

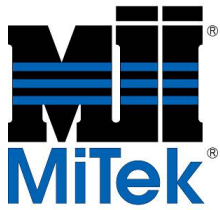
DL Hope

Columbia County

Client: Forest Hope
Date: 9/14/2022
Quote Date: 09/12/22
Seal Date: / /
Designer: Jason Degroff
Job Number: 0922-021

Mayo Truss
Company Inc.

Ph. (386) 294-3988
Fax (386) 294-3981
mayotruss@windstream.net



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

RE: DL_Hope - DL Hope

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Site Information:

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

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

Name: License #:
Address:
City: State:

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

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

This package includes 22 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	T28789987	A1GE	9/14/22
2	T28789988	A2	9/14/22
3	T28789989	A2A	9/14/22
4	T28789990	A3	9/14/22
5	T28789991	A4	9/14/22
6	T28789992	A5GE	9/14/22
7	T28789993	B1GE	9/14/22
8	T28789994	B2	9/14/22
9	T28789995	C1GE	9/14/22
10	T28789996	C2	9/14/22
11	T28789997	D1GE	9/14/22
12	T28789998	D2	9/14/22
13	T28789999	D3	9/14/22
14	T28790000	M1GE	9/14/22
15	T28790001	M2	9/14/22
16	T28790002	V01	9/14/22
17	T28790003	V02	9/14/22
18	T28790004	V03	9/14/22
19	T28790005	V04	9/14/22
20	T28790006	V05	9/14/22
21	T28790007	V06	9/14/22
22	T28790008	V07	9/14/22

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, 2023.

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



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

September 15, 2022

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789987
DL_HOPE	A1GE	COMMON STRUCTURAL GA	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:43 2022 Page 1

ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-mPuWprF7UFgD0tFw9hDDnJMIV??B6tmtm2BjAgydgMg

1-6-0	6-1-10	11-7-6	17-1-3	18-10-1	22-7-0	28-0-13	33-6-10	39-0-6	45-2-0	46-8-0
1-6-0	6-1-10	5-5-13	5-5-13	1-8-14	3-8-15	5-5-13	5-5-13	5-5-13	6-1-10	1-6-0

Scale = 1:82.3

LATERALLY BRACE TOP CHORD WITH PURLINS AT 2-0-0 o/c
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.

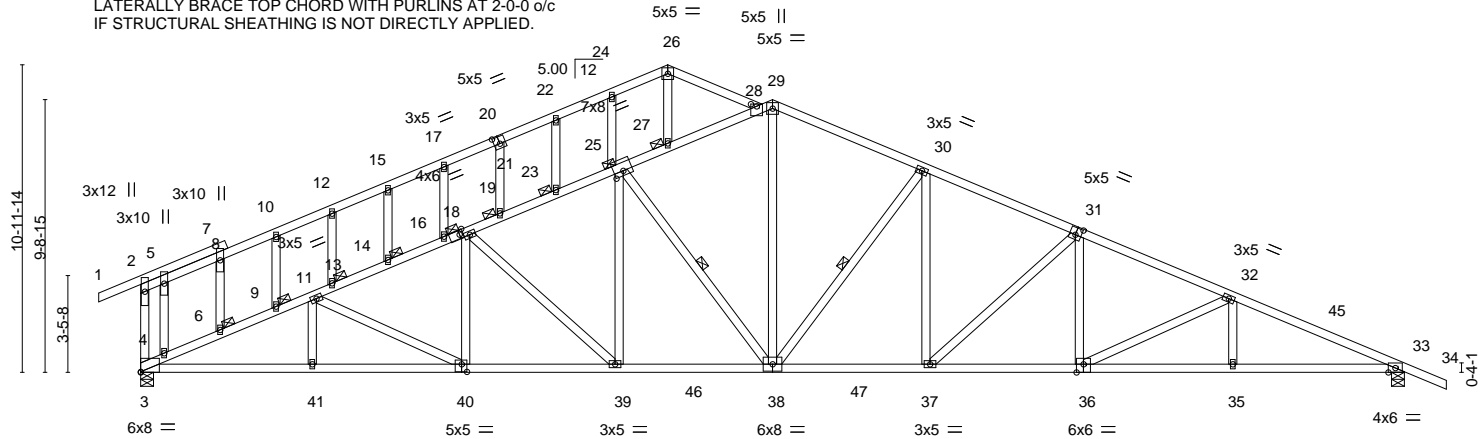


Plate Offsets (X,Y)--	[3:0-0,0,0-4], [18:0-1,9,0-2-0], [20:0-2,8,0-3-0], [25:0-4,0,0-2-0], [28:0-0,15,0-2-8], [31:0-2,8,0-3-0], [36:0-3,0,Edge], [40:0-2,4,0-3-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.98	Vert(LL)	-0.40 37-38	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 1.00	Vert(CT)	-0.74 37-38	>731	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.67	Horz(CT)	0.25 33	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 347 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

REACTIONS.

(size) 3=0-5-8, 33=0-5-8
Max Horz 3=172(LC 11)
Max Uplift 3=41(LC 12), 33=35(LC 12)
Max Grav 3=2077(LC 17), 33=2113(LC 18)

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

TOP CHORD 3-4=4293/32, 4-6=4327/15, 6-9=4324/14, 9-11=4262/0, 11-13=3841/3,
13-14=3785/0, 14-16=3792/0, 16-19=3727/0, 19-21=3314/0, 21-23=3290/0,
23-25=3271/0, 25-27=2733/0, 27-28=2679/0, 28-29=2573/110, 29-30=2656/151,
30-31=3317/119, 31-32=3946/96, 32-33=4600/74
BOT CHORD 3-41=0/4116, 40-41=0/4114, 39-40=0/3551, 38-39=0/3003, 37-38=0/2991, 36-37=0/3533,
35-36=11/4203, 33-35=11/4203
WEBS 29-38=0/1745, 30-38=1067/55, 30-37=0/766, 31-37=733/43, 31-36=0/469,
32-36=719/44, 25-38=1009/0, 25-39=0/759, 19-39=732/63, 19-40=0/422,
11-40=612/35, 2-3=314/106

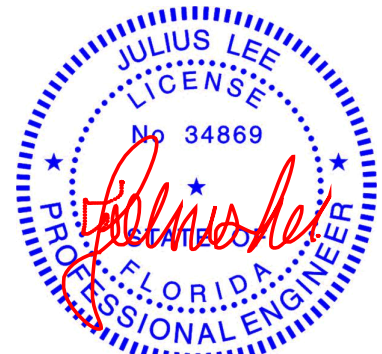
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 2-10-1, Interior(1) 2-10-1 to 22-7-0, Exterior(2E) 18-10-1 to 22-2-7, Interior(1) 22-7-0 to 46-8-0 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 2x4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 33.
- 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.

BRACING-

TOP CHORD Structural wood sheathing directly applied. Except:
1 Row at midpt 23-27
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 30-38, 25-38
JOINTS 1 Brace at Jt(s): 27, 23, 21, 16, 14, 13, 9, 6

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.



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

September 15, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789988
DL_HOPE	A2	Roof Special	5	1	Job Reference (optional)	

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

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ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-B_ZeRtl?nA3ntK_VqpmwOy_wgC8IJAHJS0PNn?ydgMd

1-6-0	4-11-2	9-6-12	14-2-6	18-10-1	23-7-13	28-5-8	33-3-4	38-10-12	45-2-0	46-8-0
1-6-0	4-11-2	4-7-10	4-7-10	4-7-10	4-9-12	4-9-12	4-9-12	5-7-8	6-3-4	1-6-0

Scale = 1:79.7

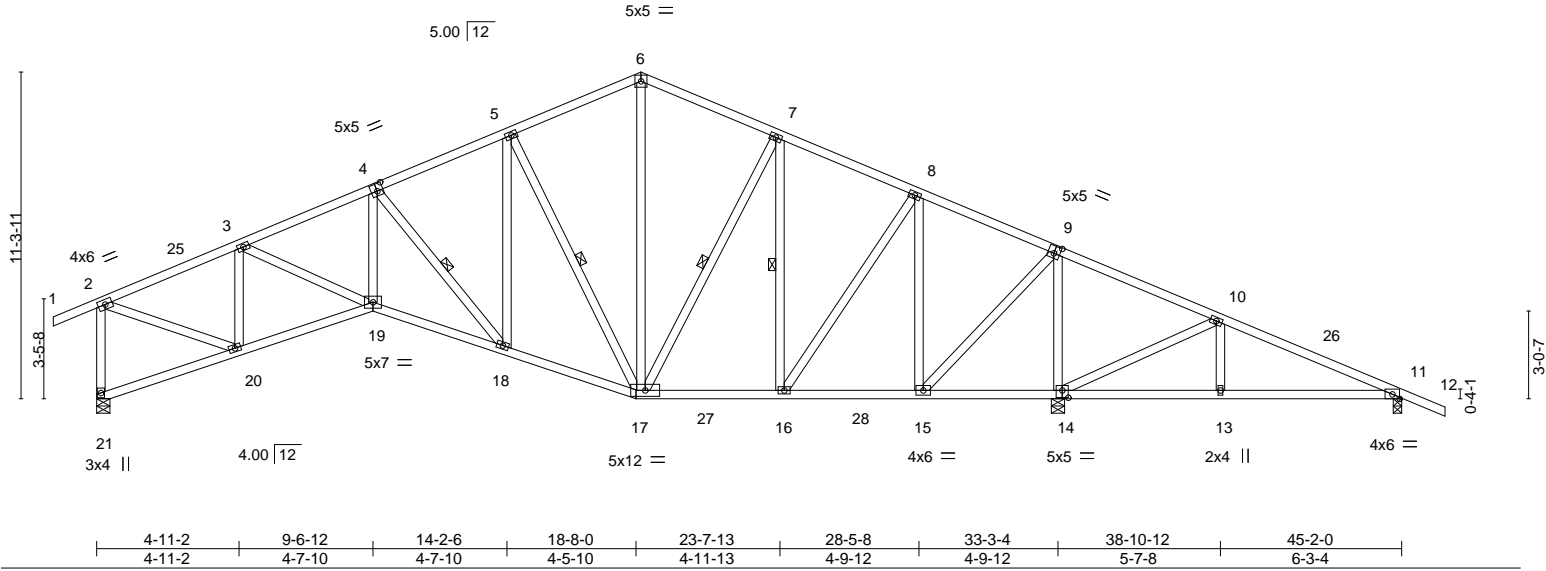


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-2-8,0-3-0], [14:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	Vert(LL)	-0.12 18-19	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.53	Vert(CT)	-0.23 18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT)	0.14 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 307 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-18, 5-17, 7-17, 7-16

REACTIONS.

