



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

RE: 0524-036 - Shaw

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

Site Information:

Customer Info: William Scott Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Live Oak State: FL

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

Name: License #:
Address:
City: State:

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

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

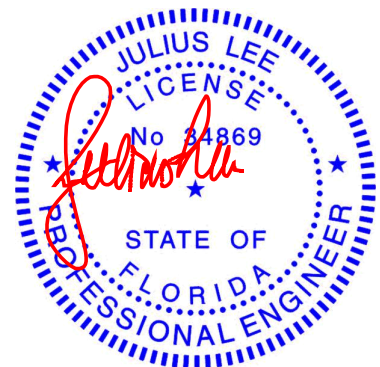
This package includes 21 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T33926997	A01	5/21/24
2	T33926998	A02	5/21/24
3	T33926999	A03	5/21/24
4	T33927000	A04	5/21/24
5	T33927001	A05	5/21/24
6	T33927002	A06	5/21/24
7	T33927003	B01	5/21/24
8	T33927004	B02	5/21/24
9	T33927005	B03	5/21/24
10	T33927006	B04	5/21/24
11	T33927007	B05	5/21/24
12	T33927008	CJ01	5/21/24
13	T33927009	J01	5/21/24
14	T33927010	J02	5/21/24
15	T33927011	M01	5/21/24
16	T33927012	M02	5/21/24
17	T33927013	M03	5/21/24
18	T33927014	PB01	5/21/24
19	T33927015	PB02	5/21/24
20	T33927016	PB03	5/21/24
21	T33927017	PB04	5/21/24

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

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

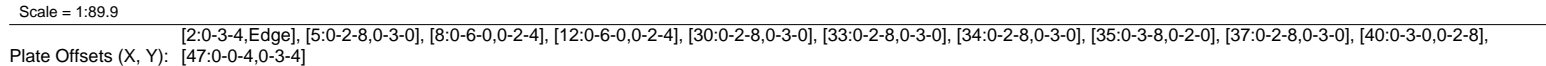
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



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

May 21, 2024

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:50 Page: 1
ID:vK2eYWxlpGgaAZaTnVORMzEbo?-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LUMBER		4-45=939/116, 6-32=719/112, 32-37=33/840, 8-37=23/639, 31-40=69/838, 12-40=86/888, 30-41=510/59, 12-41=495/56, 17-26=1435/117, 26-49=519/134, 49-50=529/137, 21-50=547/145, 31-39=213/91, 10-39=182/78, 8-52=145/0, 38-52=404/0, 31-38=489/23, 5-34=0/196, 4-34=19/147, 5-33=453/72, 6-33=0/572, 3-36=2084/161, 3-35=161/2961, 30-42=27/41, 42-44=57/68, 44-46=16/832, 14-46=0/591, 29-43=1070/131, 14-43=813/88, 29-47=142/1505, 47-48=76/1524, 17-48=60/1393, 7-37=222/87, 37-38=79/90, 38-51=0/105, 39-51=34/72, 39-40=19/85, 40-41=64/60, 41-42=36/68, 42-45=48/56, 43-45=162/68, 43-47=46/46, 11-40=88/20, 13-44=107/54, 45-46=276/24, 15-47=64/19, 28-47=20/49, 16-48=150/36, 27-48=297/52, 19-49=301/63, 25-49=317/66, 20-50=57/177, 24-50=44/165, 9-51=78/32, 37-52=0/291
TOP CHORD	2x4 SP No.2	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component. 5) Provide adequate drainage to prevent water ponding. 6) All plates are 2x4 MT20 unless otherwise indicated. 7) Gable studs spaced at 2-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 10) All bearings are assumed to be SP No.2 . 11) Provide mechanical connection for others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2, 442 lb uplift at joint 23, 97 lb uplift at joint 26 and 49 lb uplift at joint 24.
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 (5-7-8 max.): 8-12.	
BOT CHORD	Rigid ceiling directly applied.	
WEBS	1 Row at midpt 6-32, 17-26, 8-31	
JOINTS	1 Brace at Jt(s): 37, 39, 40, 41, 42, 43, 47, 51	
REACTIONS		
(size)	2=0-3-8, 23=3-11-8, 24=3-11-8, 25=3-11-8, 26=3-11-8, 36=0-3-8	
Max Horiz	2=287 (LC 11)	
Max Uplift	2=67 (LC 8), 23=442 (LC 25), 24=49 (LC 23), 26=97 (LC 12)	
Max Grav	2=85 (LC 23), 23=20 (LC 12), 24=61 (LC 11), 25=104 (LC 19), 26=2420 (LC 17), 36=2333 (LC 17)	
FORCES		
(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/22, 2-3=172/1180, 3-4=1776/143, 4-6=2214/226, 6-7=1454/252, 7-8=1239/246, 8-9=1082/256, 9-10=1082/256, 10-11=1082/256, 11-12=1082/256, 21-23=2/397, 12-13=996/258, 13-14=1005/216, 14-15=617/166, 15-16=644/145, 16-17=591/116, 17-19=12/312, 19-20=49/434, 20-21=58/302, 21-22=0/43	
BOT CHORD	2-36=994/85, 35-36=994/85, 32-35=178/1999, 31-32=88/1279, 29-31=58/872, 28-29=356/161, 27-28=356/161, 26-27=356/161, 25-26=74/80, 24-25=74/80, 23-24=74/80	
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=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3-1 1-6-0 to 3-3-10, Zone1 3-3-10 to 26-9-12, Zone2 26-9-12 to 33-7-4, Zone1 33-7-4 to 35-2-3, Zone2 35-2-3 to 41-11-10, Zone1 41-11-10 to 49-6-0 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		

uplift at joint 25, 37 to uplift at joint 26 and 49 to joint 24.



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Date:

May 21, 2024

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of 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/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcscomponents.com)

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Shaw
0524-036	A01	Piggyback Base Structural Gable	2	1	T33926997 Job Reference (optional)

- 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.
- 13) 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

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

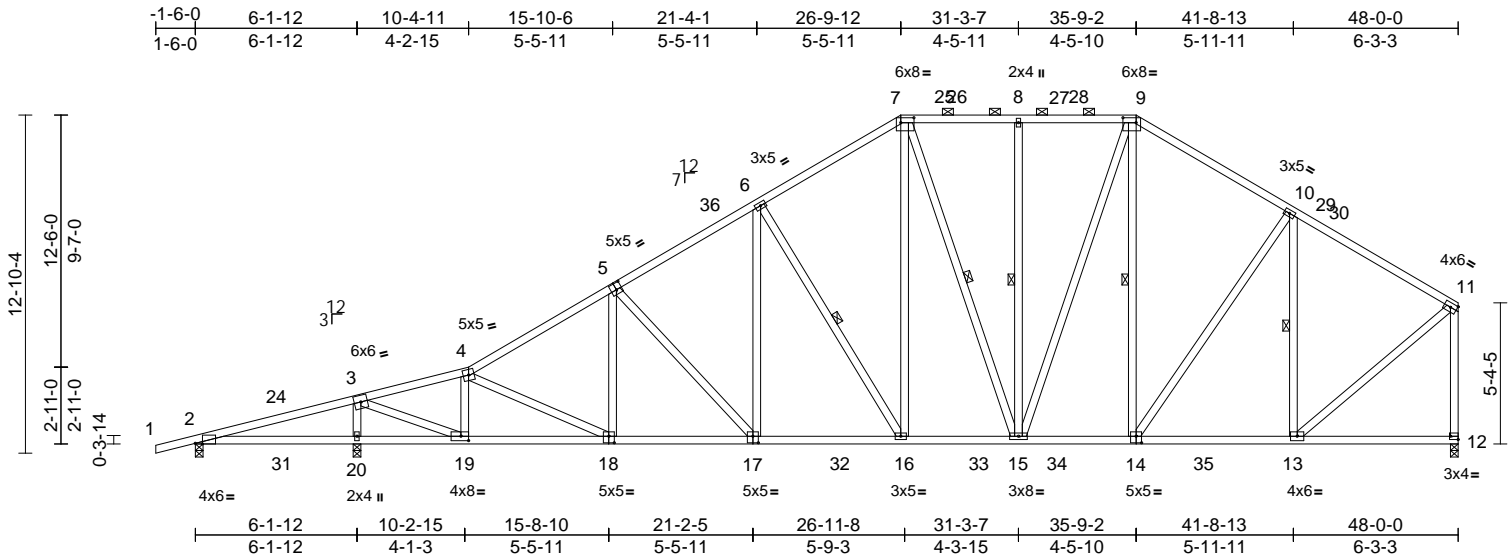
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Job	Truss	Truss Type	Qty	Ply	Shaw	T33926998
0524-036	A02	Piggyback Base	3	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:87.6

Plate Offsets (X, Y): [2:0-3-4,Edge], [5:0-2-8,0-3-0], [7:0-6-0,0-2-4], [9:0-6-0,0-2-4], [12:Edge,0-1-8], [14:0-2-8,0-3-0], [17:0-2-8,0-3-0], [18:0-2-8,0-3-0], [19:0-3-8,0-2-0]

