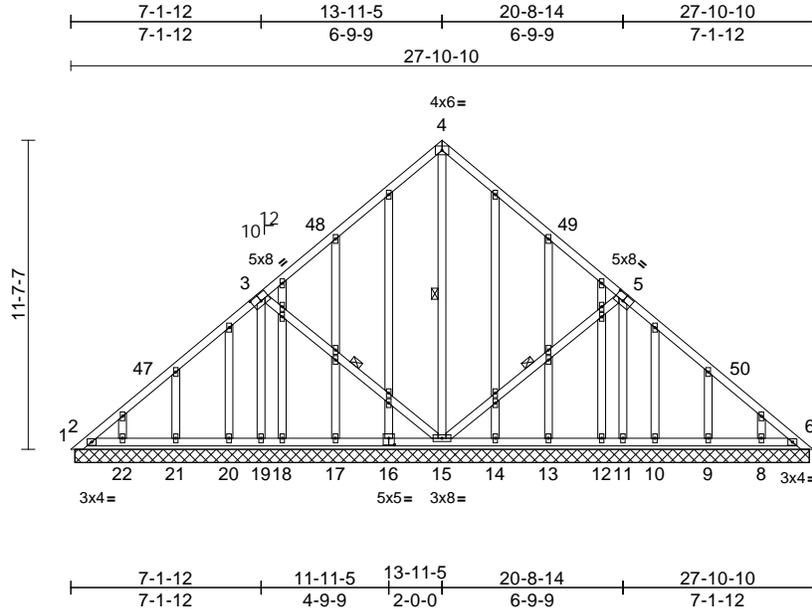
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB01	Truss Type Piggyback	Qty 2	Ply 1	Job Reference (optional) T39891461
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:24
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Page: 1



Scale = 1:86.1

Plate Offsets (X, Y): [3:0-4-0,0-3-0], [5:0-4-0,0-3-0], [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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 240 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.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-15, 4-15, 5-15

REACTIONS (size)
1=27-7-1, 2=27-7-1, 6=27-7-1,
7=27-7-1, 8=27-7-1, 9=27-7-1,
10=27-7-1, 11=27-7-1, 12=27-7-1,
13=27-7-1, 14=27-7-1, 15=27-7-1,
17=27-7-1, 18=27-7-1, 19=27-7-1,
20=27-7-1, 21=27-7-1, 22=27-7-1

Max Horiz 1=-232 (LC 10)
Max Uplift 1=-358 (LC 17), 2=-83 (LC 12),
6=-89 (LC 12), 7=-228 (LC 18),
8=-37 (LC 12), 11=-42 (LC 12),
15=-92 (LC 12), 19=-37 (LC 12),
22=-36 (LC 12)
Max Grav 1=152 (LC 9), 2=500 (LC 17),
6=422 (LC 1), 7=106 (LC 12),
8=159 (LC 18), 9=78 (LC 3), 10=72
(LC 3), 11=342 (LC 1), 12=63 (LC
3), 13=89 (LC 3), 14=55 (LC 3),
15=466 (LC 1), 17=144 (LC 3),
18=27 (LC 3), 19=371 (LC 17),
20=70 (LC 3), 21=79 (LC 3),
22=161 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-269/388, 2-4=-274/177, 4-6=-232/135,
6-7=-85/164

BOT CHORD 2-22=-95/170, 21-22=-95/170,
20-21=-95/170, 19-20=-95/170,
18-19=-95/164, 17-18=-95/164,
15-17=-95/164, 14-15=-14/100,
13-14=-14/100, 12-13=-14/100,
11-12=-14/100, 10-11=-12/104, 9-10=-12/104,
8-9=-12/104, 6-8=-45/104
WEBS 3-19=-354/62, 3-15=-112/126, 4-15=-320/1,
5-15=-118/127, 5-11=-334/61