(size) 21=0-5-8, 14=0-5-8, 11=0-3-8
Max Horz 21=-245(LC 10)
Max Uplift 21=-43(LC 12), 11=-50(LC 12)
Max Grav 21=1444(LC 17), 14=2472(LC 18), 11=330(LC 22)

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

TOP CHORD 2-3=-1757/74, 3-4=-2480/73, 4-5=-1533/138, 5-6=-1027/187, 6-7=-1026/191,
7-8=-967/159, 8-9=-525/118, 9-10=0/949, 10-11=-119/286, 2-21=-1427/111
BOT CHORD 20-21=-198/250, 19-20=0/1814, 18-19=0/2469, 17-18=0/1593, 16-17=0/877, 15-16=0/447,
14-15=-731/84
WEBS 3-20=-871/57, 3-19=0/713, 4-19=0/1182, 4-18=-1333/0, 5-18=0/934, 5-17=-1145/46,
6-17=-55/525, 7-16=-431/39, 8-16=0/759, 8-15=-1034/65, 9-15=0/1714, 9-14=-1974/70,
10-14=-836/46, 10-13=0/279, 2-20=0/1617

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-0-3, Interior(1) 3-0-3 to 18-10-1, Exterior(2R) 18-10-1 to 23-7-13, Interior(1) 23-7-13 to 46-8-0 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 3x5 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 21 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 100 lb uplift at joint(s) 21, 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.



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

September 15, 2022

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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

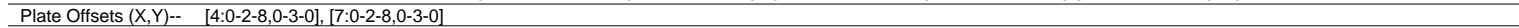
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:49 2022 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals. Rigid ceiling directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-14, 5-13, 7-13, 7-12

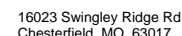
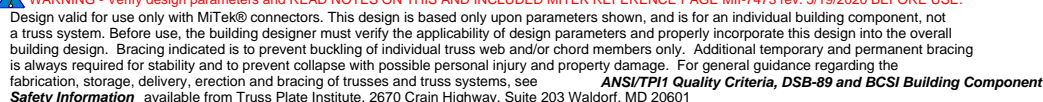
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	2-3=1891/146, 3-4=2728/201, 4-5=1747/146, 5-6=1228/173, 6-7=1209/159, 7-8=1274/130, 8-9=1039/100, 2-17=1520/111, 9-10=1364/88
BOT CHORD	16-17=253/218, 15-16=240/1923, 14-15=238/2689, 13-14=140/1782, 12-13=74/1150, 11-12=77/924
WEBS	3-16=958/91, 3-15=0/838, 4-15=93/1236, 4-14=1381/147, 5-14=27/961, 5-13=1159/123, 6-13=30/664, 8-12=0/433, 8-11=720/109, 2-16=48/1751, 9-11=58/1256

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Encl. C-Gp1=0.18; MWFRS (directional) and C-C Exterior(2E) 1-6-0 to 1-10-3, Interior(1) 1-10-3 to 18-10-1, Exterior(2R) 18-10-1 to 22-2-4, Interior(1) 22-2-4 to 33-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
- 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.



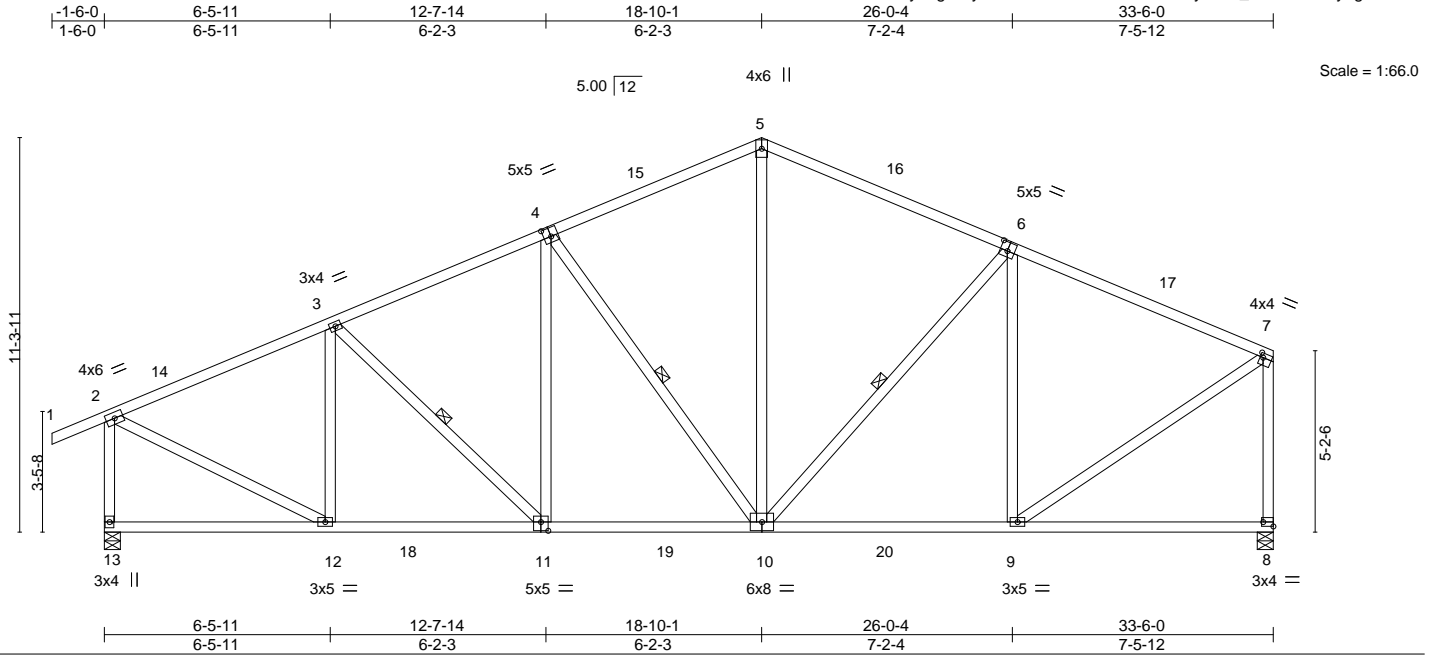
September 15, 2022



Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789991
DL_HOPE	A4	Common	4	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:51 2022 Page 1
ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-XyMXVaM8cih4z5sTdMM55?hiyDmA_XN2cl78SCydgMY



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.87	Vert(LL) -0.19 10-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.50	Vert(CT) -0.34 10-11 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 231 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

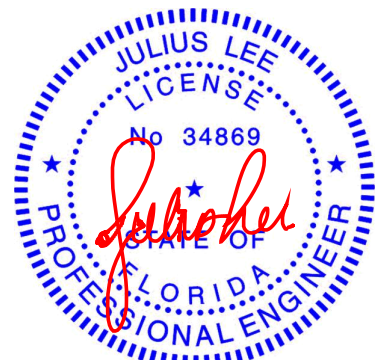
(size) 13=0-5-8, 8=0-5-8
Max Horz 13=247(LC 11)
Max Uplift 13=-38(LC 12), 8=-2(LC 12)
Max Grav 13=1603(LC 17), 8=1490(LC 19)

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

TOP CHORD 2-3=-1576/78, 3-4=-1598/127, 4-5=-1261/169, 5-6=-1279/155, 6-7=-1286/98,
2-13=-1506/140, 7-8=-1380/99
BOT CHORD 11-12=-146/1500, 10-11=-110/1482, 9-10=-67/1134
WEBS 3-12=-455/98, 4-11=0/256, 4-10=-498/60, 5-10=0/560, 6-9=-447/125, 2-12=-18/1498,
7-9=-28/1286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-10-3, Interior(1) 1-10-3 to 18-10-1, Exterior(2R) 18-10-1 to 22-2-4, Interior(1) 22-2-4 to 33-4-4 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

September 15, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789992
DL_HOPE	A5GE	COMMON STRUCTURAL GA	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:53 2022 Page 1
ID:bhJcT53?E0hfZD1uHXr?dtyeLgo-TKUlvGNO8JxoCP0rlnPZBQn6Y1UisOLL3ccEX5ydgMW



Scale = 1:68.2

LATERALLY BRACE TOP CHORD WITH PURLINS AT 2-0-0 o/c
IF STRUCTURAL SHEATHING IS NOT DIRECTLY APPLIED.