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	0.84	Vert(LL)	-0.17	16-17	>999	240	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.30	16-17	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.07	12	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							
Weight: 358 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 (4-8-12 max.): 7-9.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 9-14, 10-13, 8-15, 7-15

REACTIONS (size) 2=0-3-8, 12=0-3-8, 20=0-3-8
Max Horiz 2=285 (LC 11)
Max Uplift 2=-118 (LC 8), 20=-53 (LC 12)
Max Grav 2=49 (LC 23), 12=1868 (LC 18), 20=2577 (LC 17)

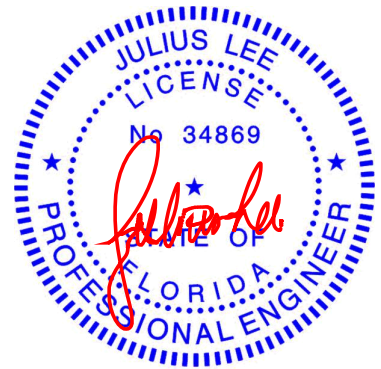
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/22, 2-3=-204/1371, 3-4=-2052/115, 7-8=-1522/294, 8-9=-1522/294, 9-10=-1635/283, 10-11=-1443/202, 11-12=-1776/250, 4-6=-2620/249, 6-7=-1903/294
BOT CHORD 2-20=-1181/65, 19-20=-1181/65, 16-19=-235/2342, 15-16=-152/1667, 13-15=-155/1371, 12-13=-66/82
WEBS 4-19=-1111/147, 6-16=-759/126, 7-16=-45/873, 9-15=-73/634, 9-14=-167/92, 10-14=0/353, 10-13=-693/164, 11-13=-116/1484, 8-15=-279/105, 7-15=-227/78, 5-18=0/173, 4-18=-65/221, 5-17=-410/60, 6-17=0/540, 3-20=-2367/204, 3-19=-173/3455

NOTES

1) 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=48ft; eave=6ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 3-3-10,
Zone1 3-3-10 to 26-9-12, Zone2 26-9-12 to 33-7-4,
Zone1 33-7-4 to 35-9-2, Zone2 35-9-2 to 42-6-9, Zone1
42-6-9 to 47-10-4 zone; cantilever left and right
exposed ; end vertical left and right exposed; porch left
exposed;C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 118 lb uplift at joint
2 and 53 lb uplift at joint 20.
- 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



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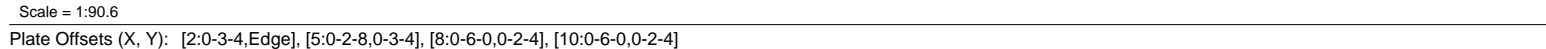
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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LUMBER		WEBS	3-27=63/82, 3-25=505/57, 4-25=51/250, 23-25=400/72, 4-23=314/99, 5-22=191/1448, 8-20=126/471, 15-17=124/631, 12-17=0/234, 12-15=599/161, 13-15=74/899, 10-18=189/170, 8-19=126/116, 10-19=49/434, 9-19=290/115, 6-21=21/490, 6-22=879/203, 7-21=28/264, 7-20=386/158, 11-18=98/168	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.
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 (5-9-14 max.): 8-10.			
BOT CHORD	Rigid ceiling directly applied. Except:			
LOAD CASE(S)	Standard			

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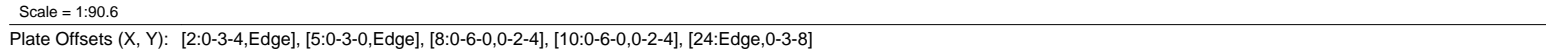
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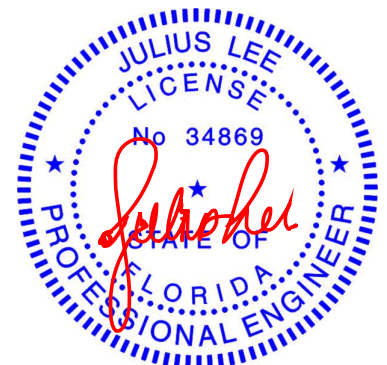
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LUMBER		3-26=-159/200, 3-25=-799/498,	9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
TOP CHORD	2x4 SP No.2	4-25=-287/441, 23-25=-309/26,	10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
BOT CHORD	2x4 SP No.2	4-23=-640/462, 5-22=-276/1549,	
WEBS	2x4 SP No.2	8-20=-43/430, 15-17=-106/609, 12-17=0/212,	LOAD CASE(S) Standard
BRACING		12-15=-576/142, 13-15=-51/871,	
TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-11-15 max.): 8-10.	6-21=-74/553, 6-22=-946/259, 7-21=0/230,	
BOT CHORD	Rigid ceiling directly applied. Except:	7-20=-348/81, 10-18=-212/172,	
1 Row at midpt	11-17	8-19=-217/123, 10-19=-10/382,	
WEBS	1 Row at midpt	9-19=-291/116, 11-18=-103/179	
REACTIONS (size)		NOTES	
	2=0-3-8, 14=0-3-8, 24=0-3-8	1) Unbalanced roof live loads have been considered for this design.	
Max Horiz	2=285 (LC 11)	2) Wind: ASCE 7-22; Vult=130mph (3-second gust)	
Max Uplift	2=-140 (LC 12), 24=-165 (LC 12)	Vasd=101mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft;	
Max Grav	2=431 (LC 23), 14=1179 (LC 1), 24=2318 (LC 1)	B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed;	
FORCES (lb) - Maximum Compression/Maximum Tension		MWFRS (directional) and C-C Zone3 -1-6-0 to 3-3-10, Zone1 3-3-10 to 26-9-12, Zone2 26-9-12 to 33-7-4, Zone1 33-7-4 to 35-9-2, Zone2 35-9-2 to 42-6-9, Zone1 42-6-9 to 47-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60	
TOP CHORD	1-2=0/22, 2-3=-561/668, 3-4=-88/443, 4-6=-693/1165, 6-7=-1161/144, 7-8=-1055/215, 8-9=-913/200, 9-10=-913/200, 10-11=-939/269, 11-12=-991/207, 12-13=-852/159, 13-14=-1125/173	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.	
BOT CHORD	2-26=-541/526, 25-26=-541/526, 24-25=-51/0, 23-24=-2270/526, 5-23=-1798/377, 22-23=-964/443, 21-22=0/662, 20-21=-49/1002, 19-20=-45/982, 18-19=-66/829, 17-18=-61/803, 16-17=0/102, 11-17=-181/0, 15-16=-1/95, 14-15=-65/81	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.	

- 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



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May 21, 2024

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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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Components Association (www.sbcsccomponents.com)

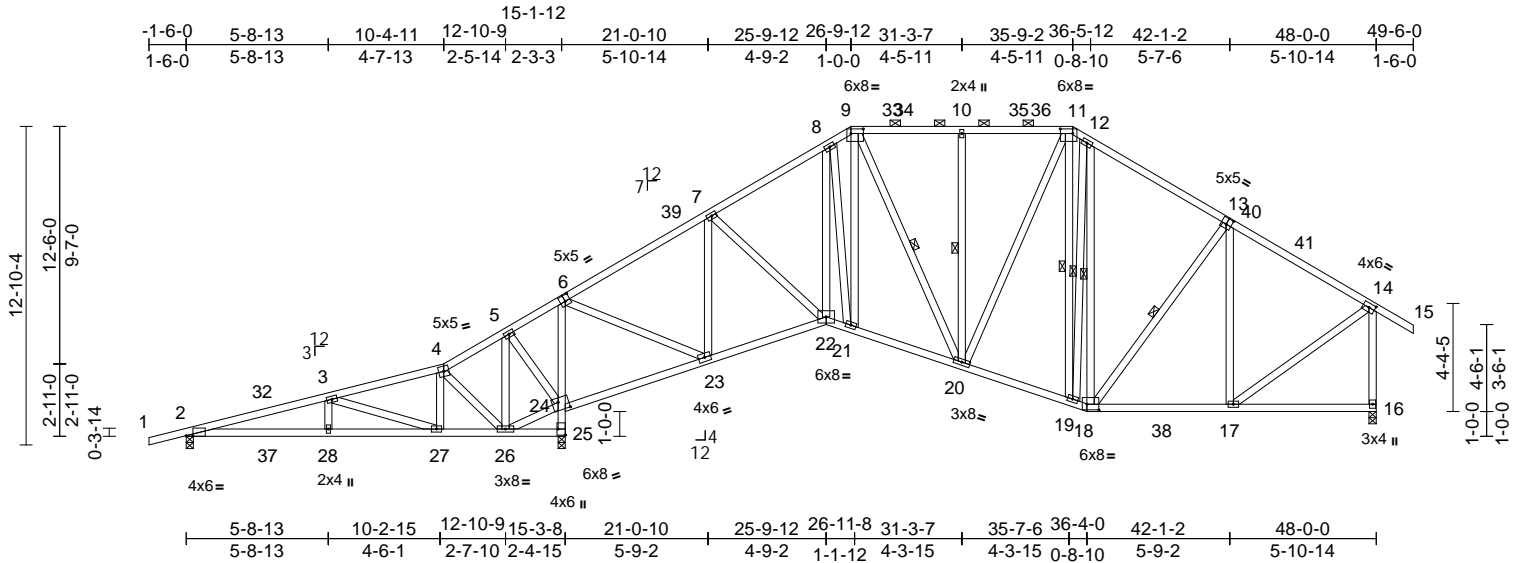
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Shaw	T33927001
0524-036	A05	Piggyback Base	3	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:52
ID:BGJBxJxQ2uWZY2L2sM5PzzEcTN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:92.9

