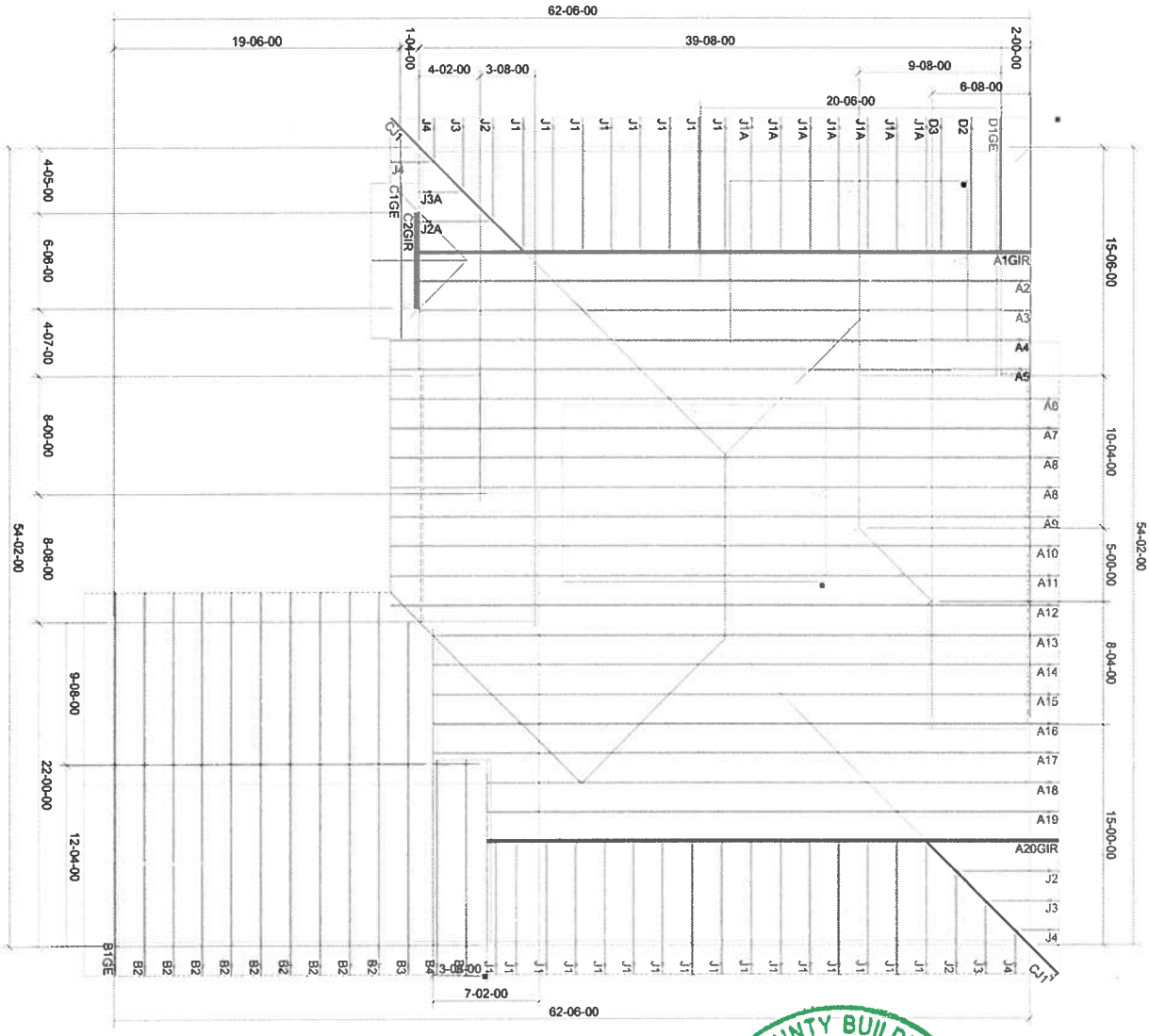


Lot 24

Roof Loading
TC Live: 20 psf
TC Dead: 10 psf
BC Live: 0 psf
BC Dead: 10 psf
Spacing: 2 O.C.

Client: DWC Contracting
Date: 3/10/2020
Quote Date: / /
Seal Date: / /
Designer: Stephanie Ramirez
Job Number: 0320-012

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: Lot_24 - Lot 24 Thornwood

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

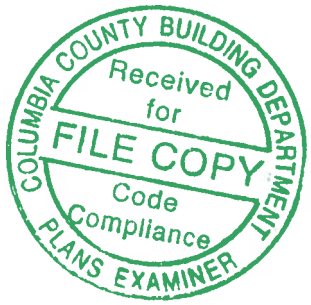
Site Information:
Customer Info: DWC Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Fort White State: FL

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: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

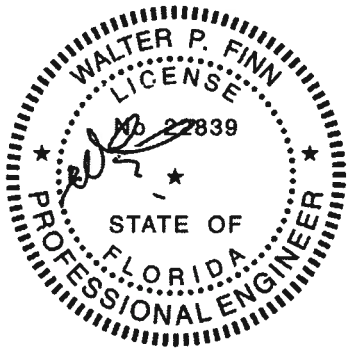
This package includes 37 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T19759527	A1GIR	3/23/20	23	T19759549	B3	3/23/20
2	T19759528	A2	3/23/20	24	T19759550	B4	3/23/20
3	T19759529	A3	3/23/20	25	T19759551	C1GE	3/23/20
4	T19759530	A4	3/23/20	26	T19759552	C2GIR	3/23/20
5	T19759531	A5	3/23/20	27	T19759553	CJ1	3/23/20
6	T19759532	A6	3/23/20	28	T19759554	D1GE	3/23/20
7	T19759533	A7	3/23/20	29	T19759555	D2	3/23/20
8	T19759534	A8	3/23/20	30	T19759556	D3	3/23/20
9	T19759535	A9	3/23/20	31	T19759557	J1	3/23/20
10	T19759536	A10	3/23/20	32	T19759558	J1A	3/23/20
11	T19759537	A11	3/23/20	33	T19759559	J2	3/23/20
12	T19759538	A12	3/23/20	34	T19759560	J2A	3/23/20
13	T19759539	A13	3/23/20	35	T19759561	J3	3/23/20
14	T19759540	A14	3/23/20	36	T19759562	J3A	3/23/20
15	T19759541	A15	3/23/20	37	T19759563	J4	3/23/20
16	T19759542	A16	3/23/20				
17	T19759543	A17	3/23/20				
18	T19759544	A18	3/23/20				
19	T19759545	A19	3/23/20				
20	T19759546	A20GIR	3/23/20				
21	T19759547	B1GE	3/23/20				
22	T19759548	B2	3/23/20				



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: Finn, Walter
My license renewal date for the state of Florida is February 28, 2021.