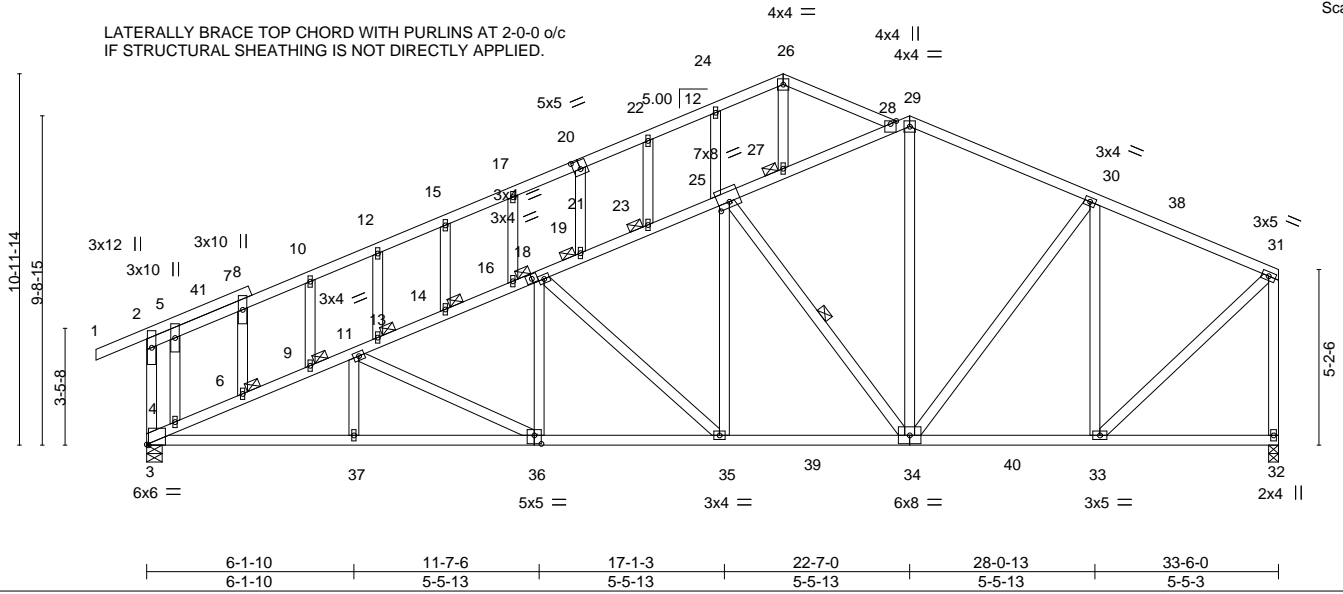


Plate Offsets (X,Y)-- [3:0-0-10,Edge], [20:0-2-8,0-3-0], [25:0-4-0,0-2-0], [36:0-2-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.17 36-37	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.32 36-37	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.09 32	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 296 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

REACTIONS.

(size) 3=0-5-8, 32=0-3-8
Max Horz 3=224(LC 11)
Max Uplift 3=41(LC 12)
Max Grav 3=1562(LC 17), 32=1472(LC 19)

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

TOP CHORD 3-4=-3036/0, 4-6=-3068/0, 6-9=-3064/0, 9-11=-3004/0, 11-13=-2509/0, 13-14=-2440/0,
14-16=-2449/0, 16-19=-2379/0, 19-21=-1957/0, 21-23=-1933/0, 23-25=-1915/0,
25-27=-1368/0, 27-28=-1317/0, 28-29=-1213/94, 29-30=-1294/133, 30-31=-1103/95,
31-32=-1394/65
BOT CHORD 3-37=-87/2931, 36-37=-86/2929, 35-36=-60/2336, 34-35=-14/1793, 33-34=-59/982
WEBS 29-34=0/706, 30-34=0/353, 30-33=-660/105, 25-34=-1014/0, 25-35=0/756,
19-35=-726/62, 19-36=0/433, 11-36=-645/31, 2-3=-301/104, 31-33=-31/1294

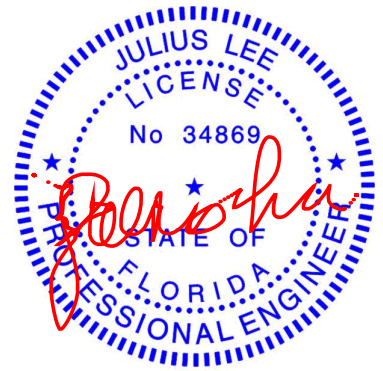
NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-10-3, Interior(1) 1-10-3 to 22-7-0, Exterior(2E) 18-10-1 to 22-2-7, Interior(1) 22-7-0 to 33-4-4 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 1.5x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 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.

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 25-34
JOINTS 1 Brace at Jt(s): 27, 23, 21, 16, 14, 13, 9, 6

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.



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

September 15,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789993
DL_HOPE	B1GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:55 2022 Page 1
ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-Qjc2KyPefxBWSjAEsCR1GrSyaqL_wRXeWw5LbzydgMU
45-2-0 46-8-0 1-6-0

Scale = 1:81.7

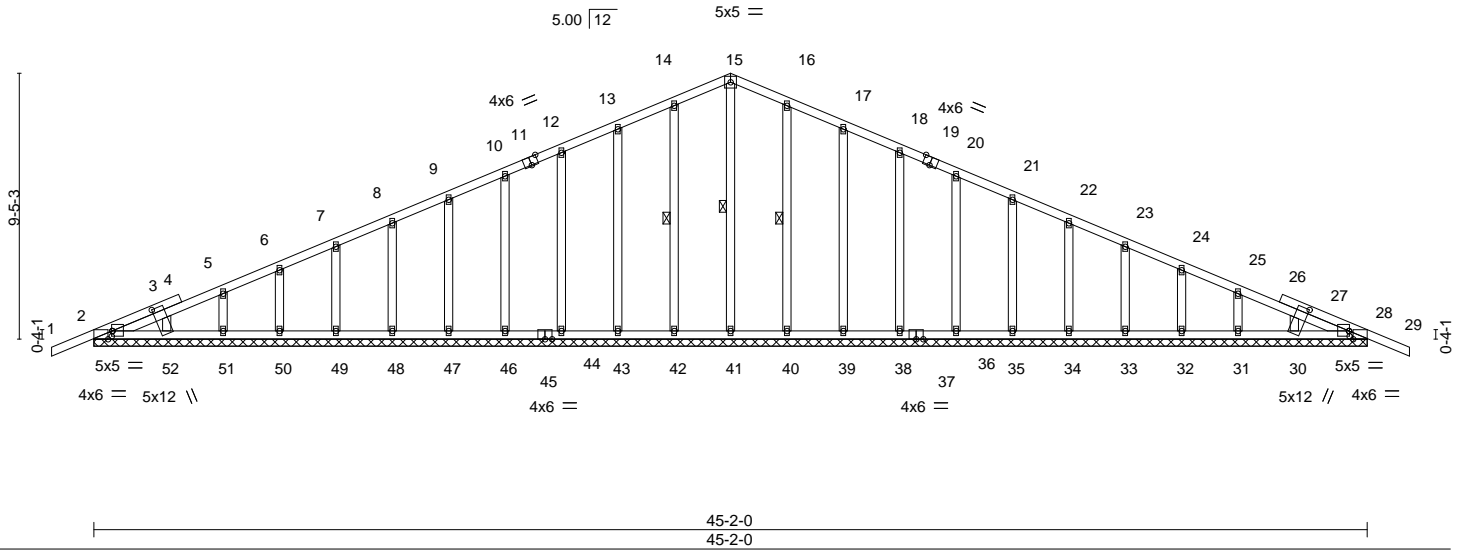


Plate Offsets (X,Y)--		[2:0-1-13,Edge], [2:0-0-4,0-2-4], [11:0-3-0,Edge], [19:0-3-0,Edge], [28:0-1-13,Edge], [28:0-0-4,0-2-4], [30:0-1-13,1-6-15], [52:0-1-13,1-6-15]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14
TCDL 10.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.01 29 n/r 120
			Vert(CT) -0.01 29 n/r 120
			Horz(CT) 0.01 28 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 294 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.
WEBS 1 Row at midpt 15-41, 14-42, 16-40

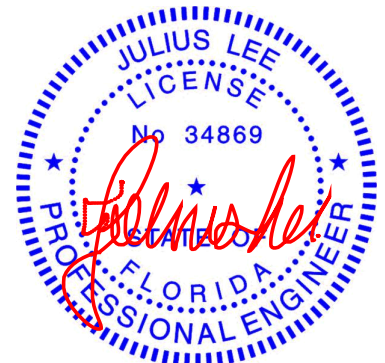
REACTIONS.

- All bearings 45-2-0.
(lb) - Max Horz 2=168(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 42, 43, 44, 46, 47, 48, 49, 50, 51, 40, 39, 38, 36, 35, 34, 33, 32, 31, 28
Max Grav All reactions 250 lb or less at joint(s) 2, 41, 42, 43, 44, 46, 47, 48, 49, 50, 51, 52, 40, 39, 38, 36, 35, 34, 33, 32, 31, 30, 28

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=2ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 3-0-3, Exterior(2N) 3-0-3 to 22-7-0, Corner(3R) 22-7-0 to 27-1-3, Exterior(2N) 27-1-3 to 46-8-0 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 42, 43, 44, 46, 47, 48, 49, 50, 51, 40, 39, 38, 36, 35, 34, 33, 32, 31, 28.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789994
DL_HOPE	B2	Common	6	1	Job Reference (optional)	