Plate Offsets (X, Y): [2:0-3-4,Edge], [6:0-2-8,0-3-0], [9:0-6-0,0-2-4], [11:0-6-0,0-2-4], [13:0-2-8,0-3-0], [14:0-2-14,0-2-0], [18:0-5-12,0-2-12], [24:0-5-0,0-4-0], [25:Edge,0-3-8]

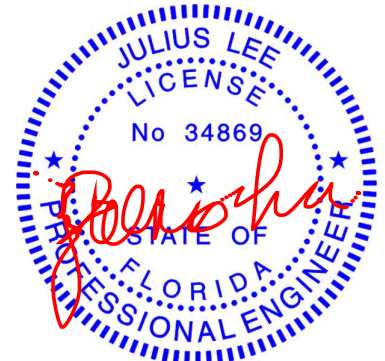
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.08	28-31	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.11	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.06	16	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 386 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 (5-8-13 max.): 9-11.	
BOT CHORD	Rigid ceiling directly applied.	
WEBS	1 Row at midpt 11-19, 12-19, 12-18, 9-20, 10-20, 13-18	
REACTIONS (size)		
	2=0-3-8, 16=0-3-8, 25=0-3-8	
Max Horiz	2=269 (LC 11)	
Max Uplift	2=-144 (LC 12), 16=-25 (LC 12), 25=-163 (LC 12)	
Max Grav	2=433 (LC 23), 16=1445 (LC 18), 25=2476 (LC 17)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-2=0/22, 2-3=-587/662, 3-4=-64/538, 9-10=-1032/189, 10-11=-1032/189, 14-16=-1359/230, 4-5=-234/856, 5-7=-809/1249, 7-8=-1306/119, 8-9=-1197/194, 11-12=-1097/283, 12-14=-1121/210, 14-15=0/50	
BOT CHORD	2-28=-548/557, 27-28=-548/557, 26-27=-405/0, 25-26=-75/0, 24-25=-2455/538, 6-24=-1915/323, 23-24=-1054/441, 22-23=0/785, 21-22=0/1198, 20-21=0/1185, 19-20=0/963, 18-19=-3/920, 17-18=-40/869, 16-17=-44/66	

WEBS		3-28=-171/219, 3-27=-905/537, 4-27=-251/406, 6-23=-242/1731, 9-21=-18/515, 14-17=0/1016, 7-22=-48/589, 7-23=-978/234, 8-22=0/270, 8-21=-384/57, 11-19=-231/211, 12-19=-147/201, 12-18=-195/3, 9-20=-213/117, 11-20=0/432, 10-20=-292/116, 13-18=-57/114, 13-17=-401/78, 5-26=-386/650, 4-26=-411/309, 24-26=-626/227, 5-24=-638/369
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- 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=48ft; eave=6ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 3-3-10, Zone1 3-3-10 to 26-9-12, Zone2 26-9-12 to 33-7-4, Zone1 33-7-4 to 35-9-2, Zone2 35-9-2 to 42-6-9, Zone1 42-6-9 to 49-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 3x5 MT20 unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) All bearings are assumed to be SP No.2 .
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 2, 163 lb uplift at joint 25 and 25 lb uplift at joint 16.

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S)** Standard



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

May 21,2024

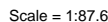
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:52 Page: 1
ID:8034B3? YdUDUxVmS89ozJzEcS0-RfC?PsB70Hq3NSqPanL8w3ulTXbGKWkrCDoi7J4zJC?f



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)	-0.06	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.06	23-26	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.02	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 352 lb	FT = 20%

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 1-6-0 to 3-3-10,
Zone1 3-3-10 to 26-9-12, Zone2 26-9-12 to 33-7-4,
Zone1 33-7-4 to 35-9-2, Zone2 35-9-2 to 42-6-9, Zone1
42-6-9 to 47-10-4 zone; cantilever left and right
exposed ; end vertical left and right exposed;C-C for
members and forces & MWFRS for exposures shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x5 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 8) All bearings are assumed to be SP No.2 .
- 9) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 34 lb uplift at joint
2.
- 10) This truss design requires that a minimum of 7/16"
structural wood sheathing be applied directly to the top
chord and 1/2" gypsum sheetrock be applied directly to
the bottom chord.
- 11) Graphical purlin representation does not depict the size or
the orientation of the purlin along the top and/or
bottom chord.

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



May 21, 2024



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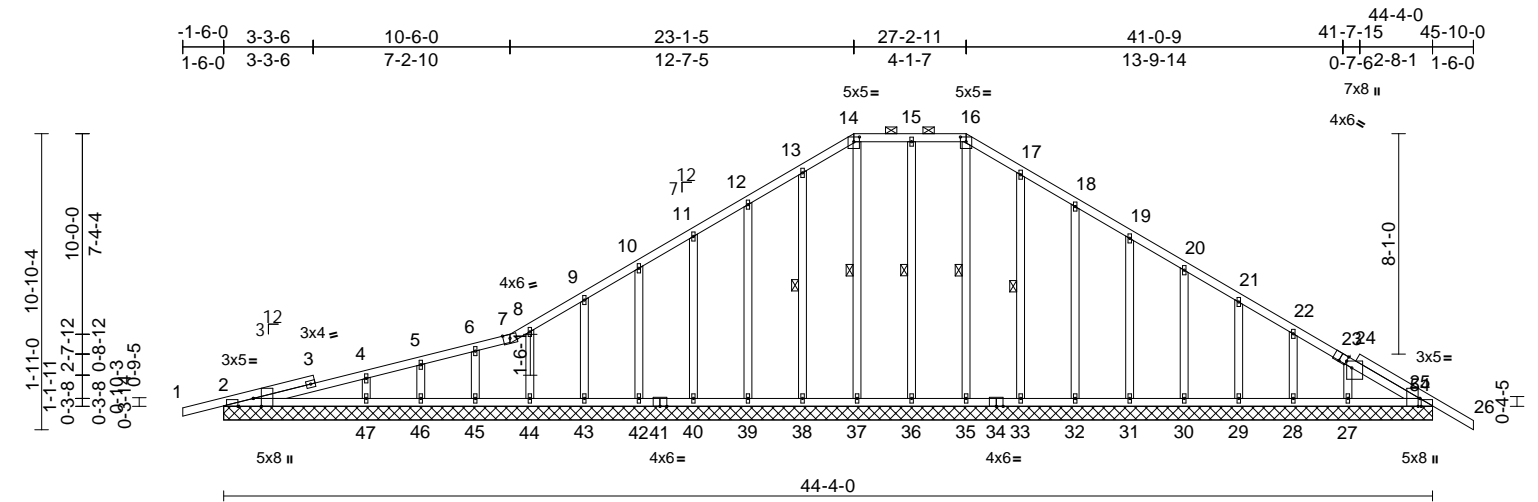
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-LS.com

Job	Truss	Truss Type	Qty	Ply	Shaw	T33927003
0524-036	B01	Piggyback Base Supported Gable	2	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:52
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Page: 1



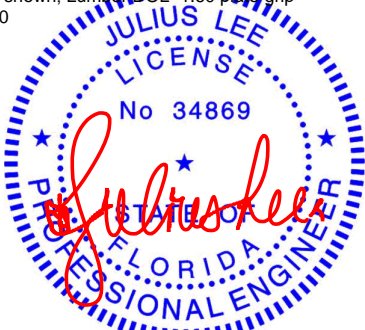
Scale = 1:84.5

Plate Offsets (X, Y): [2:0-3-8,Edge], [2:0-6-12,Edge], [14:0-2-8,0-2-1], [16:0-2-8,0-2-1], [23:0-3-0,Edge], [24:0-3-0,0-2-4], [25:0-3-8,Edge], [25:0-0-9,Edge]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.24	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	0.12	Horz(CT)	0.01	51	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 298 lb	FT = 20%