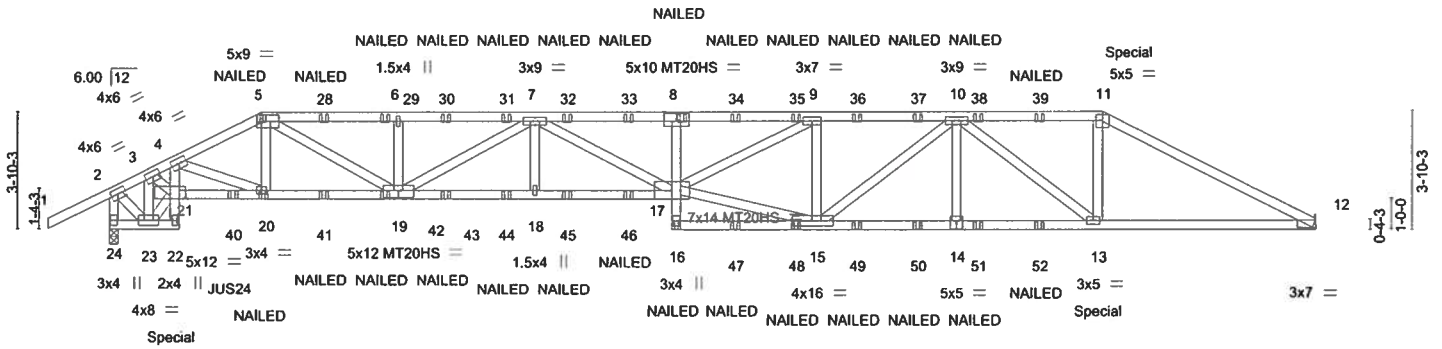
Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

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.

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759527
Lot_24	A1GIR	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:29 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-JAd1Q5j_6Huf9w7EOqL9Eb2ovD?OvCSllc0WHpzY7YW

Scale = 1:71.1



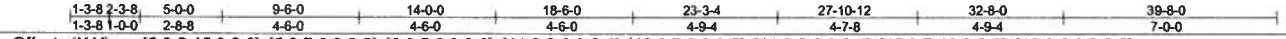


Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [5:0-7-0,0-2-8], [8:0-5-0,0-3-0], [11:0-2-8,0-2-4], [12:0-7-0,0-0-6], [14:0-2-8,0-3-4], [15:0-7-12,0-2-0], [19:0-6-0,0-3-0]

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	0.94	Vert(LL)	-0.59	17-18	>799	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-1.21	17-18	>393	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.37	12	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 439 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
8-11: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
14-16,12-14: 2x4 SP No.1, 17-19: 2x4 SP SS
WEBS 2x4 SP No.2

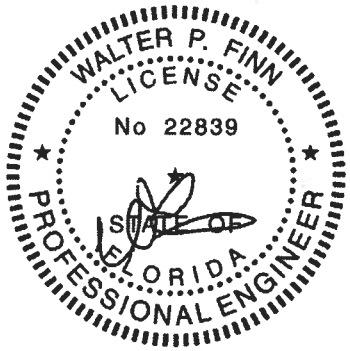
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=Mechanical, 24=0-3-8
Max Horz 24=-84(LC 6)
Max Uplift 24=-47(LC 8)
Max Grav 12=3171(LC 1), 24=3638(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2545/6, 3-4=-6447/0, 4-5=-6687/0, 5-6=-9771/0, 6-7=-9771/0, 7-8=-13351/0, 8-9=-13135/0, 9-10=-9423/0, 10-11=-5837/0, 11-12=-6516/0, 2-24=-3509/60
BOT CHORD 22-23=0/412, 21-22=-9/431, 20-21=0/6050, 19-20=0/5989, 18-19=0/12306, 17-18=0/12306, 8-17=-535/125, 15-16=0/811, 14-15=0/8149, 13-14=0/8149, 12-13=0/5743
WEBS 3-23=-4306/0, 21-23=0/2692, 3-21=0/4580, 5-20=0/437, 5-19=0/4367, 6-19=-520/110, 7-19=-2930/0, 7-18=0/433, 7-17=-18/1208, 15-17=0/8811, 9-17=0/4241, 9-15=-2652/102, 10-15=-1/1620, 10-14=0/369, 10-13=-2992/22, 11-13=0/2309, 2-23=0/2801

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft, Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) All plates are MT20 plates unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
11) Use JUS24 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord.

Continued on page 2



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

NOTES-

12) Fill all nail holes where hanger is in contact with lumber.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 228 lb down and 137 lb up at 32-8-0 on top chord, and 237 lb down and 25 lb up at 2-1-12, and 342 lb down at 32-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

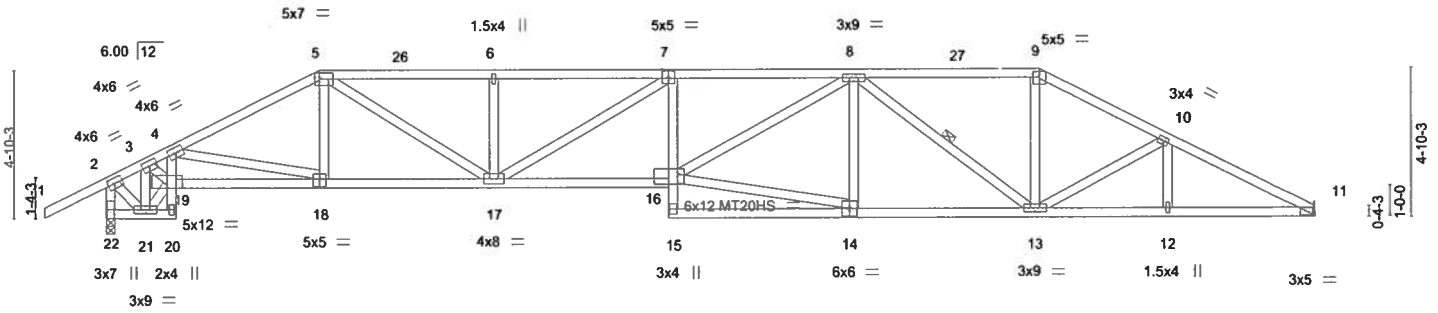
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-5=-60, 5-11=-60, 11-12=-60, 22-24=-20, 17-21=-20, 16-25=-20
   Concentrated Loads (lb)
   Vert: 5=-108(F) 11=-181(F) 22=-237(F) 8=-121(F) 20=-72(F) 17=-59(F) 13=-342(F) 28=-108(F) 29=-108(F) 30=-108(F) 31=-108(F) 32=-108(F) 33=-108(F) 34=-121(F) 35=-121(F) 36=-121(F) 37=-121(F) 38=-121(F) 39=-121(F) 40=-237(F) 41=-72(F) 42=-72(F) 43=-72(F) 44=-72(F) 45=-72(F) 46=-72(F) 47=-59(F) 48=-59(F) 49=-59(F) 50=-59(F) 51=-59(F) 52=-59(F)

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759528
Lot_24	A2	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:31 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-GZknmlEeu8NPDHdWFNdK07FC1j9NA72CwVcLizY7YU

-2-0-0	1-3-8	2-3-8	7-0-0	12-9-0	18-6-0	24-7-0	30-8-0	34-10-12	39-8-0
2-0-0	1-3-8	1-0-0	4-8-8	5-9-0	5-9-0	6-1-0	6-1-0	4-2-12	4-9-4