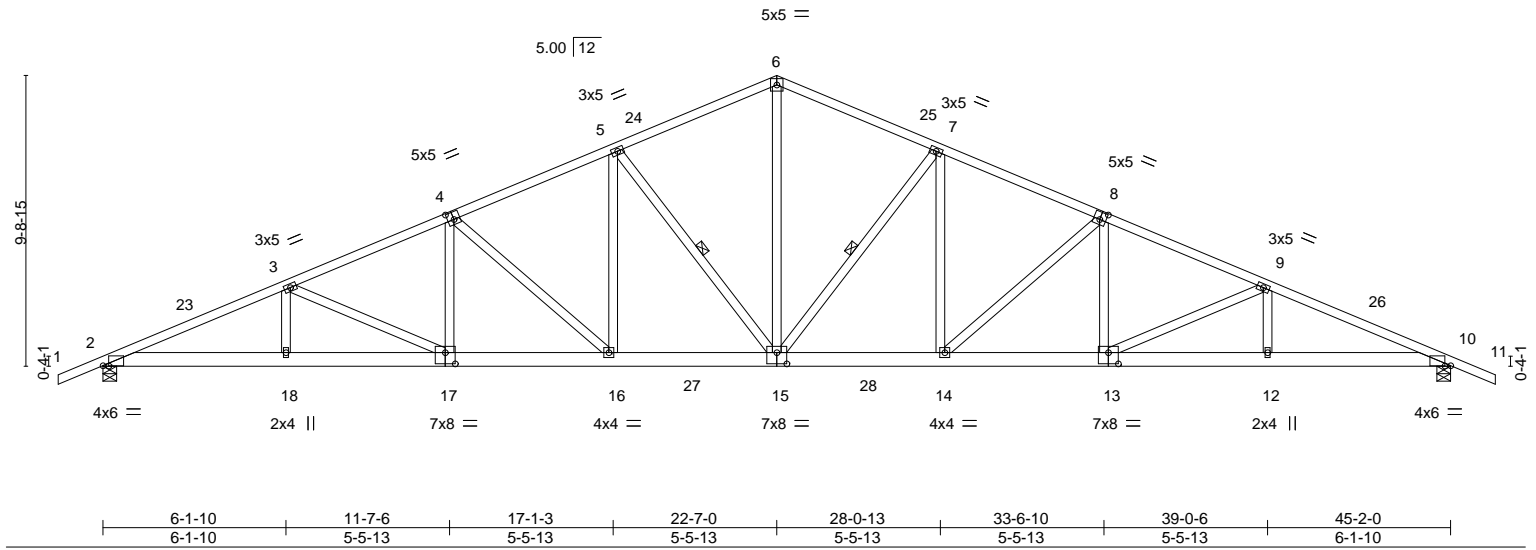
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:57 2022 Page 1

ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-M5koldQvBYREh0Kd_dTVLGxnLep8OC4x_EaSgsydgMS

1-6-0	6-1-10	11-7-6	17-1-3	22-7-0	28-0-13	33-6-10	39-0-6	45-2-0	46-8-0
1-6-0	6-1-10	5-5-13	5-5-13	5-5-13	5-5-13	5-5-13	5-5-13	6-1-10	1-6-0

Scale = 1:77.2



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.90	Vert(LL) -0.35 14-15 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Vert(CT) -0.64 14-15 >847 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.19 10 n/a n/a		
	Code FBC2020/TP12014			Weight: 299 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.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-15, 5-15

REACTIONS.

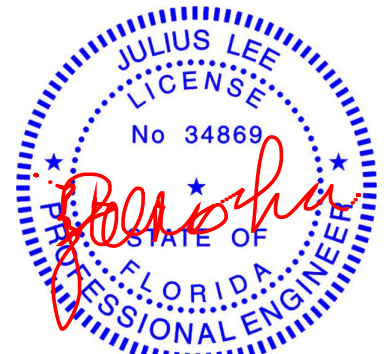
(size) 2=0-5-8, 10=0-5-8
Max Horz 2=174(LC 11)
Max Uplift 2=-36(LC 12), 10=-36(LC 12)
Max Grav 2=2103(LC 17), 10=2103(LC 18)

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

TOP CHORD 2-3=-4697/117, 3-4=-3990/143, 4-5=-3325/166, 5-6=-2668/199, 6-7=-2668/199,
7-8=-3324/166, 8-9=-3988/143, 9-10=-4695/117
BOT CHORD 2-18=-43/4431, 17-18=-43/4431, 16-17=-4/3702, 15-16=0/3130, 14-15=0/3023,
13-14=-11/3570, 12-13=-49/4299, 10-12=-49/4299
WEBS 6-15=-49/1750, 7-15=-1082/75, 7-14=0/771, 8-14=-766/43, 8-13=0/503, 9-13=-777/44,
9-12=0/271, 5-15=-1082/75, 5-16=0/771, 4-16=-767/43, 4-17=0/503, 3-17=-778/44,
3-18=0/271

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 3-0-3, Interior(1) 3-0-3 to 22-7-0, Exterior(2R) 22-7-0 to 27-1-3, Interior(1) 27-1-3 to 46-8-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



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

September 15, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789995
DL_HOPE	C1GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:38:59 2022 Page 1
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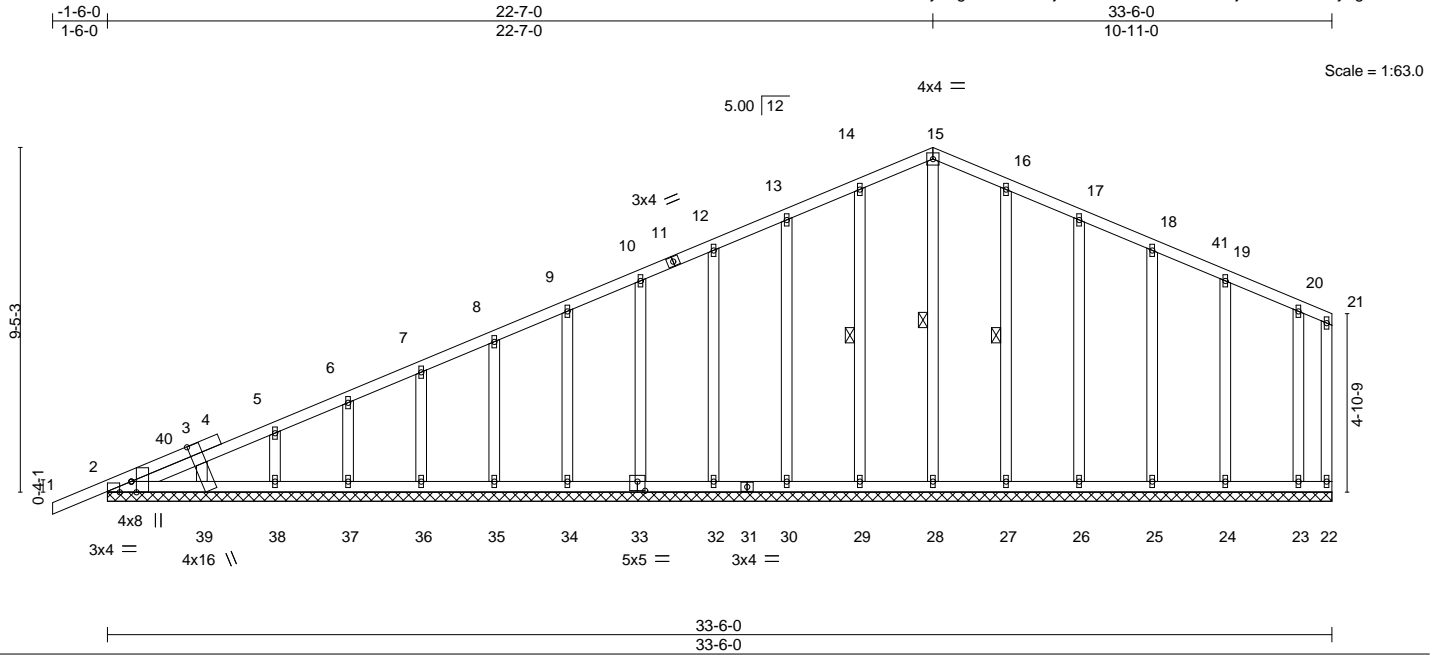


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [33:0-2-8,0-3-0], [39:0-3-6,1-9-3]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	22	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 241 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 15-28, 14-29, 16-27

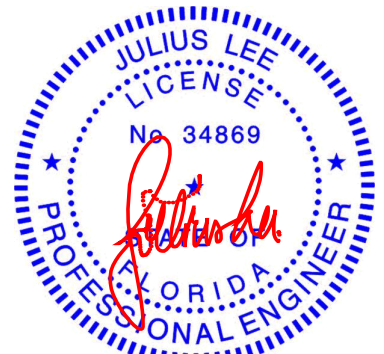
REACTIONS.

All bearings 33-6-0.
(lb) - Max Horz 2=219(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 22, 2, 29, 30, 32, 33, 34, 35, 36, 37, 38, 27, 26, 25, 24, 23
Max Grav All reactions 250 lb or less at joint(s) 22, 2, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 27, 26, 25, 24, 23

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-10-3, Exterior(2N) 1-10-3 to 22-7-0, Corner(3R) 22-7-0 to 25-11-3, Exterior(2N) 25-11-3 to 33-4-4 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 2, 29, 30, 32, 33, 34, 35, 36, 37, 38, 27, 26, 25, 24, 23.