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-8-3 to 3-8-3, Zone1 3-8-3 to 14-4-13, Zone2 14-4-13 to 18-7-11, Zone1 18-7-11 to 28-1-6 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.
 - All plates are 2x4 (||) MT20 unless otherwise indicated.
 - 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.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 83 lb uplift at joint 2, 89 lb uplift at joint 6, 358 lb uplift at joint 1, 228 lb uplift at joint 7, 37 lb uplift at joint 19, 92 lb uplift at joint 15, 42 lb uplift at joint 11, 36 lb uplift at joint 22, 37 lb uplift at joint 8, 83 lb uplift at joint 2 and 89 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.
12) 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:

January 22, 2026

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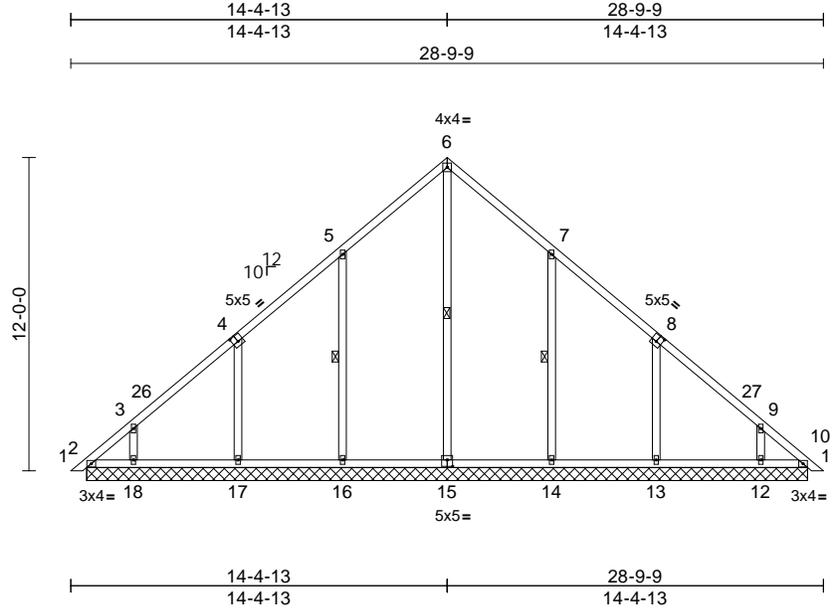
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB02	Truss Type Piggyback	Qty 18	Ply 1	Job Reference (optional)	T39891462
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:24
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Page: 1



Scale = 1:87.7

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

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(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 155 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 6-15, 5-16, 7-14

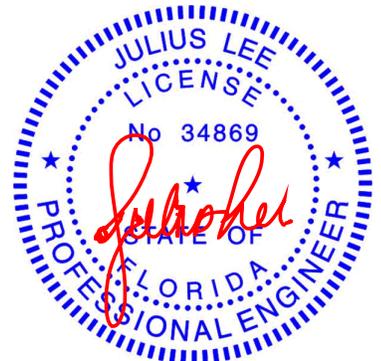
REACTIONS (size)
 2=27-7-1, 10=27-7-1, 12=27-7-1,
 13=27-7-1, 14=27-7-1, 15=27-7-1,
 16=27-7-1, 17=27-7-1, 18=27-7-1
 Max Horiz 2=-239 (LC 10)
 Max Uplift 2=-85 (LC 10), 10=-38 (LC 11),
 12=-53 (LC 12), 13=-67 (LC 12),
 14=-69 (LC 12), 16=-69 (LC 12),
 17=-67 (LC 12), 18=-53 (LC 12)
 Max Grav 2=161 (LC 18), 10=126 (LC 17),
 12=322 (LC 18), 13=438 (LC 18),
 14=479 (LC 18), 15=365 (LC 17),
 16=480 (LC 17), 17=437 (LC 17),
 18=324 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/15, 2-3=-190/194, 3-5=-208/159,
 5-6=-155/178, 6-7=-154/179, 7-9=-155/88,
 9-10=-165/122, 10-11=0/15
 BOT CHORD 2-18=-88/141, 17-18=-88/141,
 16-17=-89/143, 14-16=-89/143,
 13-14=-89/143, 12-13=-86/141,
 10-12=-86/141
 WEBS 6-15=-167/39, 5-16=-277/143,
 4-17=-263/123, 3-18=-213/113,
 7-14=-276/143, 8-13=-263/123,
 9-12=-212/113