Scale = 1:71.2



1-3-8	2-3-8	7-0-0	12-9-0	18-6-0	24-7-0	30-8-0	34-10-12	39-8-0
1-3-8	1-0-0	4-8-8	5-9-0	5-9-0	6-1-0	6-1-0	4-2-12	4-9-4

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [5:0-5-4,0-2-8], [7:0-2-8,0-3-0], [9:0-2-8,0-2-4], [16:0-9-4,0-4-0], [18:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.37	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.76	16-17	>624	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.29	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 229 lb	FT = 0%

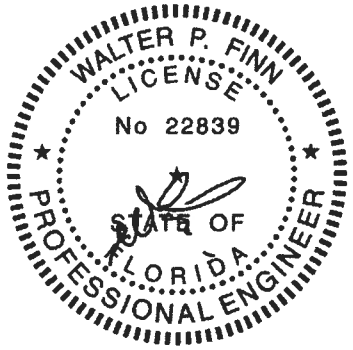
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
16-18: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 8-13

REACTIONS. (size) 11=Mechanical, 22=0-3-8
Max Horz 22=-102(LC 10)
Max Uplift 22=-53(LC 12)
Max Grav 11=1577(LC 1), 22=1713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1102/256, 3-4=-2764/560, 4-5=-2897/608, 5-6=-3848/839, 6-7=-3848/839, 7-8=-4543/982, 8-9=-2461/597, 9-10=-2776/626, 10-11=-3131/672, 2-22=-1640/459
BOT CHORD 18-19=-495/2668, 17-18=-390/2535, 16-17=-799/4592, 13-14=-566/3277, 12-13=-537/2753, 11-12=-537/2753
WEBS 3-21=-1799/283, 19-21=-134/1075, 3-19=-395/2028, 5-17=-306/1598, 6-17=-360/161, 7-17=-902/181, 14-16=-535/3094, 8-16=-264/1476, 8-14=-503/186, 8-13=-1102/204, 9-13=-137/923, 10-13=-374/157, 2-21=-199/1187

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

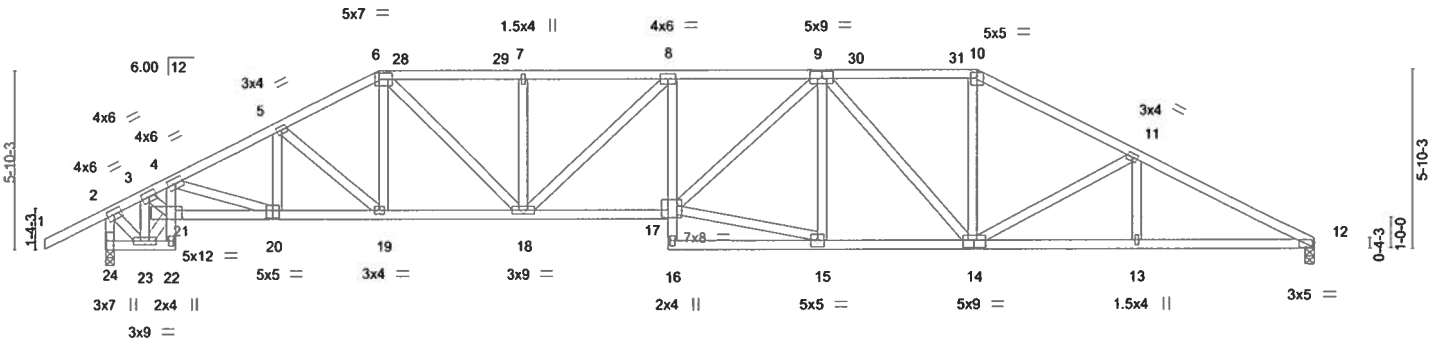
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759529
Lot_24	A3	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:37 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-4j626qq?DkuW78knsWIJ1ZHNJiSlenupxbsyxZMzY7YO

-2-0-0	1-3-8	2-3-8	5-7-12	9-0-0	13-9-0	18-6-0	23-7-0	28-8-0	33-10-12	39-8-0
2-0-0	1-3-8	1-0-0	3-4-4	3-4-4	4-9-0	4-9-0	5-1-0	5-1-0	5-2-12	5-9-4

Scale = 1:71.2



1-3-8	2-3-8	5-7-12	9-0-0	13-9-0	18-6-0	23-7-0	28-8-0	33-10-12	39-8-0
1-3-8	1-0-0	3-4-4	3-4-4	4-9-0	4-9-0	5-1-0	5-1-0	5-2-12	5-9-4

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [6:0-5-4,0-2-8], [9:0-4-8,0-3-0], [10:0-2-8,0-2-4], [14:0-4-8,0-3-0], [17:0-6-0,0-4-12], [20:0-2-8,0-3-0]

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	0.38	Vert(LL)	-0.27	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.54	17-18	>880	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.25	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 245 lb	FT = 0%

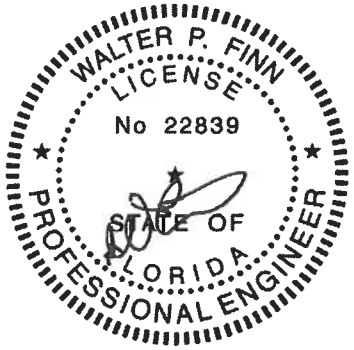
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 12=0-3-8, 24=0-3-8
Max Horz 24=-120(LC 10)
Max Uplift 24=-53(LC 12)
Max Grav 12=1577(LC 1), 24=1713(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1102/261, 3-4=-2754/570, 4-5=-2935/635, 5-6=-2701/621, 6-7=-3110/727, 7-8=-3110/727, 8-9=-3525/811, 9-10=-2285/592, 10-11=-2618/617, 11-12=-3099/677, 2-24=-1640/465
BOT CHORD 20-21=-476/2623, 19-20=-437/2592, 18-19=-347/2381, 17-18=-580/3552, 14-15=-443/2733, 13-14=-531/2717, 12-13=-531/2717
WEBS 3-23=-1805/308, 21-23=-158/1078, 3-21=-379/1999, 5-19=-305/117, 6-19=-27/300, 6-18=-203/1069, 7-18=-305/138, 8-18=-644/122, 15-17=-432/2654, 9-17=-178/1059, 9-15=-525/164, 9-14=-760/128, 10-14=-129/849, 11-14=-509/201, 2-23=-209/1191