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

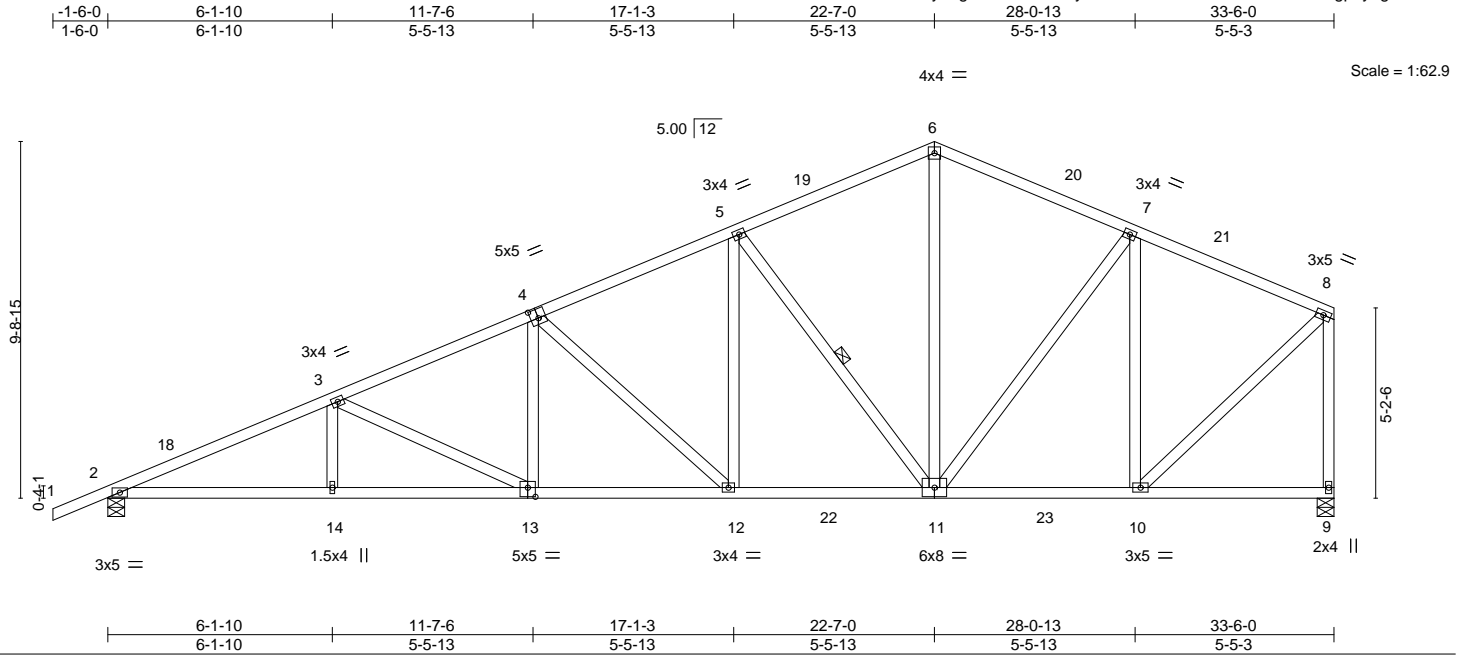


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789996
DL_HOPE	C2	Common	6	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:01 2022 Page 1
ID:bhJcT53?E0hfZD1uHXr?dtyeLgo-EtzJb?TPFnyfAedODTYRV66VUFDK0NXvsYgpdYdgMO



Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789997
DL_HOPE	D1GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:02 2022 Page 1
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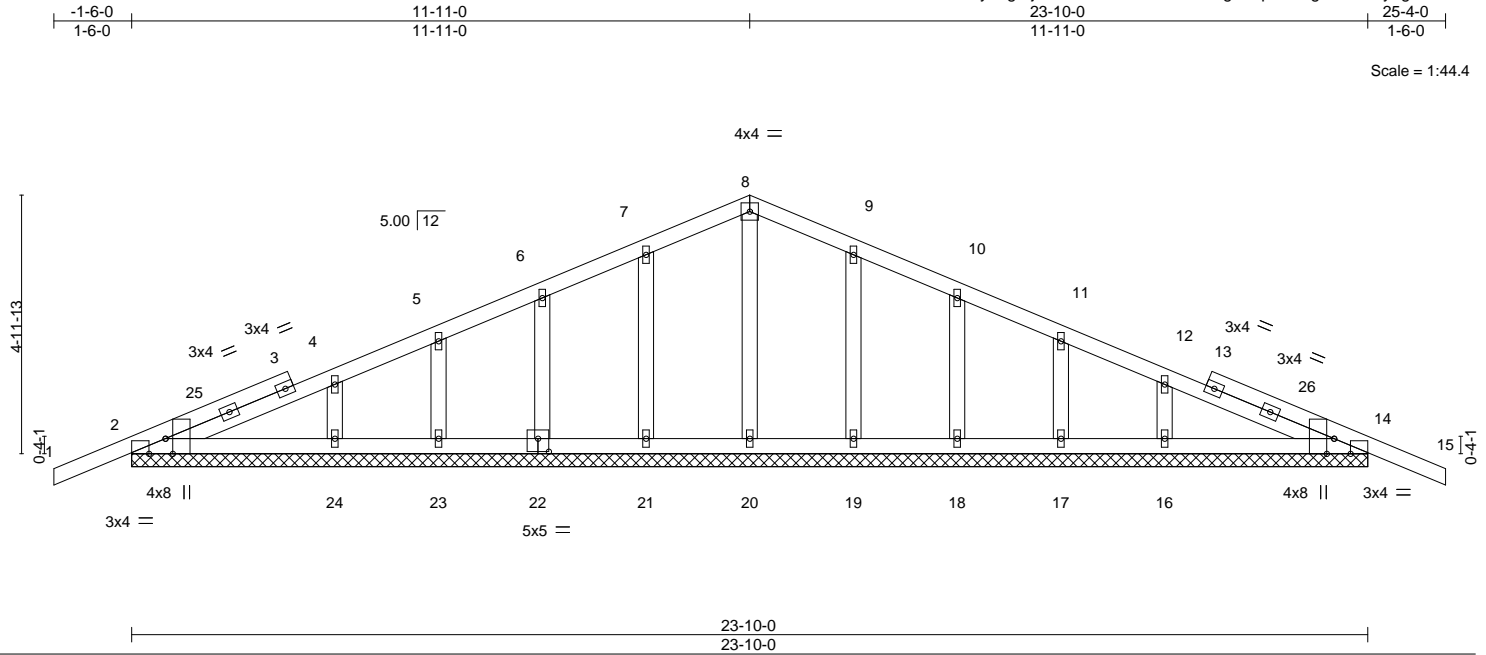


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [14:0-3-8,Edge], [14:0-3-13,Edge], [22:0-2-8,0-3-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 121 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, Except:
6-0-0 oc bracing: 2-24,23-24,22-23.

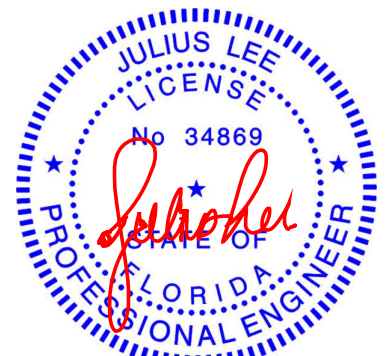
REACTIONS.

All bearings 23-10-0.
(lb) - Max Horz 2=75(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 19, 18, 17 except 24=258(LC 1),
16=259(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-11-0, Corner(3R) 11-11-0 to 14-11-0, Exterior(2N) 14-11-0 to 25-4-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28789998
DL_HOPE	D2	ATTIC	9	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:04 2022 Page 1
ID:bhJcT53?E0hfZD1uHxr?dtyeLgo-fSfSD1WIYiKE15Mzub587lkx7SFTXRtzbpmKQyydgML

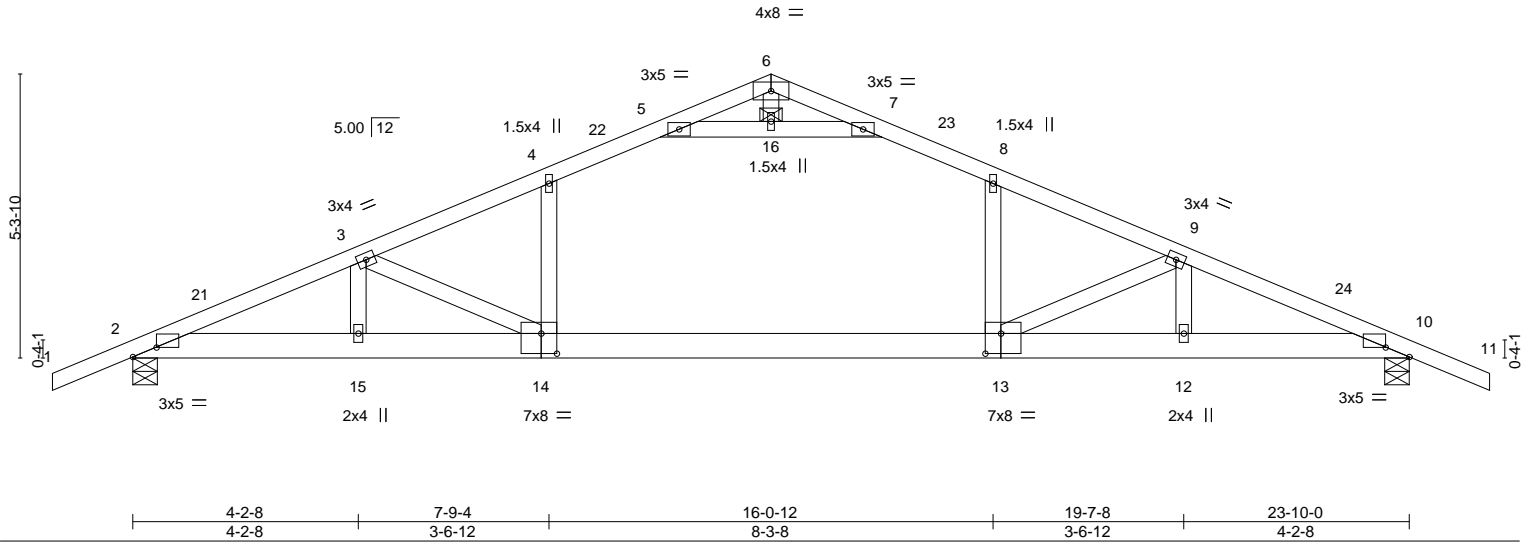
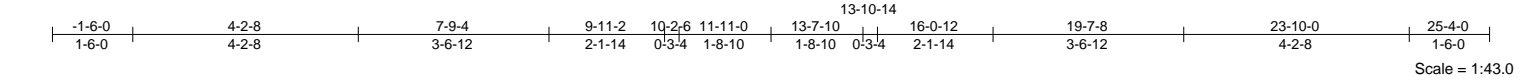