LUMBER		Max Grav	2=281 (LC 23), 25=219 (LC 24), 27=196 (LC 18), 28=156 (LC 24), 29=162 (LC 18), 30=160 (LC 18), 31=161 (LC 18), 32=160 (LC 18), 33=164 (LC 18), 35=152 (LC 1), 36=175 (LC 23), 37=155 (LC 17), 38=161 (LC 17), 39=161 (LC 17), 40=161 (LC 17), 42=160 (LC 17), 43=166 (LC 17), 44=154 (LC 23), 45=188 (LC 23), 46=52 (LC 1), 47=392 (LC 23), 48=281 (LC 23), 51=219 (LC 24)	WEBS	16-35=-112/0, 15-36=-135/56, 14-37=-115/0, 13-38=-121/99, 12-39=-121/115, 11-40=-121/109, 10-42=-120/110, 9-43=-125/112, 8-44=-117/98, 6-45=-134/84, 5-46=-63/67, 4-47=-252/127, 17-33=-124/104, 18-32=-120/114, 19-31=-121/109, 20-30=-121/111, 21-29=-121/110, 22-28=-121/113, 24-27=-143/108
BRACING					
TOP CHORD	Structural wood sheathing directly applied, except				
BOT CHORD	2-0-0 oc purlins (6-0-0 max.): 14-16.				
WEBS	Rigid ceiling directly applied.				
	1 Row at midpt 16-35, 15-36, 14-37, 13-38, 17-33				
REACTIONS (size)					
	2=44-4-0, 25=44-4-0, 27=44-4-0, 28=44-4-0, 29=44-4-0, 30=44-4-0, 31=44-4-0, 32=44-4-0, 33=44-4-0, 35=44-4-0, 36=44-4-0, 37=44-4-0, 38=44-4-0, 39=44-4-0, 40=44-4-0, 42=44-4-0, 43=44-4-0, 44=44-4-0, 45=44-4-0, 46=44-4-0, 47=44-4-0, 48=44-4-0, 51=44-4-0				
Max Horiz	2=183 (LC 11), 48=183 (LC 11)				
Max Uplift	2=-34 (LC 12), 25=-39 (LC 12), 28=-22 (LC 12), 29=-14 (LC 12), 30=-16 (LC 12), 31=-16 (LC 12), 32=-18 (LC 12), 33=-13 (LC 12), 38=-11 (LC 12), 39=-19 (LC 12), 40=-16 (LC 12), 42=-16 (LC 12), 43=-17 (LC 12), 44=-12 (LC 12), 46=-11 (LC 12), 48=-34 (LC 12), 51=-39 (LC 12)				
FORCES		(lb) - Maximum Compression/Maximum Tension			
TOP CHORD	1-2=0/22, 2-4=-121/128, 4-5=-120/112, 5-6=-109/116, 6-7=-112/113, 14-15=-111/347, 15-16=-111/347, 16-17=-123/372, 17-18=-101/307, 18-19=-79/237, 19-20=-57/170, 20-21=-37/102, 21-22=-46/48, 22-24=-61/58, 24-25=-102/65, 25-26=0/52, 7-8=-104/120, 8-9=-119/123, 9-10=-105/107, 10-11=-94/173, 11-12=-83/240, 12-13=-103/310, 13-14=-123/371				
BOT CHORD	2-47=-65/194, 46-47=-65/194, 45-46=-65/194, 44-45=-65/194, 43-44=-65/194, 42-43=-65/194, 40-42=-65/194, 39-40=-65/194, 38-39=-65/194, 37-38=-65/194, 36-37=-65/193, 35-36=-65/193, 33-35=-65/193, 32-33=-65/193, 31-32=-65/193, 30-31=-65/193, 29-30=-65/193, 28-29=-65/193, 27-28=-65/193, 25-27=-56/182				

- 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=44ft; 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



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

May 21,2024

Job	Truss	Truss Type	Qty	Ply	Shaw
0524-036	B01	Piggyback Base Supported Gable	2	1	T33927003
					Job Reference (optional)

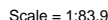
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 2, 39 lb uplift at joint 25, 11 lb uplift at joint 38, 19 lb uplift at joint 39, 16 lb uplift at joint 40, 16 lb uplift at joint 42, 17 lb uplift at joint 43, 12 lb uplift at joint 44, 11 lb uplift at joint 46, 13 lb uplift at joint 33, 18 lb uplift at joint 32, 16 lb uplift at joint 31, 16 lb uplift at joint 30, 14 lb uplift at joint 29, 22 lb uplift at joint 28, 34 lb uplift at joint 2 and 39 lb uplift at joint 25.
- 13) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 14) 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

 **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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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.16	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.29	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 266 lb	FT = 20%

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3 -1-6-0 to 2-11-3,
Zone1 2-11-3 to 22-6-5, Zone3 22-6-5 to 27-9-11, Zone2
27-9-11 to 34-0-14, Zone1 34-0-14 to 45-10-0 zone;
cantilever left and right exposed; end vertical left
and right exposed; porch left exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 114 lb uplift at joint
2, 42 lb uplift at joint 18 and 36 lb uplift at joint 10.
- 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.

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

LOAD CASE(S) Standard



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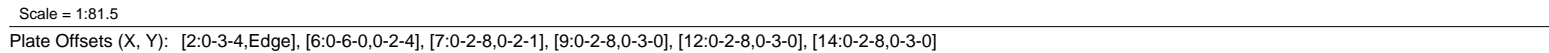
May 21, 2024



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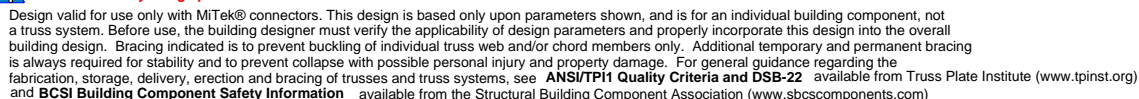


LUMBER		Wind: ASCE 7-22; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;
BOT CHORD	2x4 SP No.2	B=45ft; L=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
WEBS	2x4 SP No.2	MWFRS (directional) and C-C Zone3 -1-6-0 to 2-11-3,
BRACING		Zone1 2-11-3 to 22-6-5, Zone3 22-6-5 to 27-9-11, Zone2
TOP CHORD	Structural wood sheathing directly applied, except	27-9-11 to 34-0-14, Zone1 34-0-14 to 44-4-0 zone;
	2-0-0 oc purlins (4-5-12 max.): 6-7.	cantilever left and right exposed ; end vertical left and
BOT CHORD	Rigid ceiling directly applied.	right exposed; porch left exposed;C-C for members and
WEBS	1 Row at midpt 5-14, 6-13, 8-13	forces & MWFRS for reactions shown; Lumber
REACTIONS		DOL=1.60 plate grip DOL=1.60
	(size) 2=0-3-8, 10=0-3-8, 17=0-3-8	3) Building Designer / Project engineer responsible for
	Max Horiz 2=178 (LC 11)	verifying applied roof live load shown covers rain loading
	Max Uplift 2=112 (LC 8), 17=50 (LC 12)	requirements specific to the use of this truss component.
	Max Grav 2=76 (LC 23), 10=1692 (LC 18), 17=2373 (LC 17)	4) Provide adequate drainage to prevent water ponding.
FORCES		5) This truss has been designed for a 10.0 psf bottom
	(lb) - Maximum Compression/Maximum Tension	chord live load nonconcurrent with any other live loads.
TOP CHORD	1-2=0/22, 2-3=-46/1321, 3-4=-1738/134, 4-5=-2277/255, 5-6=-1896/319, 6-7=-1619/326, 7-8=-1922/326, 8-10=-2904/294	6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
BOT CHORD	2-17=-1177/83, 15-17=-1177/1860, 13-15=-55/2017, 11-13=-161/2453, 10-11=-160/2457	3-06-00 tall by 2-00-00 wide will fit between the bottom
WEBS	4-16=-1003/141, 4-15=-18/210, 5-15=0/250, 5-14=-555/109, 6-14=-11/623, 6-13=-113/218, 7-13=-37/673, 8-13=-733/124, 8-12=-4/512, 9-12=-528/136, 9-11=0/223, 3-17=-2174/193, 3-16=-114/3087	chord and any other members, with BCDL = 10.0psf.
		7) All bearings are assumed to be SP No.2 .
		8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 50 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

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

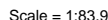


May 21, 2024



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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:53 Page: 1
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.18	19-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.34	19-20	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 302 lb	FT = 20%

- 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=44ft; eave=5ft; Cat. II; Exp B; Enclosed;
MWFRS (directional) and C-C Zone3-1-6-0 to 2-11-3,
Zone1 2-11-3 to 22-6-5, Zone3 22-6-5 to 27-9-11, Zone2
27-9-11 to 33-10-0, Zone1 33-10-0 to 45-10-0 zone;
cantilever left and right exposed ; end vertical left
and right exposed; porch left exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to
bearing plate capable of withstanding 119 lb uplift at joint
2, 36 lb uplift at joint 12 and 40 lb uplift at joint 24.
- 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