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

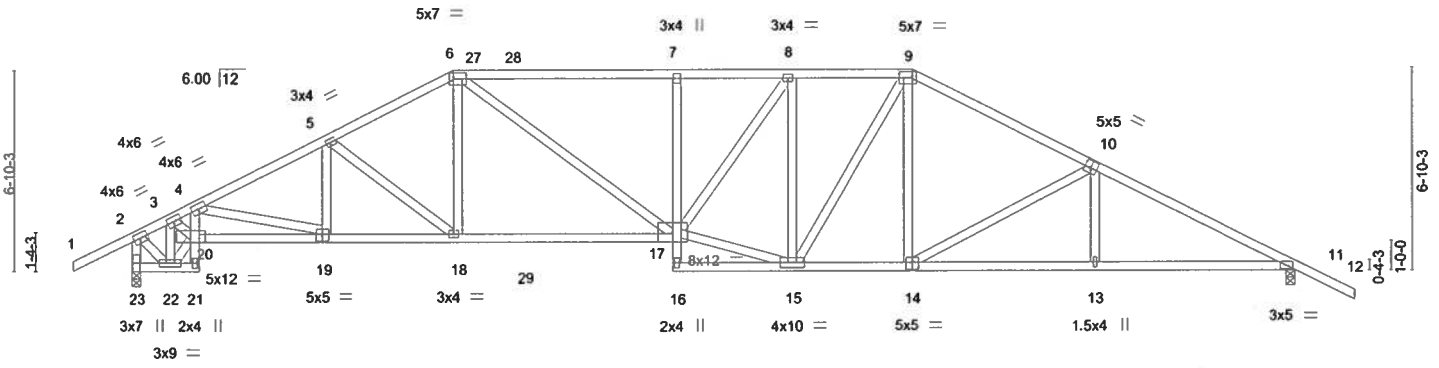
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759530
Lot_24	A4	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:39 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-15DpXWrFIM8EMSu9_xXVeiTZ8FTwFp6E2AR1eEzY7YM

-2-0-0 | 1-3-8 | 2-3-8 | 6-7-12 | 11-0-0 | 18-6-0 | 22-7-0 | 26-8-0 | 32-10-12 | 39-8-0 | 41-8-0
2-0-0 | 1-3-8 | 1-0-0 | 4-4-4 | 4-4-4 | 7-6-0 | 4-1-0 | 4-1-0 | 6-2-12 | 6-9-4 | 2-0-0

Scale = 1:73.9



1-3-8 | 2-3-8 | 6-7-12 | 11-0-0 | 18-6-0 | 22-7-0 | 26-8-0 | 32-10-12 | 39-8-0
1-3-8 | 1-0-0 | 4-4-4 | 4-4-4 | 7-6-0 | 4-1-0 | 4-1-0 | 6-2-12 | 6-9-4

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [6:0-5-4,0-2-8], [9:0-5-4,0-2-8], [10:0-2-8,0-3-0], [14:0-2-8,0-3-0], [19:0-2-8,0-3-0]

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	0.76	Vert(LL)	-0.21	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.48	17-18	>991	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.22	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 249 lb	FT = 0%

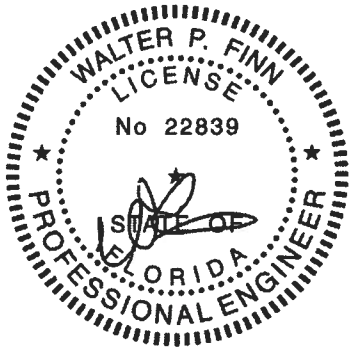
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 23=0-3-8, 11=0-3-8
Max Horz 23=-152(LC 10)
Max Uplift 23=-51(LC 12), 11=-49(LC 12)
Max Grav 23=1710(LC 1), 11=1700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1099/263, 3-4=-2760/514, 4-5=-2901/615, 5-6=-2573/593, 6-7=-2832/689, 7-8=-2799/682, 8-9=-2327/615, 9-10=-2450/596, 10-11=-3016/654, 2-23=-1637/470
BOT CHORD 19-20=-371/2687, 18-19=-360/2540, 17-18=-251/2262, 7-17=-405/187, 14-15=-263/2108, 13-14=-459/2625, 11-13=-458/2629
WEBS 3-22=-1798/231, 20-22=-58/1147, 3-20=-350/2024, 5-18=-372/145, 6-18=-7/437, 6-17=-153/808, 15-17=-252/2286, 8-17=-115/828, 8-15=-880/170, 9-15=-73/529, 9-14=-47/433, 10-14=-594/225, 10-13=0/271, 2-22=-210/1184

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 11.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

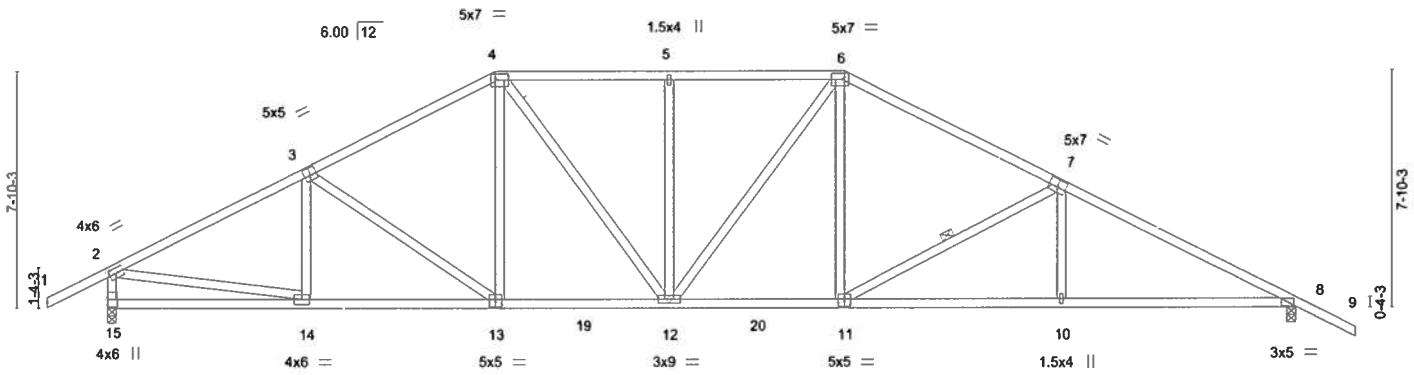
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759531
Lot_24	A5	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:40 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-VInBksstWfG5_cTMYe2kBw?nsfn6_KBNHqAbAhzY7YL

-2-0-0	6-7-12	13-0-0	18-10-0	24-8-0	31-10-12	39-8-0	41-8-0
2-0-0	6-7-12	6-4-4	5-10-0	5-10-0	7-2-12	7-9-4	2-0-0

Scale = 1:72.3



6-7-12	13-0-0	18-10-0	24-8-0	31-10-12	39-8-0
6-7-12	6-4-4	5-10-0	5-10-0	7-2-12	7-9-4

Plate Offsets (X,Y)— [2:0-2-15,0-2-0], [3:0-2-8,0-3-0], [4:0-5-4,0-2-8], [6:0-5-4,0-2-8], [7:0-3-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.16	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.77	Vert(CT)	-0.33	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 234 lb	FT = 0%