Plate Offsets (X,Y)--		[2:0-5-5,0-2-2], [10:0-5-5,0-2-2], [13:0-3-8,0-4-8], [14:0-3-8,0-4-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.48	14	>590	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.70	13-14	>407	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS		Attic	-0.42	13-14	248	360	Weight: 129 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP SS
BOT CHORD 2x6 SP No.2 *Except*
13-14: 2x6 SP SS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 2=0-5-8, 10=0-5-8
Max Horz 2=-79(LC 10)
Max Uplift 2=-66(LC 12), 10=-66(LC 12)
Max Grav 2=1319(LC 18), 10=1319(LC 19)

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

TOP CHORD 2-3=-2896/166, 3-4=-2379/134, 4-5=-2003/186, 5-6=0/638, 6-7=0/638, 7-8=-2003/186,
8-9=-2379/133, 9-10=-2895/166
BOT CHORD 2-15=-84/2728, 14-15=-84/2728, 13-14=-3/2038, 12-13=-94/2667, 10-12=-94/2667
WEBS 5-16=-2770/137, 7-16=-2770/137, 8-13=0/751, 9-13=-733/105, 4-14=0/751,
3-14=-733/105

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-11-0, Exterior(2R) 11-11-0 to 14-11-0, Interior(1) 14-11-0 to 25-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s). 8-13, 4-14
- Bottom chord live load (30.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



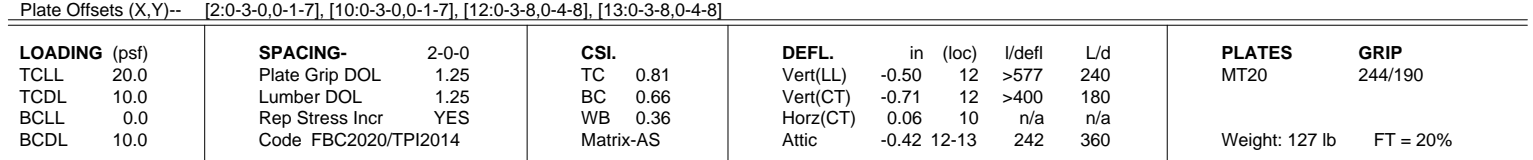
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:06 2022 Page 1

ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-bqnCeixY4JayGPWL?07cAphOGxx?LLG27FQYurdgMJ

-1-6-0	4-2-8	7-9-4	9-11-2	10-2-6	11-11-0	13-7-10	13-10-14	16-0-12	19-7-8	23-10-0
1-6-0	4-2-8	3-6-12	2-1-14	0-3-4	1-8-10	1-8-10	0-3-4	2-1-14	3-6-12	4-2-8


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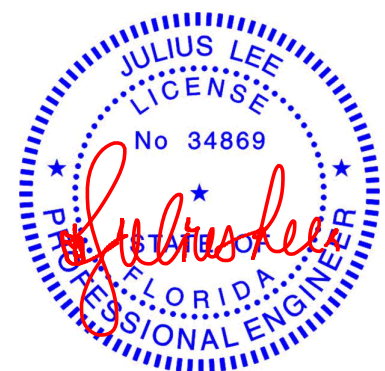


REACTIONS. (size) 10=0-3-8, 2=0-5-8
 Max Horz 2=78(LC 11)
 Max Uplift 10=-27(LC 12), 2=-67(LC 12)
 Max Grav 10=1240(LC 19), 2=1321(LC 18)

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

TOP CHORD	2-3=-2900/172, 3-4=-2386/138, 4-5=-2011/189, 5-6=0/640, 6-7=0/642, 7-8=-2009/193, 8-9=-2389/146, 9-10=-2933/187
BOT CHORD	2-14=-121/2725, 13-14=-121/2725, 12-13=-33/2038, 11-12=-126/2704, 10-11=-126/2704
WEBS	5-15=-2781/151, 7-15=-2781/151, 8-12=0/762, 9-12=-764/114, 4-13=0/750, 3-13=-730/101

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCPI=0.55; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-11-0, Exterior(2R) 11-11-0 to 14-11-0, Interior(1) 14-11-0 to 23-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).8-12, 4-13
 - 6) Bottom chord live load (30.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-13
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.
 - 9) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- 




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

September 15, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

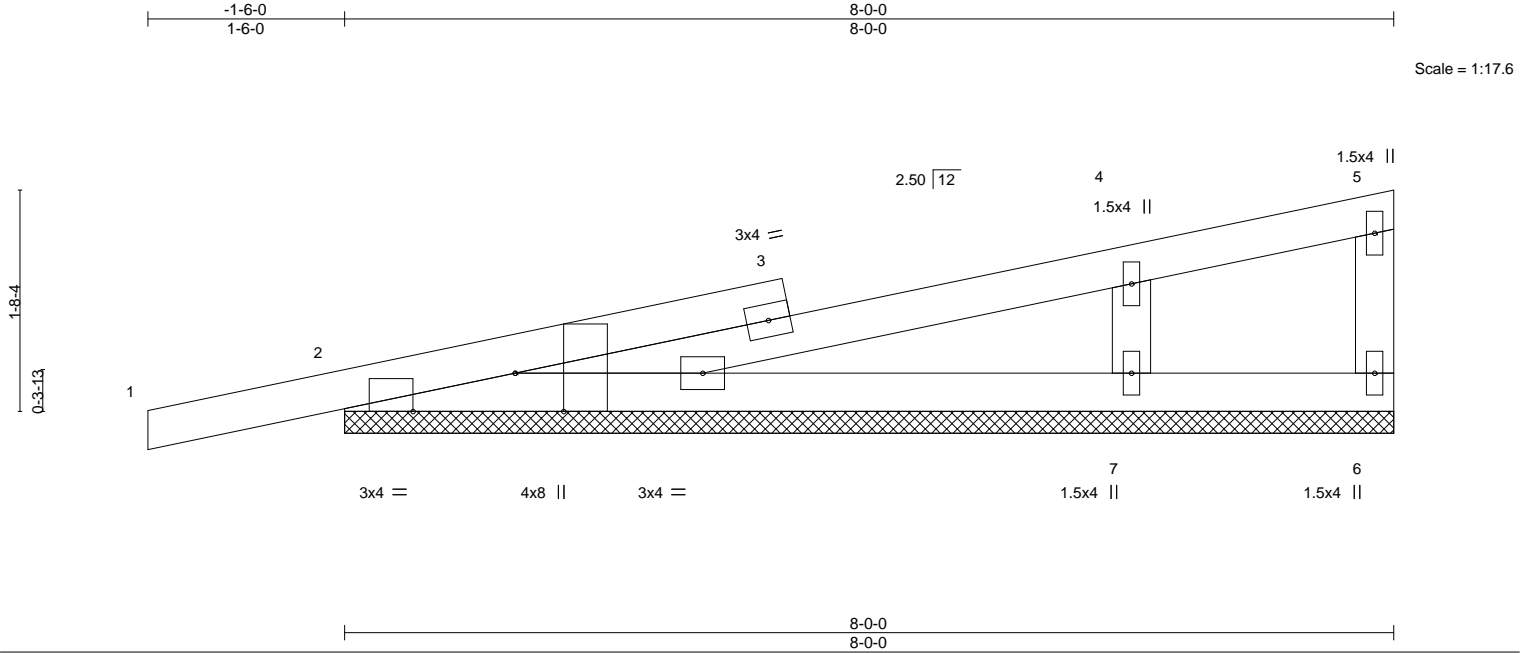


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790000
DL_HOPE	M1GE	Monopitch Supported Gable	2	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:07 2022 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.00 1 n/r 120	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	0.01 1 n/r 120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 6 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							
								Weight: 32 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=8'-0", 6=8'-0", 7=8'-0"
Max Horz 2=43(LC 9)
Max Uplift 2=-45(LC 8), 6=-47(LC 3)
Max Grav 2=305(LC 1), 7=455(LC 1)

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

WEBS 4-7=-327/317

NOTES-

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



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Chesterfield, MO 63017

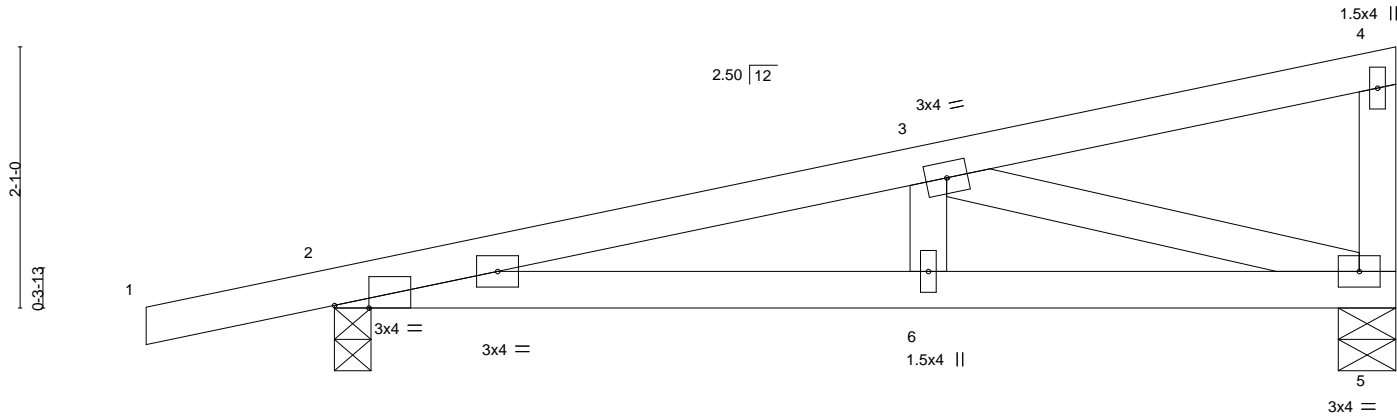
Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790001
DL_HOPE	M2	Monopitch	15	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:08 2022 Page 1
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Scale = 1:18.4