NOTES



May 21, 2024



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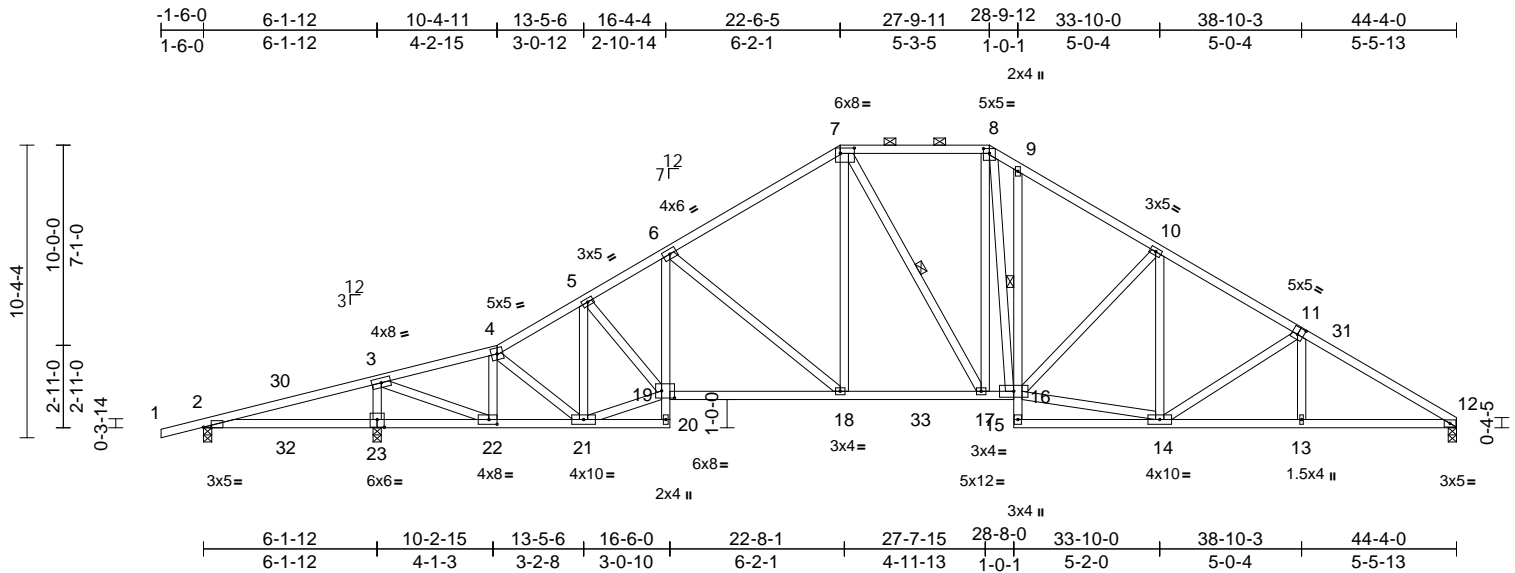
Job	Truss	Truss Type	Qty	Ply	Shaw	T33927007
0524-036	B05	Piggyback Base	3	1	Job Reference (optional)	

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

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Scale = 1:81.5

Plate Offsets (X, Y): [2:0-3-4,Edge], [7:0-6-0,0-2-4], [8:0-2-8,0-2-1], [11:0-2-8,0-3-0], [19:0-5-8,0-3-0], [22:0-3-8,0-2-0], [23:0-3-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.18	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	-0.34	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 299 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 2-0-0 oc purlins (4-4-1 max.): 7-8.

BOT CHORD Rigid ceiling directly applied. Except:

1 Row at midpt 9-16

WEBS 1 Row at midpt 7-17

REACTIONS

(size) 2=0-3-8, 12=0-3-8, 23=0-3-8
Max Horiz 2=178 (LC 11)
Max Uplift 2=117 (LC 8), 23=48 (LC 12)
Max Grav 2=55 (LC 23), 12=1651 (LC 18), 23=2358 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=55/1385, 3-4=1659/128, 4-5=2152/223, 5-6=2568/273, 6-7=2020/314, 7-8=1732/328, 8-9=2091/381, 9-10=2147/329, 10-12=2843/286

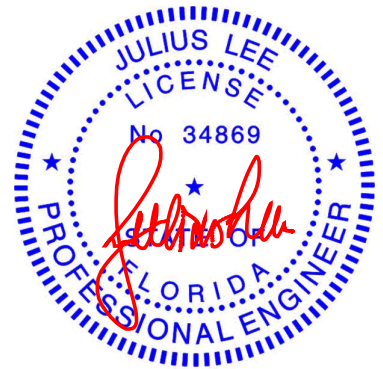
BOT CHORD 2-22=-1233/90, 21-22=-30/1720, 20-21=-31/65, 19-20=0/56, 6-19=0/465, 18-19=-67/2320, 17-18=-16/1758, 16-17=-45/1740, 15-16=0/103, 9-16=-151/97, 14-15=0/235, 13-14=-159/2402, 12-13=-157/2406

WEBS 4-22=-1017/128, 6-18=-735/121, 7-18=0/688, 3-23=-2137/201, 3-22=-116/3047, 5-19=-14/526, 5-21=-766/62, 4-21=-41/301, 19-21=-35/2011, 8-17=0/326, 7-17=-122/218, 8-16=-135/672, 10-16=-372/82, 10-14=-17/142, 11-14=-491/136, 14-16=-123/1792, 11-13=0/208

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=44ft; eave=5ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Zone3 -1-6-0 to 2-11-3, Zone1 2-11-3 to 22-6-5, Zone3 22-6-5 to 27-9-11, Zone2 27-9-11 to 33-10-0, Zone1 33-10-0 to 44-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 2 and 48 lb uplift at joint 23.
- 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:

May 21,2024

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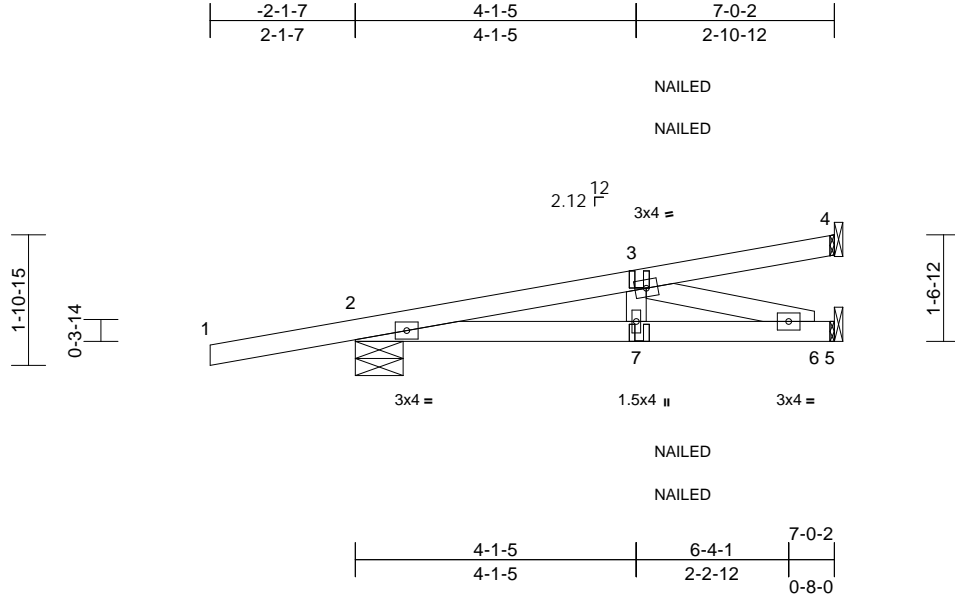
Job	Truss	Truss Type	Qty	Ply	Shaw	T33927008
0524-036	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:54

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.01	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.03	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 2=0-8-6, 4= Mechanical, 5= Mechanical
Max Horiz 2=58 (LC 4)
Max Uplift 2=101 (LC 4), 4=29 (LC 4), 5=5 (LC 4)
Max Grav 2=431 (LC 1), 4=74 (LC 1), 5=197 (LC 13)

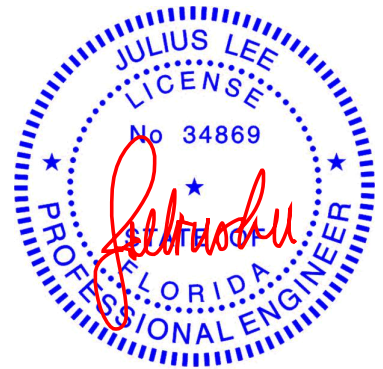
FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-658/42, 3-4=-17/10
BOT CHORD 2-7=-65/648, 6-7=-65/648, 5-6=0/0
WEBS 3-7=0/155, 3-6=-674/68

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) Bearings are assumed to be: , Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 4, 101 lb uplift at joint 2 and 5 lb uplift at joint 5.
 - 8) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-15 (F=-7, B=-7)



Julius Lee PE No. 34869
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Date:

May 21,2024

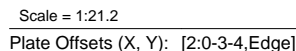
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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LOAD CASE(S) Standard

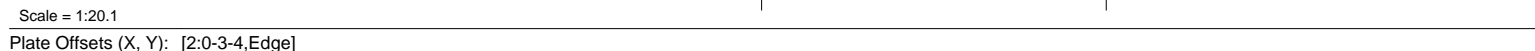
NOTES

- **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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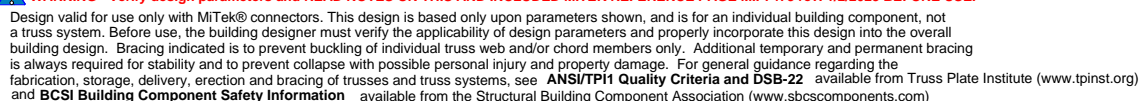


LUMBER		7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 3 and 57 lb uplift at joint 2.
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
BRACING		LOAD CASE(S) Standard
TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.	
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	