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft;
 B=45ft; L=29ft; eave=4ft; Cat. II; Exp B; Enclosed;
 MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12,
 Zone1 3-2-12 to 14-4-13, Zone2 14-4-13 to 18-4-13,
 Zone1 18-4-13 to 28-6-13 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 2x4 (||) 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.
- Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 85 lb uplift at joint
 2, 69 lb uplift at joint 16, 67 lb uplift at joint 17, 53 lb uplift
 at joint 18, 69 lb uplift at joint 14, 67 lb uplift at joint 13,
 53 lb uplift at joint 12, 38 lb uplift at joint 10, 85 lb uplift at
 joint 2 and 38 lb uplift at joint 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.
- 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:

January 22, 2026

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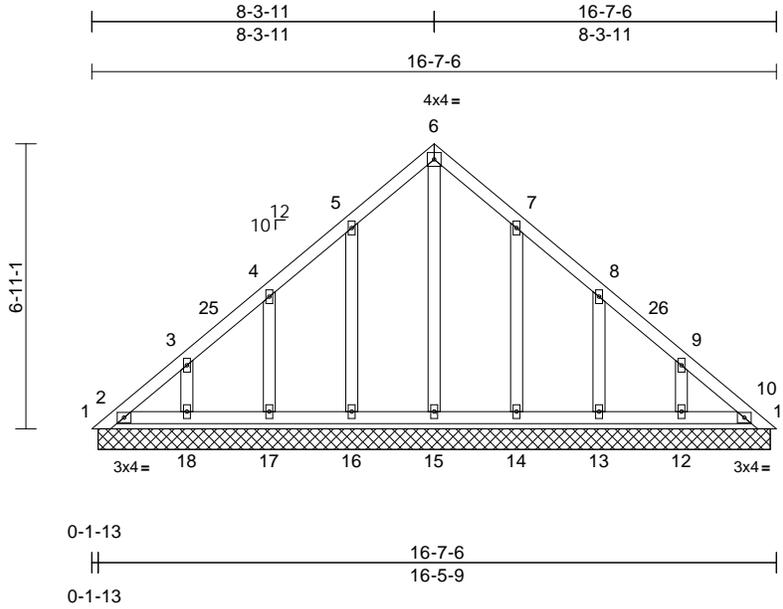
MiTek®
 16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB03	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T39891463
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:25
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Page: 1



Scale = 1:55.6

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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 90 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=16-3-12, 2=16-3-12, 10=16-3-12, 11=16-3-12, 12=16-3-12, 13=16-3-12, 14=16-3-12, 15=16-3-12, 16=16-3-12, 17=16-3-12, 18=16-3-12
- Max Horiz 1=-134 (LC 10)
- Max Uplift 1=-113 (LC 10), 11=-17 (LC 18), 12=-33 (LC 12), 13=-35 (LC 12), 14=-30 (LC 12), 16=-30 (LC 12), 17=-35 (LC 12), 18=-33 (LC 12)
- Max Grav 1=95 (LC 11), 2=158 (LC 17), 10=124 (LC 1), 11=8 (LC 12), 12=164 (LC 18), 13=170 (LC 18), 14=173 (LC 18), 15=124 (LC 17), 16=175 (LC 17), 17=169 (LC 17), 18=165 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-2=-162/186, 2-3=-102/102, 3-4=-107/80, 4-5=-95/69, 5-6=-95/120, 6-7=-95/120, 7-8=-64/69, 8-9=-77/40, 9-10=-98/61, 10-11=-9/30
- BOT CHORD 2-18=-54/99, 17-18=-54/99, 16-17=-54/99, 15-16=-54/99, 14-15=-54/99, 13-14=-54/99, 12-13=-54/99, 10-12=-54/99
- WEBS 6-15=-97/27, 5-16=-135/99, 4-17=-130/85, 3-18=-120/94, 7-14=-133/99, 8-13=-131/85, 9-12=-120/94