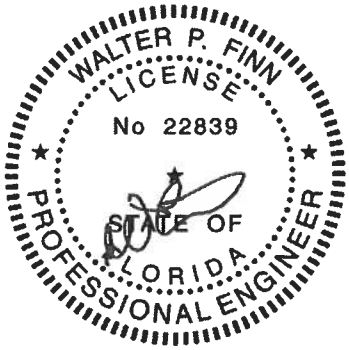
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 15=0-3-8, 8=0-3-8
Max Horz 15=-170(LC 10)
Max Uplift 15=-51(LC 12), 8=-49(LC 12)
Max Grav 15=1710(LC 1), 8=1700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2317/534, 3-4=-2130/561, 4-5=-2073/595, 5-6=-2073/595, 6-7=-2299/586, 7-8=-2972/661, 2-15=-1640/505
BOT CHORD 14-15=-52/286, 13-14=-299/2033, 12-13=-187/1857, 11-12=-219/1960, 10-11=-454/2577, 8-10=-452/2581
WEBS 4-13=-15/336, 4-12=-81/524, 5-12=-376/155, 6-12=-33/343, 6-11=-50/535, 7-11=-709/269, 7-10=0/316, 2-14=-347/1850

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

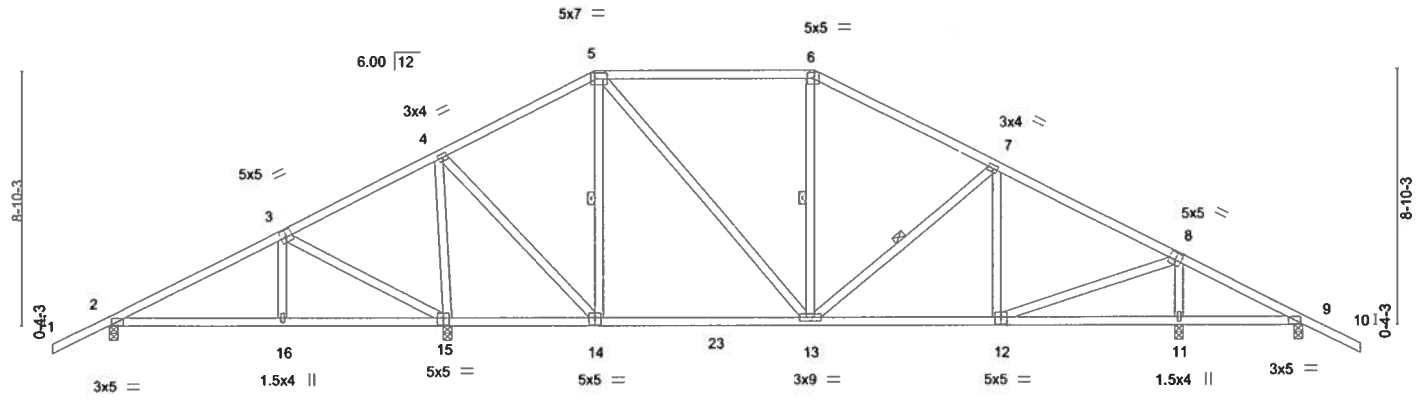
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759532
Lot_24	A6	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:41 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-zULZyCtVHzPycm2Y5MZzk7YxI3ByjiFXWUw8i7zY7YK

-2-0-0	6-0-5	11-6-3	17-0-0	24-8-0	31-0-2	37-4-4	41-8-0	43-8-0
2-0-0	6-0-5	5-5-13	5-5-13	7-8-0	6-4-2	6-4-2	4-3-12	2-0-0

Scale = 1:75.6



6-0-5	11-9-12	17-0-0	24-8-0	31-0-2	37-4-4	41-8-0
6-0-5	5-9-7	5-2-4	7-8-0	6-4-2	6-4-2	4-3-12

Plate Offsets (X,Y)— [3:0-2-8,0-3-0], [5:0-5-4,0-2-8], [6:0-3-0,0-2-8], [8:0-2-8,0-3-0], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.11	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.19	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 243 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-14, 6-13, 7-13

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=176(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 2=-147(LC 12), 15=-108(LC 12), 9=-109(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9 except 2=494(LC 21), 15=1638(LC 1), 11=1252(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-401/294, 3-4=-38/298, 4-5=-571/219, 5-6=-728/317, 6-7=-875/300, 7-8=-1000/274
BOT CHORD 2-16=-120/301, 15-16=-116/297, 14-15=-236/278, 13-14=0/469, 12-13=-30/828
WEBS 3-16=-155/251, 3-15=-533/438, 4-15=-1278/359, 4-14=-131/921, 5-14=-537/188, 5-13=-117/460, 8-12=-103/969, 8-11=-1138/324

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 2=147, 15=108, 9=109.
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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

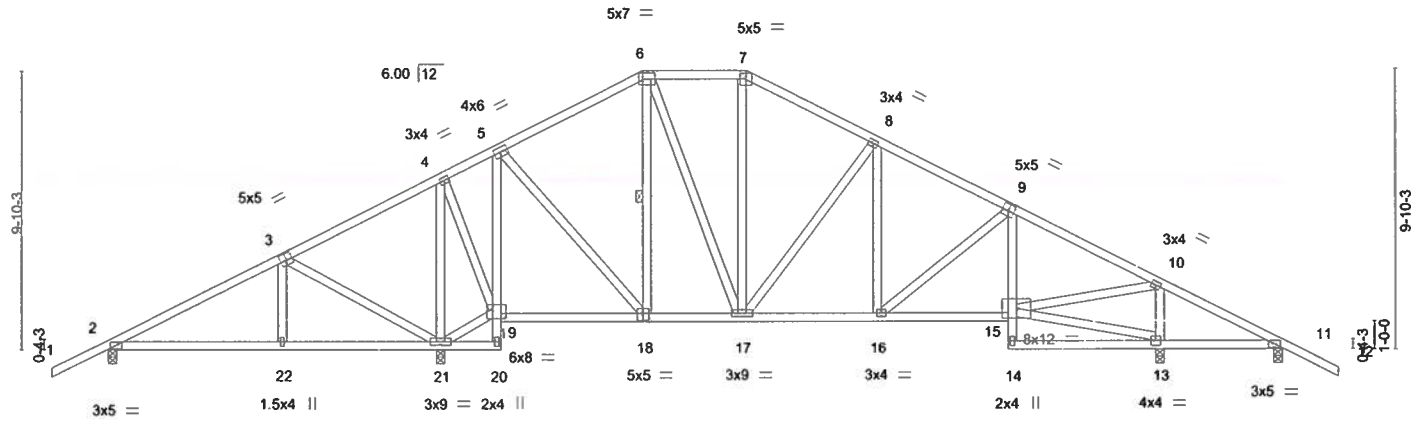
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759533
Lot_24	A7	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:42 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-Rgvx9Yt82HXpDvdkf34CGL58FTYKSALgk8fiEZzY7YJ

-2-0-0	6-2-2	11-9-12	13-11-8	19-0-0	22-8-0	27-3-12	31-11-8	37-4-4	41-8-0	43-8-0
2-0-0	6-2-2	5-7-10	2-1-12	5-0-8	3-8-0	4-7-12	4-7-12	5-4-12	4-3-12	2-0-0