- 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 ; and vertical left and right exposed; C-C
for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for
verifying applied roof live load shown covers rain loading
requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom
chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf
on the bottom chord in all areas where a rectangle
3-06-00 tall by 2-00-00 wide will fit between the bottom
chord and any other members.
- 5) Bearings are assumed to be ; Joint 2 SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



May 21, 2024



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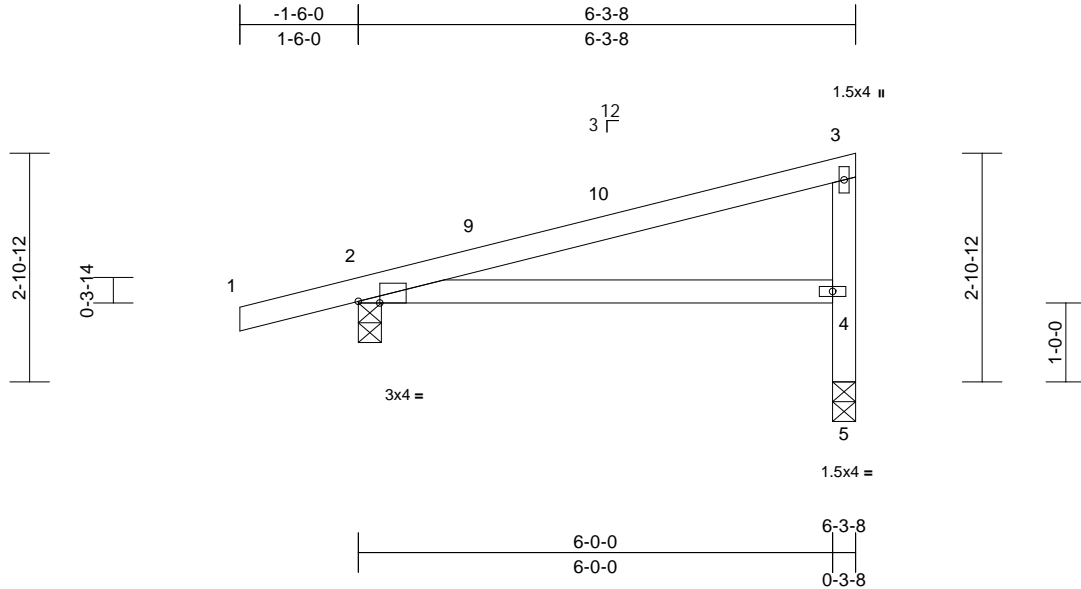
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0524-036	M01	Monopitch	9	1	Job Reference (optional)	T33927011

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

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Scale = 1:29.2

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	0.48	Vert(LL)	0.10	4-8	>775	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.14	4-8	>532	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=0-3-8, 5=0-3-8
Max Horiz 2=108 (LC 9)
Max Uplift 2=61 (LC 8), 5=38 (LC 12)
Max Grav 2=347 (LC 1), 5=237 (LC 17)

FORCES

(lb) - Maximum Compression/Maximum Tension

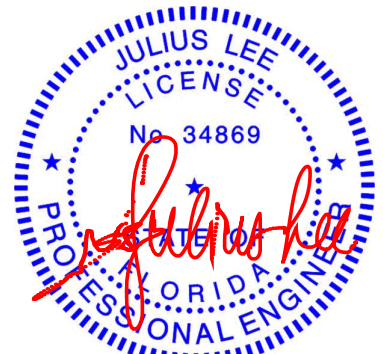
TOP CHORD 1-2=0/22, 2-3=150/70, 4-5=237/233,
3-4=158/224
BOT CHORD 2-4=147/187

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 6-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 .

- 6) Bearing at joint(s) 5 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 61 lb uplift at joint 2 and 38 lb uplift at joint 5.

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:

May 21,2024

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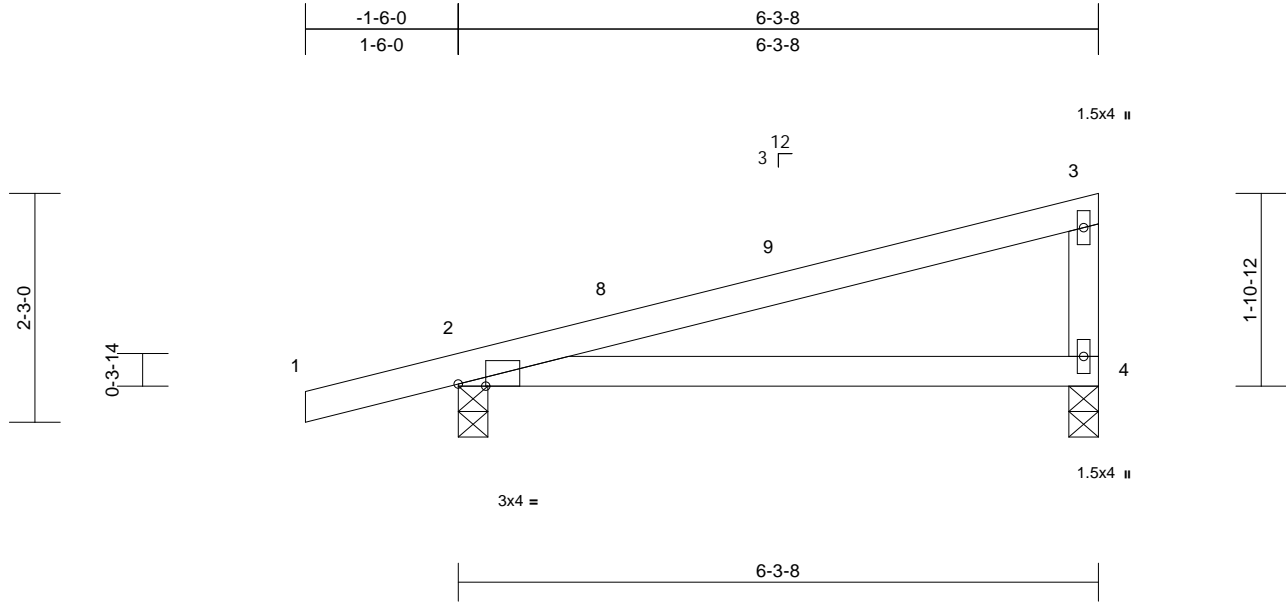
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Shaw	
0524-036	M02	Monopitch	9	1	Job Reference (optional)	T33927012

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:54
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Page: 1



Scale = 1:22.6

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	0.44	Vert(LL)	0.09	4-7	>852	240	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.13	4-7	>577	180	244/190
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: 23 lb FT = 20%

LUMBER

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

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=49 (LC 11)
Max Uplift 2=-69 (LC 12), 4=-24 (LC 12)
Max Grav 2=347 (LC 1), 4=235 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-3=-139/44, 3-4=-159/209
BOT CHORD 2-4=-89/161

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 6-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 .
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 69 lb uplift at joint 2.



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

May 21,2024

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Mayo Truss Company, Inc., Mayo, FL - 32066, Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Tue May 21 14:03:04 Page: 1
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LUMBER		<p>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.</p> <p>7) 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.</p> <p>8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 61 lb uplift at joint 7.</p> <p>9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.</p> <p>10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 50 lb up at 5-0-0 on top chord, and 215 lb down and 6 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.</p> <p>11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).</p>
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.2	
OTHERS	2x4 SP No.2	
BRACING		<p>LOAD CASE(S) Standard</p>
TOP CHORD	Structural wood sheathing directly applied or 4-5-15 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS		
(lb/size)	2=656/0-3-8, 7=705/0-3-8	
Max Horiz	2=90 (LC 5)	
Max Uplift	2=-94 (LC 8), 7=-61 (LC 5)	
Max Grav	2=656 (LC 1), 7=707 (LC 13)	
FORCES		
(lb) - Max. Comp./Max. Ten. - All forces	250	
(lb) or less except when shown.		
TOP CHORD	2-3=-151/122, 5-7=707/61	
BOT CHORD	2-6=-158/1485, 6-14=-150/1525, 14-15=-150/1525, 5-15=-150/1525	
WEBS	3-6=0/411, 3-5=-1412/111	

- ## 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; Partially Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2 and 61 lb uplift at joint 7.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 102 lb down and 50 lb up at 5-0-0 on top chord, and 215 lb down and 6 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25,
Plate Increase=1.25
Uniform Loads (lb/ft)
Vert: 1-3=-60, 3-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-206 (F), 3=-63 (F), 12=-63 (F), 13=-70 (F),
14=-41 (F), 15=-44 (F)