NOTES

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-8-3 to 3-8-3, Zone1 3-8-3 to 8-9-2, Zone2 8-9-2 to 12-9-2, Zone1 12-9-2 to 16-10-1 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 (||) MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 16, 35 lb uplift at joint 17, 33 lb uplift at joint 18, 30 lb uplift at joint 14, 35 lb uplift at joint 13, 33 lb uplift at joint 12, 113 lb uplift at joint 1 and 17 lb uplift at joint 11.
- 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



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

January 22,2026

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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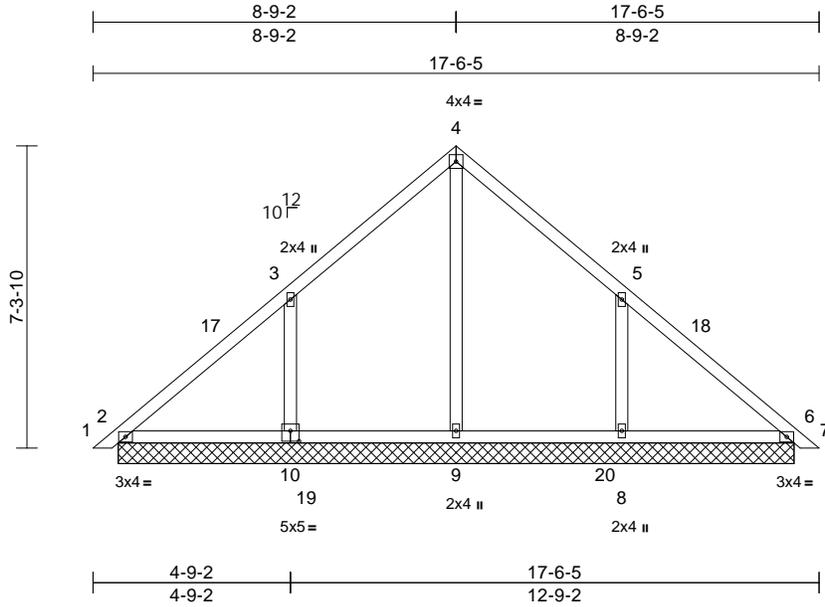
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB04	Truss Type Piggyback	Qty 8	Ply 1	Job Reference (optional) T39891464
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:25
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Page: 1



Scale = 1:55.3

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 78 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=16-3-12, 6=16-3-12, 8=16-3-12,
9=16-3-12, 10=16-3-12
Max Horiz 2=-141 (LC 10)
Max Uplift 8=-80 (LC 12), 10=-80 (LC 12)
Max Grav 2=222 (LC 18), 6=202 (LC 17),
8=498 (LC 18), 9=318 (LC 17),
10=499 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-153/99, 3-4=-158/127,
4-5=-147/128, 5-6=-122/59, 6-7=0/15
BOT CHORD 2-9=-40/89, 8-9=-40/89, 6-8=-40/89
WEBS 4-9=-136/0, 3-10=-300/171, 5-8=-299/171

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 0-2-12 to 3-2-12,
Zone1 3-2-12 to 8-9-2, Zone2 8-9-2 to 12-9-2, Zone1
12-9-2 to 17-3-9 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
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 10 and 80 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.
- 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:

January 22, 2026

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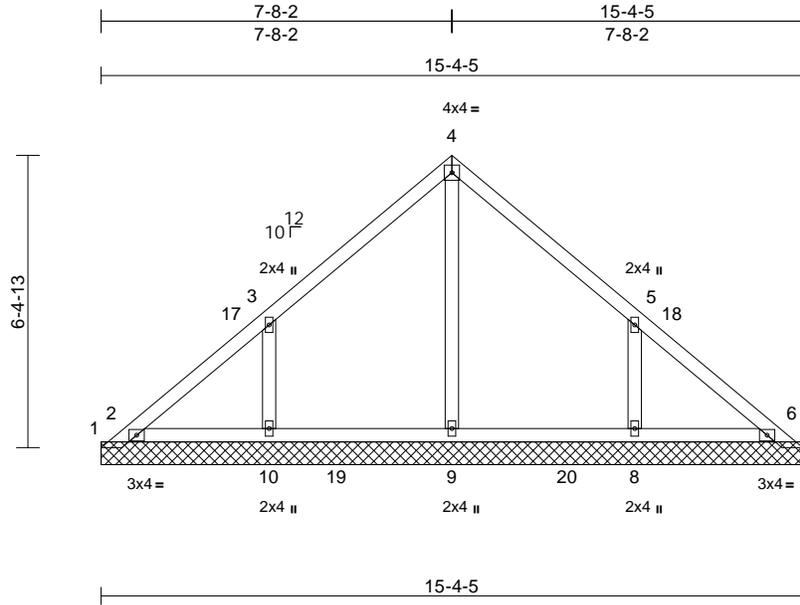
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB05	Truss Type Piggyback	Qty 3	Ply 1	Job Reference (optional) T39891465
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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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	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 66 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=15-4-5, 2=15-4-5, 6=15-4-5,
7=15-4-5, 8=15-4-5, 9=15-4-5,
10=15-4-5
Max Horiz 1=-123 (LC 10)
Max Uplift 1=-172 (LC 17), 7=-101 (LC 18),
8=-65 (LC 12), 10=-65 (LC 12)
Max Grav 1=59 (LC 11), 2=321 (LC 17),
6=258 (LC 18), 7=22 (LC 12),
8=393 (LC 18), 9=357 (LC 17),
10=393 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-131/205, 2-3=-137/87, 3-4=-142/115,
4-5=-133/116, 5-6=-110/50, 6-7=-50/83
BOT CHORD 2-10=-38/82, 9-10=-37/82, 8-9=-37/82,
6-8=-37/82
WEBS 4-9=-164/0, 3-10=-251/181, 5-8=-250/174

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12,
Zone1 3-2-12 to 7-8-2, Zone2 7-8-2 to 11-8-2, Zone1
11-8-2 to 15-1-9 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 1, 101 lb uplift at joint 7, 65 lb uplift at joint 10 and 65 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.
- 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:

January 22, 2026

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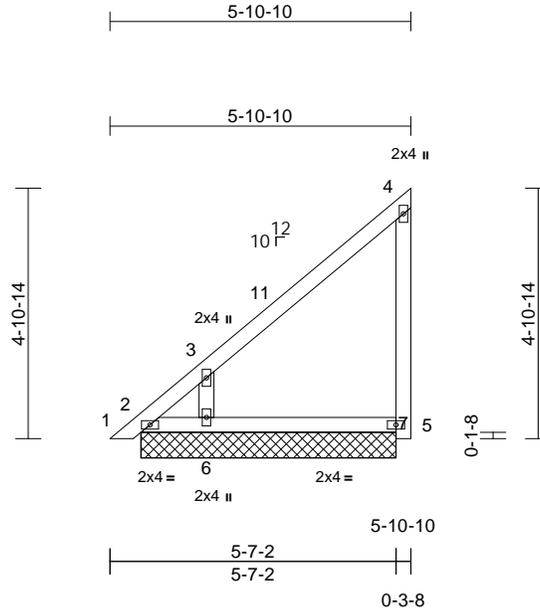
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB06	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T39891466
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Mayo Truss Company, Inc., Mayo, FL - 32066,

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Page: 1



Scale = 1:44.9

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 27 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) 2=4-11-14, 5=4-11-14, 6=4-11-14, 7=4-11-14

Max Horiz 2=140 (LC 11)

Max Uplift 2=-70 (LC 10), 5=-31 (LC 9), 6=-65 (LC 12)