										4-8-13		8-5-8	
Plate Offsets (X,Y)-- [2:0-3-5,Edge]										4-8-13		3-8-11	
LOADING (psf)		SPACING- 2-0-0		CSL		DEFL. in (loc) l/defl L/d		PLATES		GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	-0.02 6-9 >999	240	MT20	244/190			
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.05 6-9 >999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01 5 n/a	n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 36 lb	FT = 20%			

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 5=0-5-8
Max Horz 2=54(LC 11)
Max Uplift 2=41(LC 8)
Max Grav 2=431(LC 1), 5=324(LC 1)

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

TOP CHORD 2-3=-767/232
BOT CHORD 2-6=-281/741, 5-6=-281/741
WEBS 3-5=-770/275

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-3-10, Interior(1) 1-3-10 to 8-3-12 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

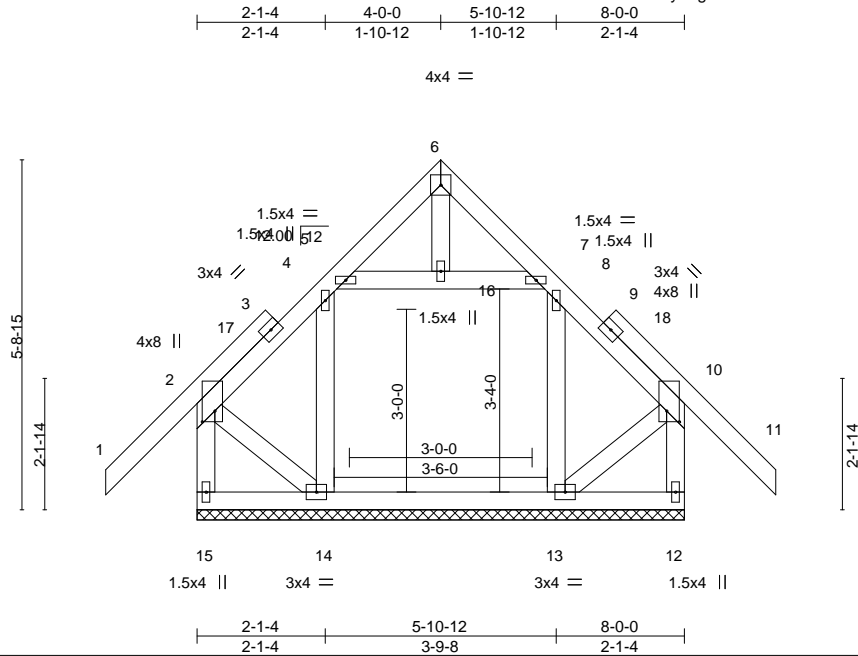


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790002
DL_HOPE	V01	Valley	1	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl. .

8.530 s Jan 6 2022 MiTek Industries, Inc. Thu Sep 15 09:33:10 2022 Page 1
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Scale = 1:37.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2.0-0	TC 0.18	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.08	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	-0.00	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S						Weight: 69 lb	FT = 20%

LUMBER-

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

BRACING-

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

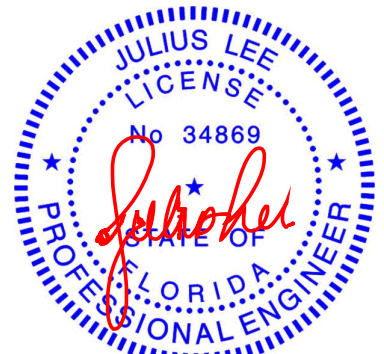
REACTIONS.

All bearings 8-0-0.
(lb) - Max Horz 15=154(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 15, 12, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 15, 12, 14, 13

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 9-6-0 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.
- Gable requires continuous bottom chord bearing.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 12, 14, 13.



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

September 15, 2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

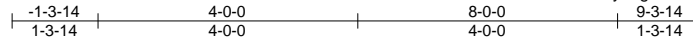


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790003
DL_HOPE	V02	Valley	1	1	Job Reference (optional)	

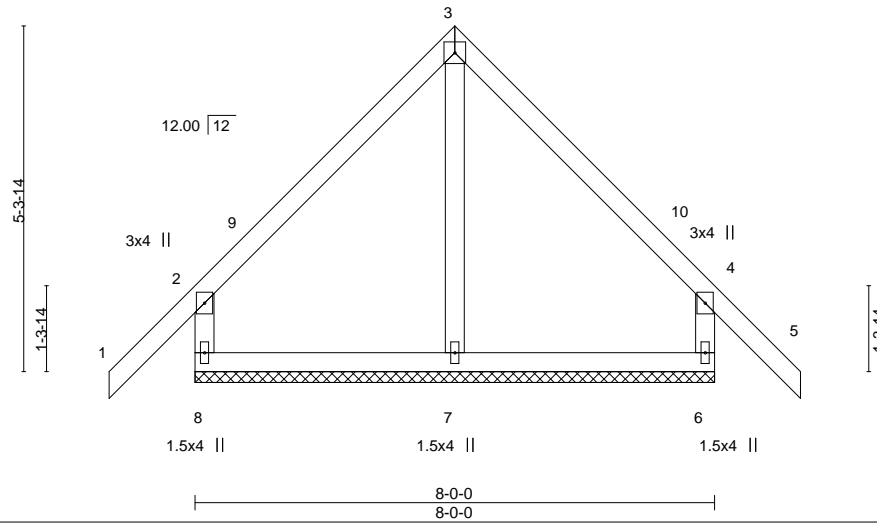
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:10 2022 Page 1
ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-Uc0JU4a37X4OI0p6EsCYN0_5ZtQ3xDcrzlDedcydgMF



4x4 =

Scale = 1:35.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.13	Vert(CT)	-0.00	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.09	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 45 lb	FT = 20%
	Code FBC2020/TPI2014							

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=8-0-0, 6=8-0-0, 7=8-0-0
Max Horz 8=143(LC 11)
Max Uplift 8=133(LC 12), 6=133(LC 12)
Max Grav 8=277(LC 1), 6=277(LC 1), 7=238(LC 1)

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

TOP CHORD 2-8=-252/310, 2-3=-179/267, 3-4=-180/265, 4-6=-255/308

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-3-14 to 1-8-2, Interior(1) 1-8-2 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior(1) 7-0-0 to 9-3-14 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
- 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=133, 6=133.



Julius Lee PE No. 34869
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 15, 2022

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

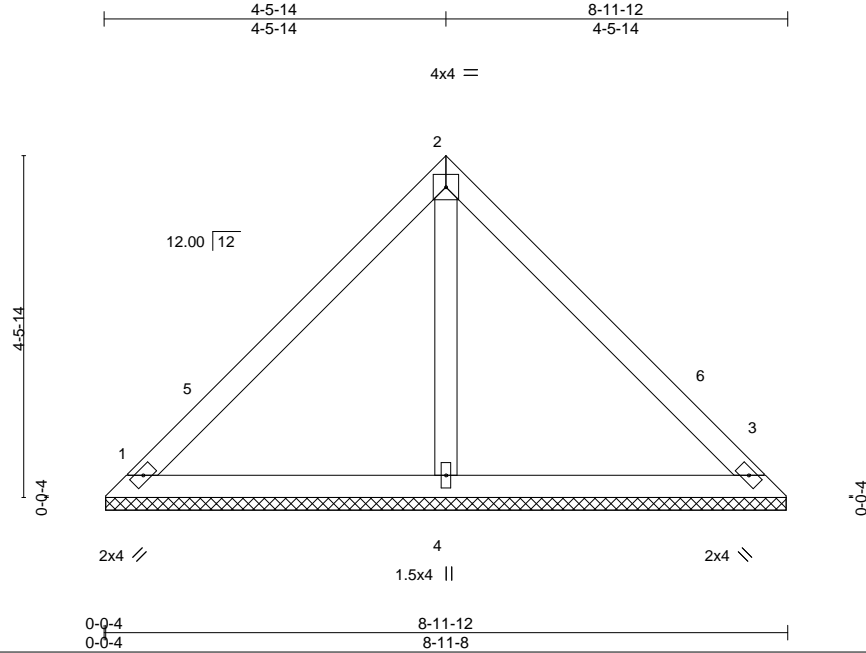


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790004
DL_HOPE	V03	Valley	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:11 2022 Page 1
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Scale = 1:30.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.35	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 37 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.

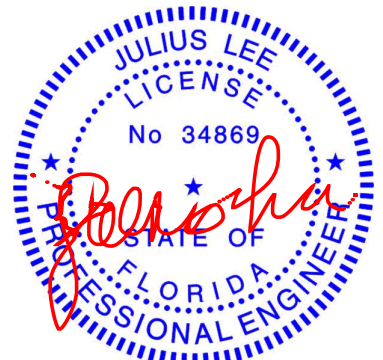
REACTIONS.