Scale = 1:76.9



6-2-2	11-9-12	13-11-8	19-0-0	22-8-0	27-3-12	31-11-8	37-4-4	41-8-0
6-2-2	5-7-10	2-1-12	5-0-8	3-8-0	4-7-12	4-7-12	5-4-12	4-3-12

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.05	22-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.08	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	13	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 282 lb	FT = 0%

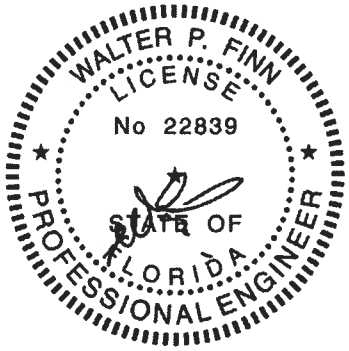
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-18

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-194(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-151(LC 12), 11=-117(LC 12), 21=-106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 11 except 2=443(LC 21), 21=1729(LC 1), 13=1358(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-283/275, 3-4=-63/471, 5-6=-523/234, 6-7=-543/286, 7-8=-675/281, 8-9=-935/289, 9-10=-1014/255, 10-11=-49/489
BOT CHORD 5-19=-925/267, 18-19=-87/293, 17-18=0/418, 16-17=0/780, 15-16=-22/849, 11-13=-382/132
WEBS 3-22=-152/255, 3-21=-557/453, 4-21=-1130/164, 19-21=-417/353, 4-19=-14/808, 5-18=-105/661, 6-18=-404/124, 6-17=-97/402, 8-17=-398/183, 13-15=-403/117, 10-15=-141/1246, 10-13=-1153/311

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=151, 11=117, 21=106.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

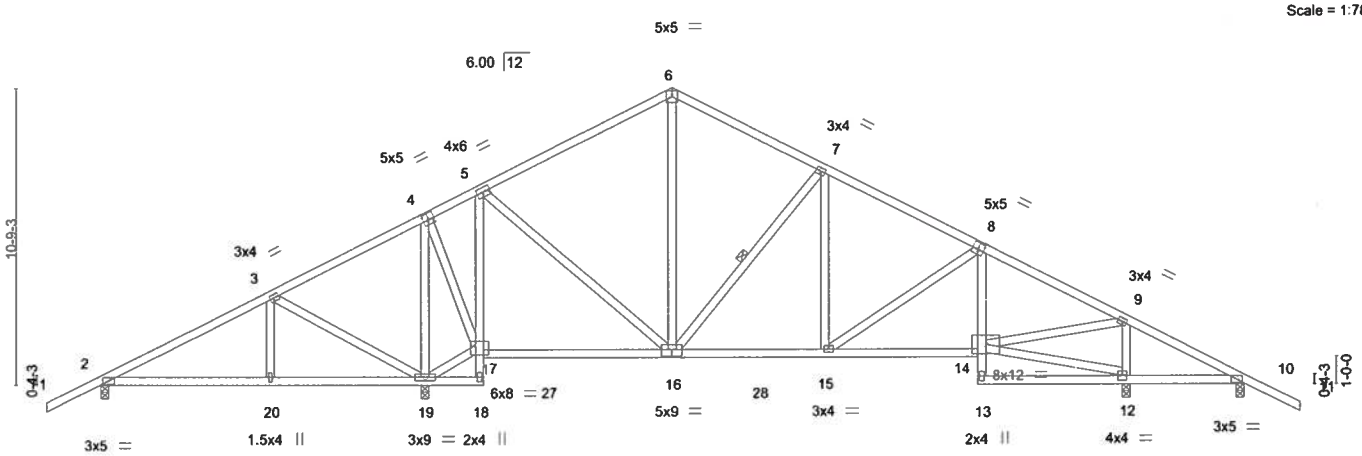
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759534
Lot_24	A8	Roof Special	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:43 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-vtTJMuumpafgr3CxDnbRpYdJfst_BcvpzoPFn?zY7YI

-2-0-0	6-2-2	11-9-12	13-11-8	20-10-0	26-4-12	31-11-8	37-4-4	41-8-0	43-8-0
2-0-0	6-2-2	5-7-10	2-1-12	6-10-8	5-6-12	5-6-12	5-4-12	4-3-12	2-0-0

Scale = 1:78.9



6-2-2	11-9-12	13-11-8	20-10-0	26-4-12	31-11-8	37-4-4	41-8-0
6-2-2	5-7-10	2-1-12	6-10-8	5-6-12	5-6-12	5-4-12	4-3-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [16:0-4-8,0-3-0], [17:0-5-12,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.06	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.13	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 263 lb	FT = 0%

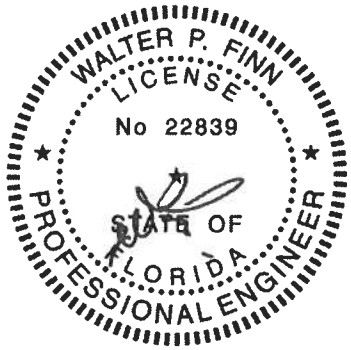
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-16

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-211(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-151(LC 12), 10=-120(LC 12), 19=-107(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10 except 2=435(LC 21), 19=1758(LC 1), 12=1349(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-271/264, 3-4=-79/540, 5-6=-617/260, 6-7=-578/270, 7-8=-920/288, 8-9=-1004/258, 9-10=-47/491
BOT CHORD 5-17=-966/314, 16-17=-98/292, 15-16=0/736, 14-15=-29/850, 10-12=-397/130
WEBS 3-20=-151/254, 3-19=-567/461, 4-19=-1213/163, 17-19=-436/388, 4-17=-38/912, 5-16=-91/639, 7-16=-514/210, 7-15=0/254, 12-14=-421/125, 9-14=-144/1241, 9-12=-1144/308

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 2, 120 lb uplift at joint 10 and 107 lb uplift at joint 19.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



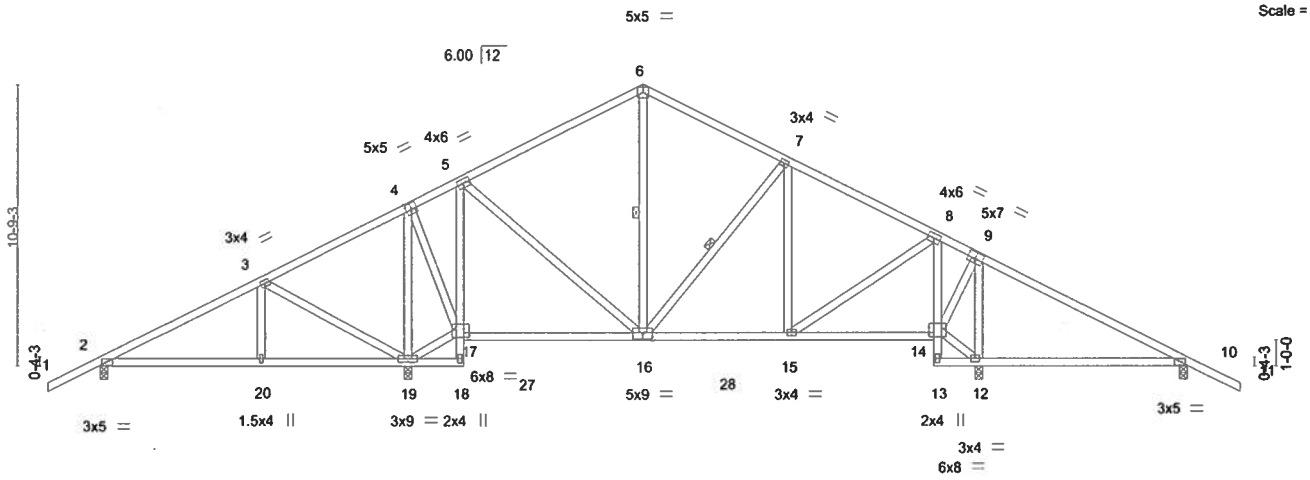
Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759535
Lot_24	A9	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:45 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-sFa4naw0LCvO4NLJKBdvuzjcrgZmfXI6Q6uMruzY7YG