Max Grav 2=90 (LC 9), 5=141 (LC 17), 6=339 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-317/230, 3-4=-144/117, 5-7=0/0, 4-5=-130/125

BOT CHORD 2-6=-73/79, 5-6=-73/79

WEBS 3-6=-280/332

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 0-2-12 to 3-2-12, Zone1 3-2-12 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 2, 31 lb uplift at joint 5, 65 lb uplift at joint 6 and 70 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) 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:

January 22, 2026

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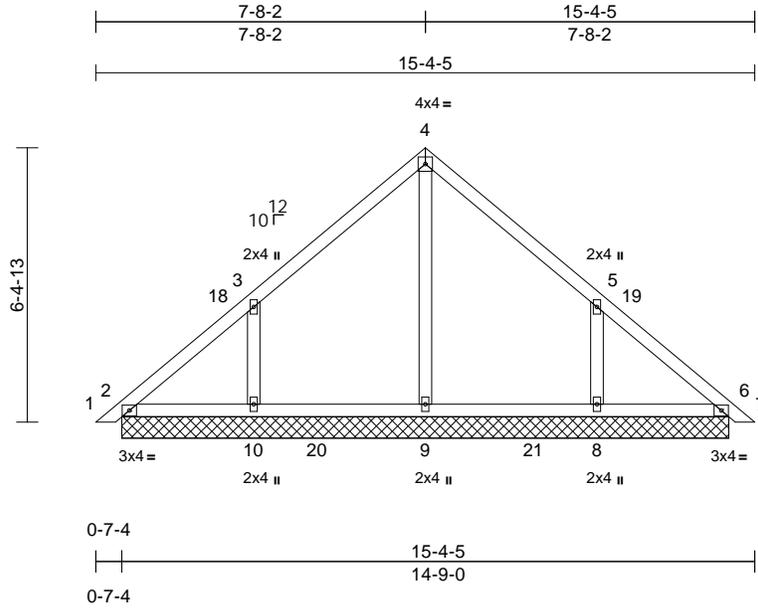
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB07	Truss Type Piggyback	Qty 2	Ply 1	Job Reference (optional) T39891467
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:26
ID:ToyC7e7otifFIETmcWJKslzw4h?-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4

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	0.15	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.18	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 66 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=14-1-12, 6=14-1-12, 8=14-1-12,
9=14-1-12, 10=14-1-12
Max Horiz 2=123 (LC 11)
Max Uplift 8=68 (LC 12), 10=68 (LC 12)
Max Grav 2=174 (LC 18), 6=156 (LC 17),
8=412 (LC 18), 9=348 (LC 17),
10=413 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/15, 2-3=-127/89, 3-4=-145/117,
4-5=-136/119, 5-6=-100/53, 6-7=0/15
BOT CHORD 2-10=-35/85, 9-10=-35/85, 8-9=-35/85,
6-8=-35/85

WEBS 4-9=-159/0, 3-10=-260/182, 5-8=-259/175

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 0-2-12 to 3-2-12,
Zone1 3-2-12 to 7-8-2, Zone2 7-8-2 to 11-8-2, Zone1
11-8-2 to 15-1-9 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 10 and 68 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.
- 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:

January 22,2026

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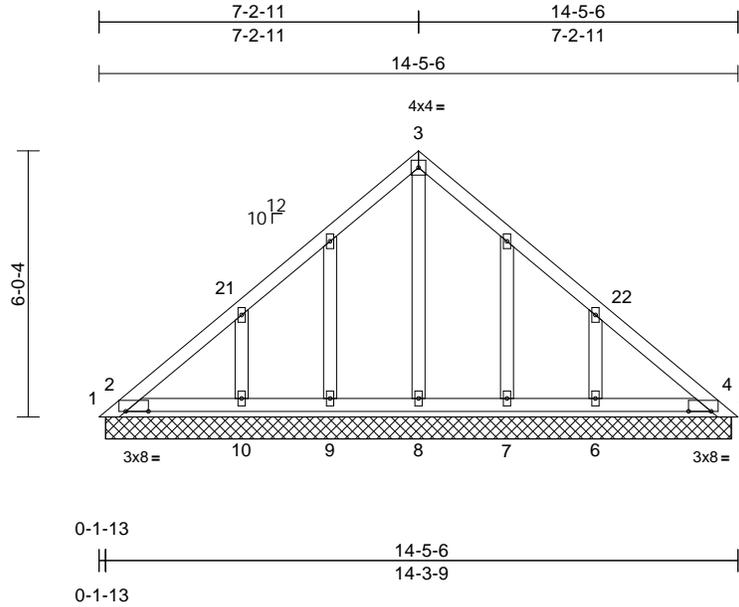
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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 0126-016	Truss PB08	Truss Type Piggyback	Qty 1	Ply 1	Job Reference (optional) T39891468
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Mayo Truss Company, Inc., Mayo, FL - 32066,