May 21, 2024



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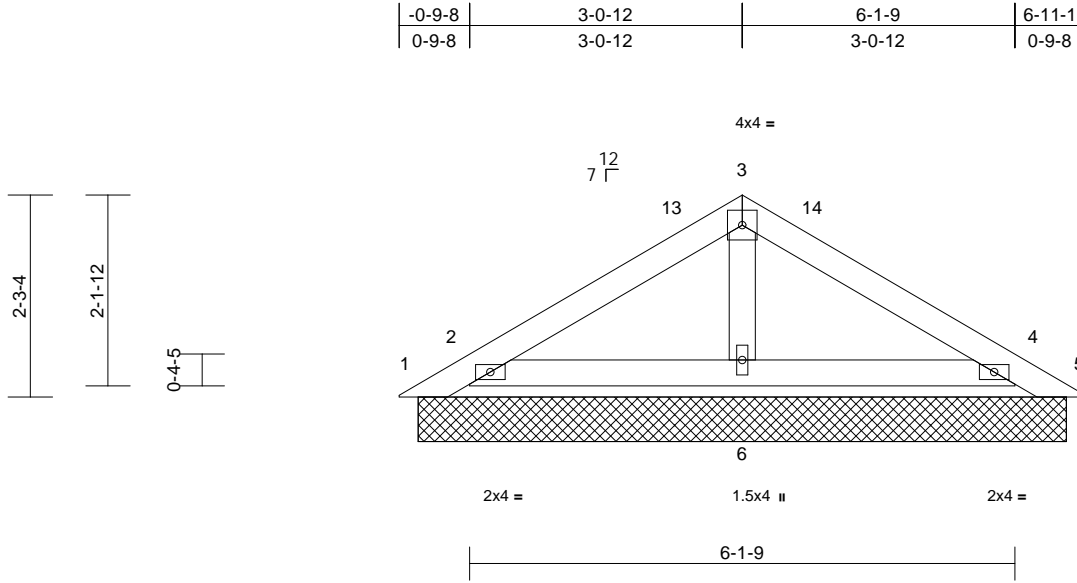
MiTek[®]
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Shaw	T33927014
0524-036	PB01	Piggyback	2	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:54
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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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=7-3-7, 2=7-3-7, 4=7-3-7, 5=7-3-7,
6=7-3-7, 7=7-3-7, 10=7-3-7

Max Horiz 1=36 (LC 11)
Max Uplift 1=-116 (LC 17), 2=-19 (LC 12),
4=-26 (LC 12), 5=-102 (LC 24),
7=-19 (LC 12), 10=-26 (LC 12)
Max Grav 1=15 (LC 12), 2=306 (LC 23),
4=293 (LC 24), 5=16 (LC 12),
6=190 (LC 1), 7=306 (LC 23),
10=293 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension

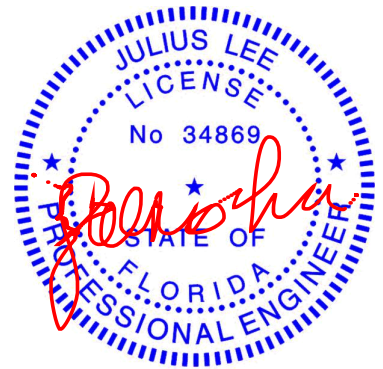
TOP CHORD 1-2=-36/101, 2-3=-78/78, 3-4=-78/73,
4-5=-45/73
BOT CHORD 2-6=-38/47, 4-6=-39/48
WEBS 3-6=-101/35

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 0-10-10 to
3-10-10, Zone1 3-10-10 to 4-5-11, Zone3 4-5-11 to
8-0-11 zone; cantilever left and right exposed; end
vertical left and right exposed; C-C for members and
forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06-00 tall by 2'-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2, 26 lb uplift at joint 4, 116 lb uplift at joint 1, 102 lb uplift at joint 5, 19 lb uplift at joint 2 and 26 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:

May 21, 2024

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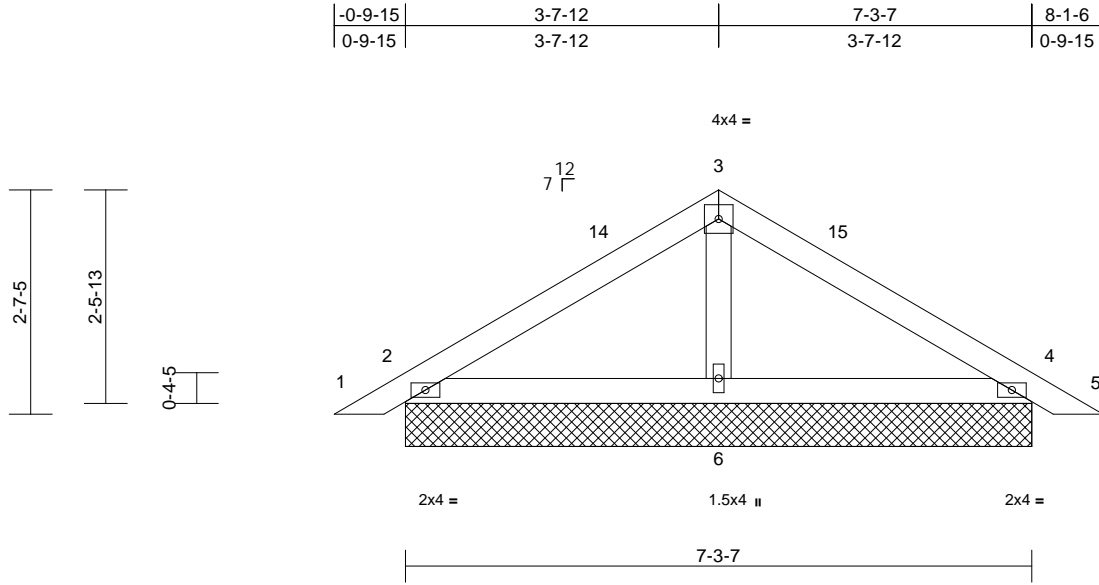
Job	Truss	Truss Type	Qty	Ply	Shaw	T33927015
0524-036	PB02	Piggyback	17	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:54

Page: 1

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Scale = 1:26.8

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							Weight: 29 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=7-3-7, 4=7-3-7, 6=7-3-7, 7=7-3-7, 11=7-3-7
Max Horiz	2=-42 (LC 10), 7=-42 (LC 10)
Max Uplift	2=-26 (LC 12), 4=-26 (LC 12), 7=-26 (LC 12), 11=-26 (LC 12)
Max Grav	2=194 (LC 1), 4=194 (LC 1), 6=260 (LC 1), 7=194 (LC 1), 11=194 (LC 1)

FORCES

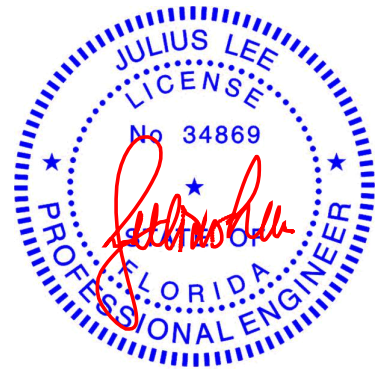
	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-111/98, 3-4=-111/88, 4-5=0/16
BOT CHORD	2-6=-7/55, 4-6=-16/55
WEBS	3-6=-118/34

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 0-3-8 to 3-3-8, Zone1 3-3-8 to 4-5-11, Zone3 4-5-11 to 8-7-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 26 lb uplift at joint 4, 26 lb uplift at joint 2 and 26 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:

May 21,2024

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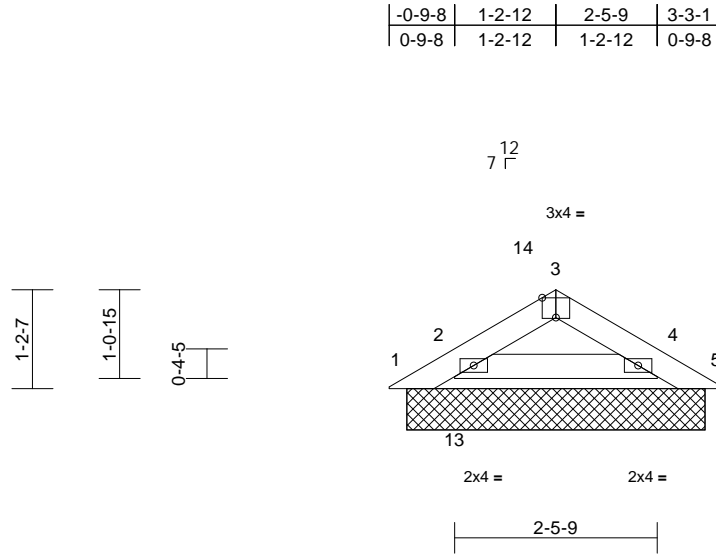
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Shaw	T33927016
0524-036	PB03	Piggyback	2	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:55
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Page: 1



Scale = 1:28

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(TL)	n/a	-	n/a	999	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	9	n/a	n/a	
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS							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.
BOT CHORD Rigid ceiling directly applied.