-2-0-0	6-2-2	11-9-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0	43-8-0
2-0-0	6-2-2	5-7-10	2-1-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12	2-0-0

Scale = 1:83.0



6-2-2	11-9-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0
6-2-2	5-7-10	2-1-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-12,0-4-4], [16:0-4-8,0-3-0], [17:0-6-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.15	12-26	>658	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.18	12-26	>537	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 258 lb	FT = 0%

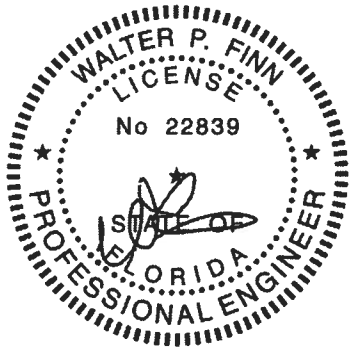
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 7-16

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=211(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=-150(LC 12), 10=-145(LC 12), 19=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=475(LC 21), 10=343(LC 22), 19=1516(LC 1), 12=1272(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-358/298, 3-4=-44/403, 5-6=-532/247, 6-7=-493/259, 7-8=-637/237, 9-10=0/277
BOT CHORD 2-20=-123/263, 19-20=-123/263, 5-17=-752/270, 16-17=-49/271, 15-16=0/502, 8-14=-481/30
WEBS 3-20=-151/253, 3-19=-566/460, 4-19=-1072/134, 17-19=-278/353, 4-17=-12/789, 5-16=-47/428, 8-15=-11/467, 9-14=0/443, 9-12=-943/136

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=150, 10=145, 19=112.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

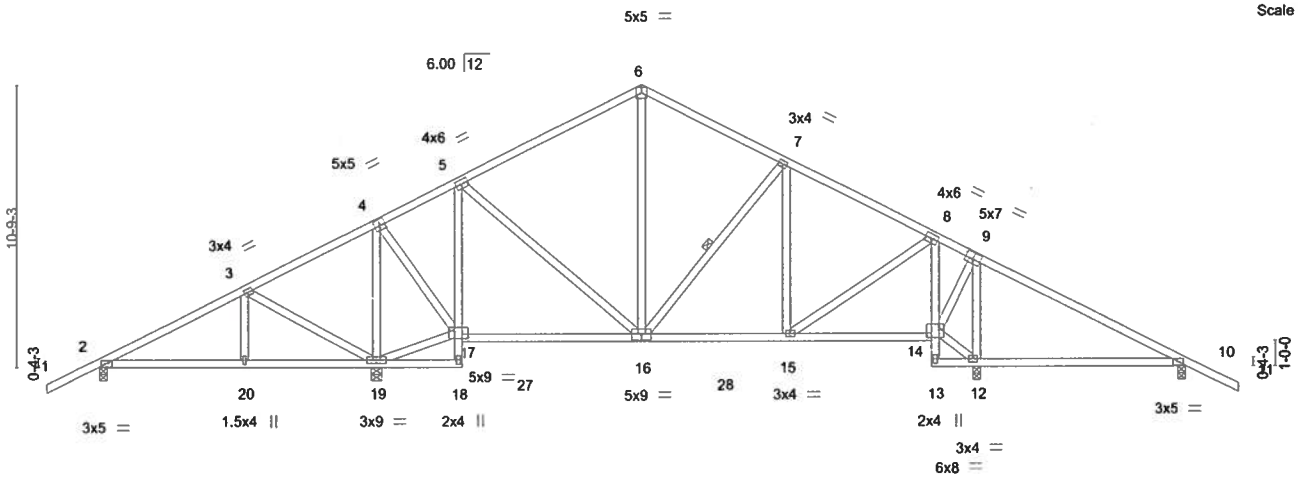
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759536
Lot_24	A10	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:07 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-zxlipaSAIW6nWXR06Dy?Ly87QMbsINpWhBhLV5zY7Ys

-2-0-0	5-7-2	10-7-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0	43-8-0
2-0-0	5-7-2	5-0-10	3-3-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12	2-0-0

Scale = 1:83.0



5-7-2	10-7-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0
5-7-2	5-0-10	3-3-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12

Plate Offsets (X,Y)— [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-12,0-4-4], [16:0-4-8,0-3-0], [17:0-6-4,0-4-0]

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	0.62	Vert(LL)	0.15	12-26	>658	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.18	12-26	>538	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 257 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-16

REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-4-15.
(lb) - Max Horz 2=-211(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12 except 2=-143(LC 12), 10=-144(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=422(LC 21), 10=339(LC 22), 19=1520(LC 1), 12=1330(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-269/254, 3-4=-53/429, 4-5=-311/115, 5-6=-597/269, 6-7=-559/280, 7-8=-686/253, 9-10=0/287
BOT CHORD 5-17=-642/242, 16-17=0/322, 15-16=0/553, 8-14=-525/45
WEBS 3-19=-504/413, 4-19=-1132/228, 17-19=-278/307, 4-17=-80/837, 5-16=-3/287, 8-15=-27/514, 9-14=0/486, 9-12=-990/151

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12 except (jt=lb) 2=143, 10=144.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