Run: 8.83 S Sep 3 2025 Print: 8.830 S Sep 3 2025 MiTek Industries, Inc. Wed Jan 21 14:59:26
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Page: 1



Scale = 1:51.8

Plate Offsets (X, Y): [2:0-4-1,Edge], [4:0-4-1,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	0.45	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 72 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=14-1-12, 2=14-1-12, 4=14-1-12,
5=14-1-12, 6=14-1-12, 7=14-1-12,
8=14-1-12, 9=14-1-12, 10=14-1-12
Max Horiz 1=-116 (LC 10)
Max Uplift 1=-1 (LC 12), 4=-248 (LC 12),
5=-567 (LC 18), 9=-52 (LC 1),
10=-47 (LC 12)
Max Grav 1=295 (LC 1), 4=960 (LC 18),
5=207 (LC 12), 6=145 (LC 18),
7=86 (LC 16), 8=139 (LC 16), 9=57
(LC 16), 10=348 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-251/40, 2-3=-408/139, 3-4=-413/218,
4-5=-231/382
BOT CHORD 2-10=-60/304, 9-10=0/231, 8-9=0/231,
7-8=0/231, 6-7=0/231, 4-6=-130/231

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; 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 Zone3 0-8-3 to 3-8-3,
Zone1 3-8-3 to 7-8-2, Zone2 7-8-2 to 11-11-1, Zone1
11-11-1 to 14-8-1 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

- 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 2x4 (||) MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 248 lb uplift at joint 4, 52 lb uplift at joint 9, 47 lb uplift at joint 10, 1 lb uplift at joint 1, 567 lb uplift at joint 5 and 248 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:

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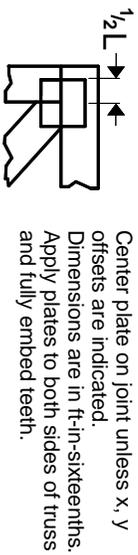
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of the design parameters and properly incorporate this design into the overall 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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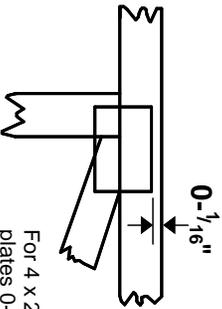
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Chesterfield, MO 63017
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

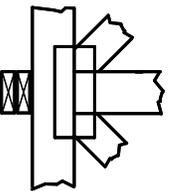
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

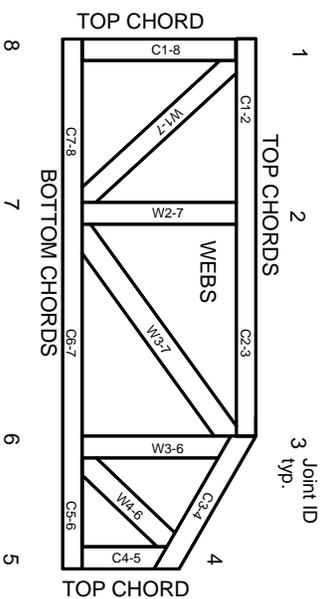


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

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

Design General Notes

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

Lumber design values are in accordance with ANSI/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