(size) 1=8-11-4, 3=8-11-4, 4=8-11-4
Max Horz 1=87(LC 11)
Max Uplift 1=-23(LC 12), 3=-23(LC 12)
Max Grav 1=198(LC 1), 3=198(LC 1), 4=267(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-5-14, Exterior(2R) 4-5-14 to 7-5-14, Interior(1) 7-5-14 to 8-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 15,2022

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

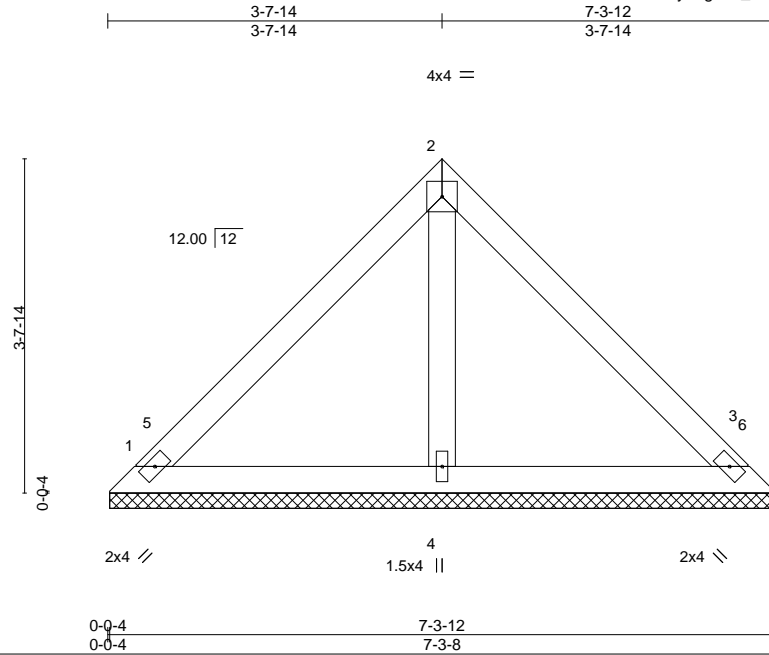


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790005
DL_HOPE	V04	Valley	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:12 2022 Page 1
ID: bhJcT53?E0hfZD1uHXr?dtyeLgo-Q_8TvmcJf9K5_KzVMGE0SR3RXh7uP838R3iiiUydgMD



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					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 or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

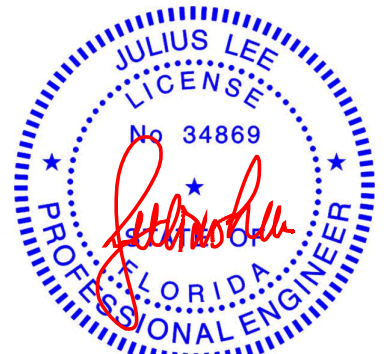
REACTIONS.

(size) 1=7-3-4, 3=7-3-4, 4=7-3-4
Max Horz 1=69(LC 11)
Max Uplift 1=18(LC 12), 3=18(LC 12)
Max Grav 1=158(LC 1), 3=158(LC 1), 4=213(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 3-7-14, Exterior(2R) 3-7-14 to 6-7-14, Interior(1) 6-7-14 to 6-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

September 15, 2022

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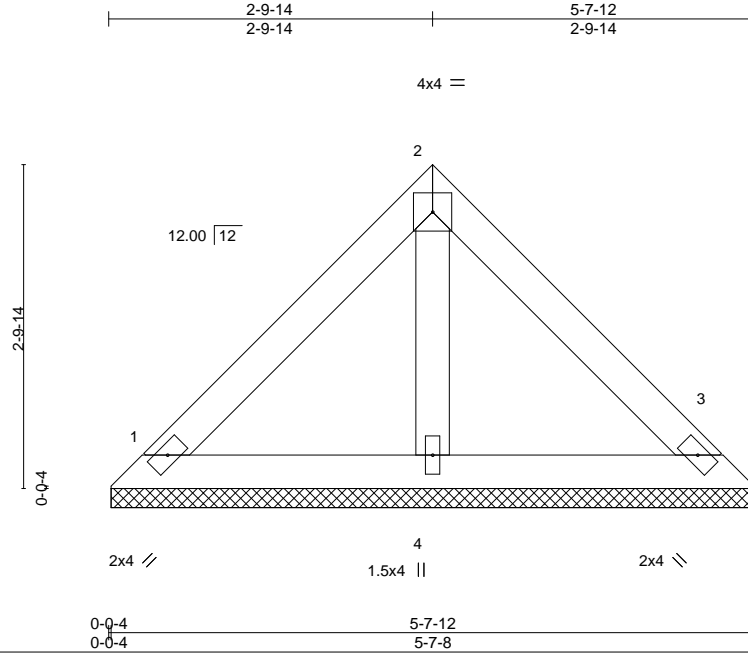


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790006
DL_HOPE	V05	Valley	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:13 2022 Page 1
ID:bhJcT53?E0hfZD1uHXr?dtyeLgo-uAis66dXSSycUYhw_IF?ecdq5Uu8bVlfjSIExydgMC



Scale = 1:20.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 22 lb	FT = 20%
	Code FBC2020/TPI2014							

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 5-7-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-7-4, 3=5-7-4, 4=5-7-4
Max Horz 1=52(LC 11)
Max Uplift 1=14(LC 12), 3=14(LC 12)
Max Grav 1=118(LC 1), 3=118(LC 1), 4=159(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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Date:

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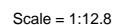
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:14 2022 Page 1
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

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

NOTES-

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



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

September 15, 2022



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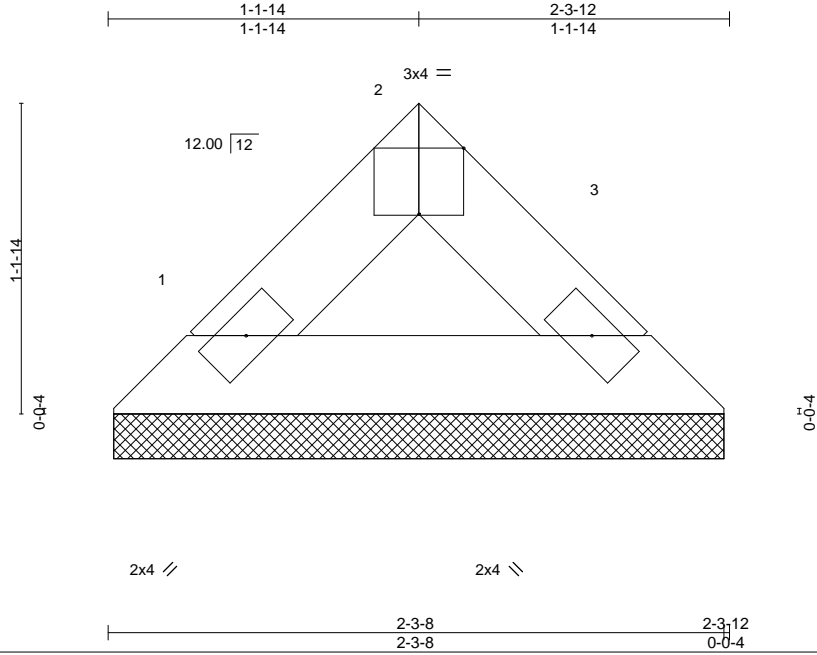


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	DL Hope	T28790008
DL_HOPE	V07	Valley	1	1	Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Sep 14 15:39:15 2022 Page 1
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Scale = 1:8.6

Plate Offsets (X,Y)-- [2:0-2:0,Edge]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.02		Vert(LL)	n/a -	n/a	999	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.03		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-P						Weight: 7 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=2-3-4, 3=2-3-4
Max Horz 1=17(LC 11)
Max Grav 1=64(LC 1), 3=64(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

September 15, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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

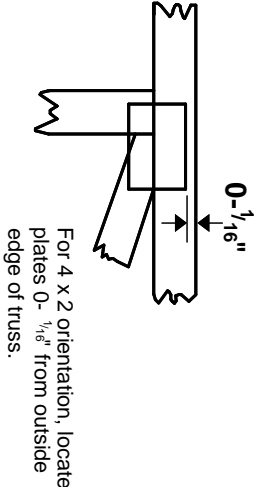
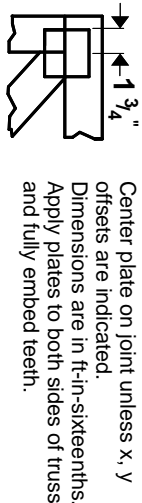
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Symbols

PLATE LOCATION AND ORIENTATION



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

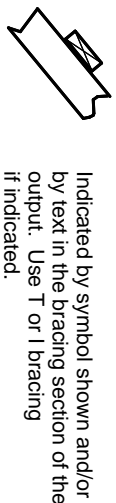
This symbol indicates the required direction of slots in connector plates.

PLATE SIZE

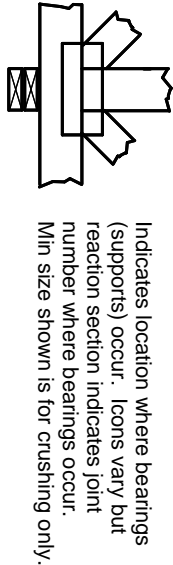
4 X 4

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

LATERAL BRACING LOCATION

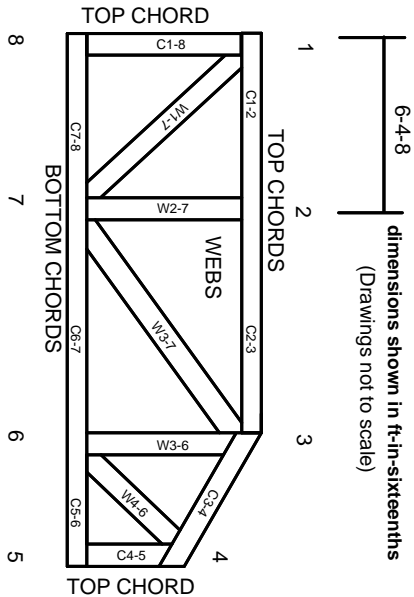


BEARING



Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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 Engineering Reference Sheet: MII-7473 rev. 5/19/2020

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.