REACTIONS

(size) 1=3-7-7, 2=3-7-7, 4=3-7-7, 5=3-7-7,
6=3-7-7, 9=3-7-7
Max Horiz 1=18 (LC 11)
Max Uplift 1=-12 (LC 17), 5=-28 (LC 3)
Max Grav 1=10 (LC 11), 2=197 (LC 1), 4=159
(LC 1), 5=-6 (LC 12), 6=197 (LC 1),
9=159 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum
Tension

TOP CHORD 1-2=-19/37, 2-3=-67/47, 3-4=-62/52, 4-5=0/30
BOT CHORD 2-4=-51/51

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 zone; cantilever
left and right exposed; end vertical left and right
exposed; C-C for members and forces & MWFRS for
reactions shown; Lumber DOL=1.60 plate grip
DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1 and 28 lb uplift at joint 5.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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

May 21,2024

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

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

MiTek®

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

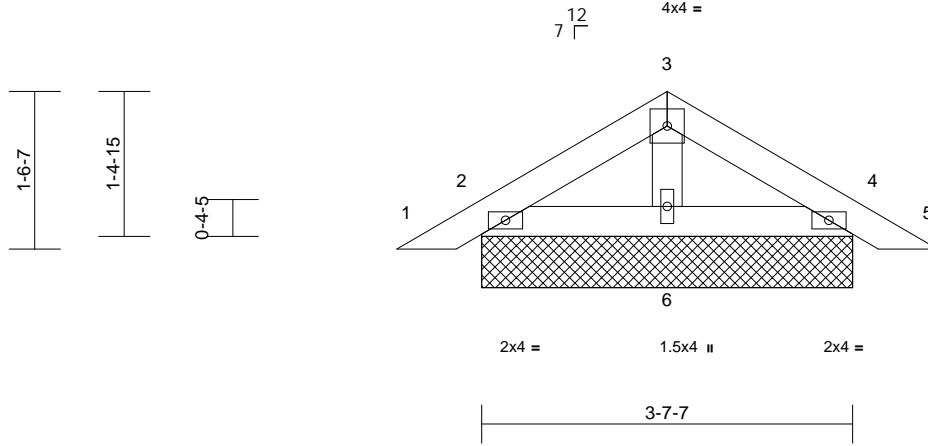
Job	Truss	Truss Type	Qty	Ply	Shaw	T33927017
0524-036	PB04	Piggyback	12	1	Job Reference (optional)	

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

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Mon May 20 13:27:55
ID:FaYjGFVKyWLR65xGFGq11zEcMC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1

-0-9-15	1-9-11	3-7-7	4-5-6
0-9-15	1-9-11	1-9-11	0-9-15



Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.03	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.03	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-AS						Weight: 16 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size) 2=3-7-7, 4=3-7-7, 6=3-7-7, 7=3-7-7, 11=3-7-7
Max Horiz 2=-24 (LC 10), 7=-24 (LC 10)
Max Uplift 2=-21 (LC 12), 4=-21 (LC 12), 7=-21 (LC 12), 11=-21 (LC 12)
Max Grav 2=110 (LC 1), 4=110 (LC 1), 6=135 (LC 1), 7=110 (LC 1), 11=110 (LC 1)

FORCES

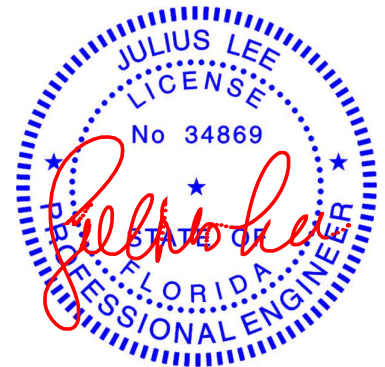
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-34/50, 3-4=-33/45, 4-5=0/16
BOT CHORD 2-6=-4/39, 4-6=-4/39
WEBS 3-6=-62/25

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 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 2, 21 lb uplift at joint 4, 21 lb uplift at joint 2 and 21 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



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

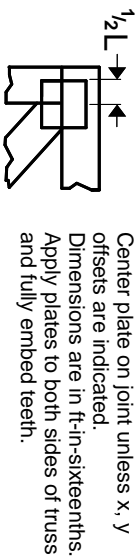
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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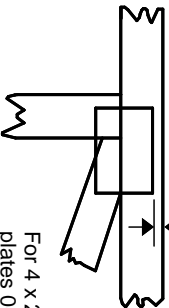
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Chesterfield, MO 63017
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Symbols

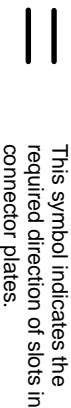
PLATE LOCATION AND ORIENTATION



0- $\frac{1}{16}$ "



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



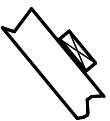
* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

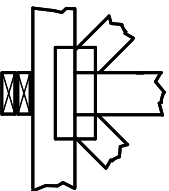
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



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

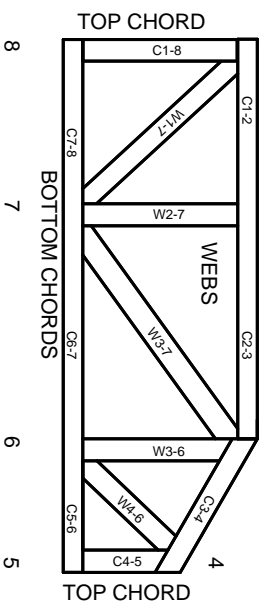
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

1 2 3 Joint ID typ.



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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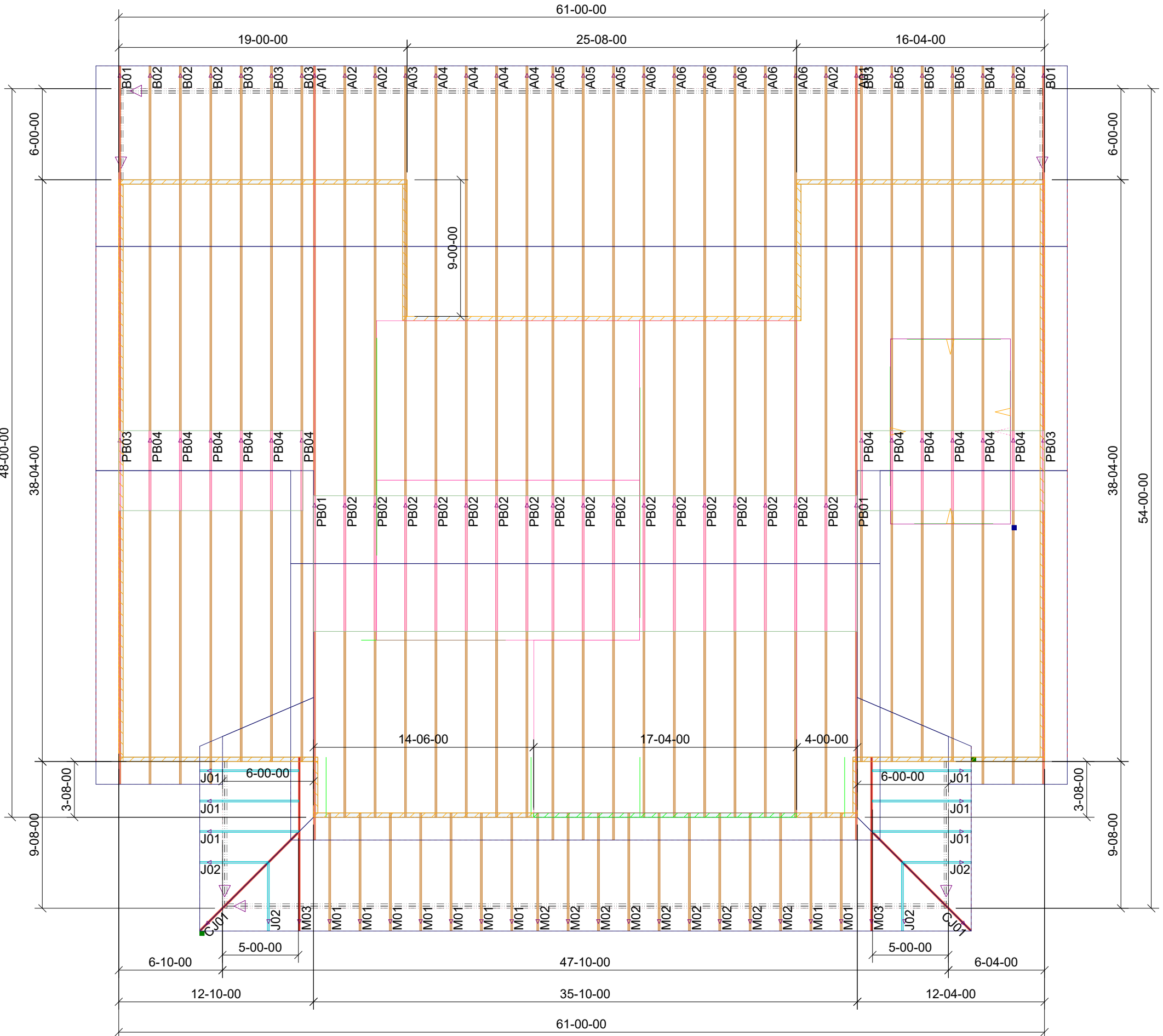
MITek®

MITek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



False Dormers Framed on Site

Shaw

Live Oak FL.

Client: William Scott
Construction
Date: 5/20/2024
Quote Date: / /
Seal Date: / /
Designer: Jason Degroff
Job Number: 0524-036

Mayo Truss
Company Inc.

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