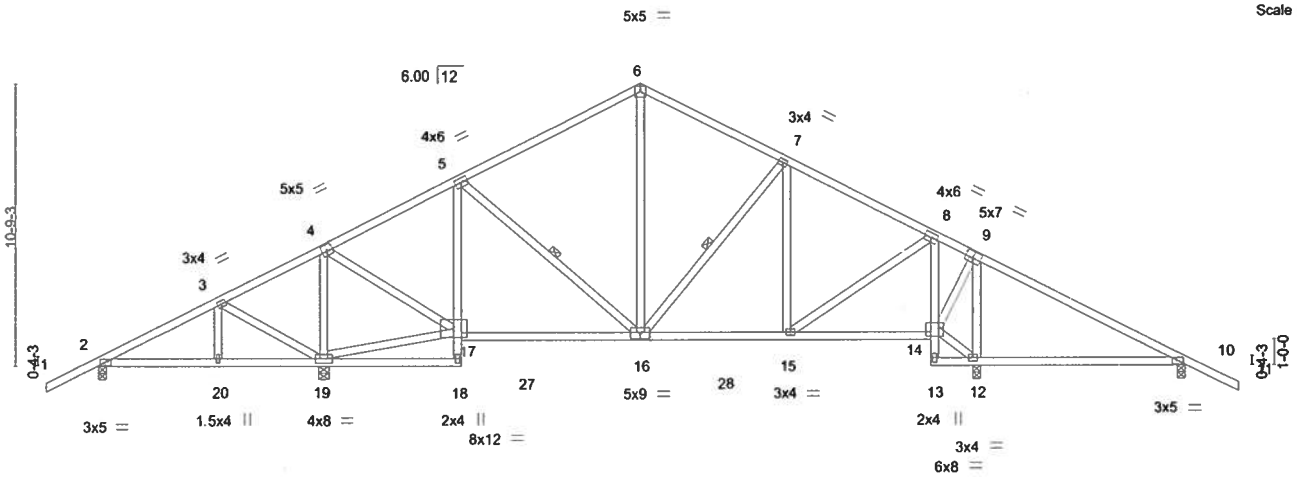
Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759537
Lot_24	A11	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:09 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-vKPTEGURp8NUmrbODe_TRNDTs9HIDJrp9VASa_zY7Yq

-2-0-0	4-7-2	8-7-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0	43-8-0
2-0-0	4-7-2	4-0-10	5-3-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12	2-0-0

Scale = 1:83.0



4-7-2	8-7-12	13-11-8	20-10-0	26-4-12	31-11-8	33-8-4	41-8-0
4-7-2	4-0-10	5-3-12	6-10-8	5-6-12	5-6-12	1-8-12	7-11-12

Plate Offsets (X,Y)— [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-12,0-4-4], [16:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.15	12-26	>659	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	12-26	>539	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 258 lb	FT = 0%

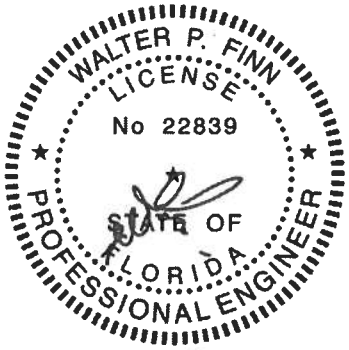
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-16, 7-16

REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-4-15.
(lb) - Max Horz 2=211(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 19, 12 except 2=-131(LC 12), 10=-143(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=317(LC 21), 10=325(LC 22), 19=1531(LC 1), 12=1450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-62/493, 4-5=-647/211, 5-6=-712/309, 6-7=-688/319, 7-8=-765/281, 9-10=0/335
BOT CHORD 5-17=-432/195, 16-17=0/632, 15-16=0/634, 8-14=-624/73
WEBS 3-19=-363/317, 4-19=-1216/310, 17-19=-281/240, 4-17=-130/971, 6-16=-82/284, 8-15=-58/618, 9-14=0/560, 9-12=-1077/178

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 12 except (jt=lb) 2=131, 10=143.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

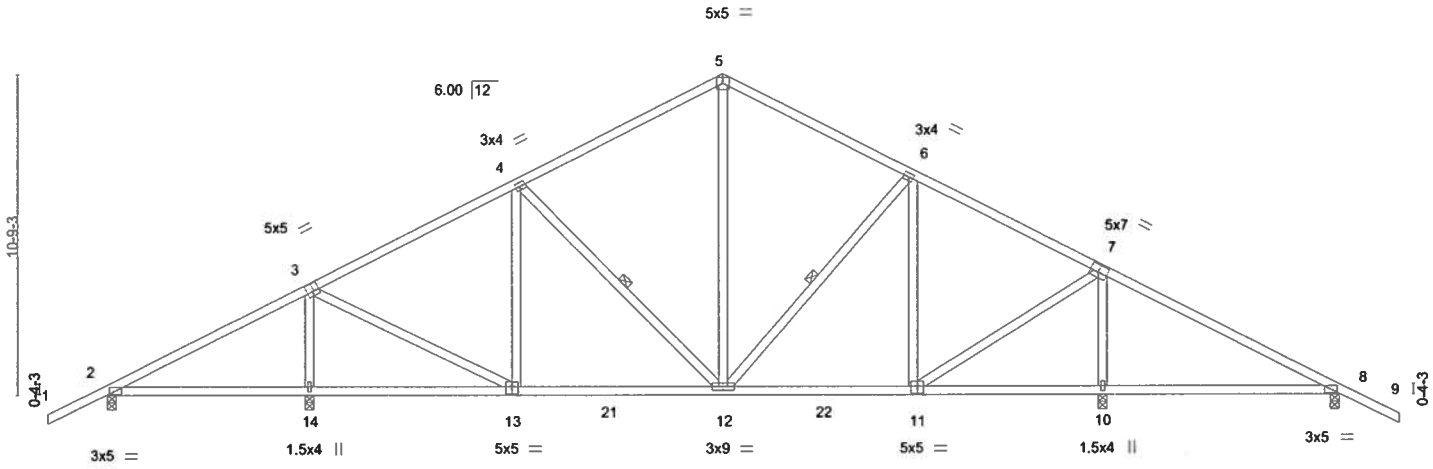
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759538
Lot_24	A12	Common	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:10 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-NWzrRcV3aRVLN?AbnLVizbmehZcuynayN9v?6QzY7Yp

-2-0-0	6-9-12	13-9-14	20-10-0	27-3-2	33-8-4	41-8-0	43-8-0
2-0-0	6-9-12	7-0-2	7-0-2	6-5-2	6-5-2	7-11-12	2-0-0

Scale = 1:73.2



6-9-12	13-9-14	20-10-0	27-3-2	33-8-4	41-8-0
6-9-12	7-0-2	7-0-2	6-5-2	6-5-2	7-11-12

Plate Offsets (X,Y)-- [3:0-2-4,0-3-4], [7:0-3-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	0.18	10-20	>542	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.19	10-20	>497	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 234 lb	FT = 0%

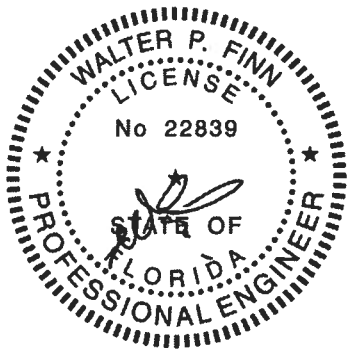
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-211(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 14, 10 except 2=-128(LC 12), 8=-137(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=342(LC 21), 14=1413(LC 1), 10=1458(LC 1), 8=397(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-71/262, 3-4=-944/323, 4-5=-840/376, 5-6=-822/378, 6-7=-851/315
BOT CHORD 12-13=-8/863, 11-12=0/696
WEBS 3-14=-1297/374, 3-13=-77/954, 4-13=-275/141, 5-12=-121/352, 6-11=-343/127, 7-11=-33/879, 7-10=-1278/370

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10 except (jt=lb) 2=128, 8=137.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

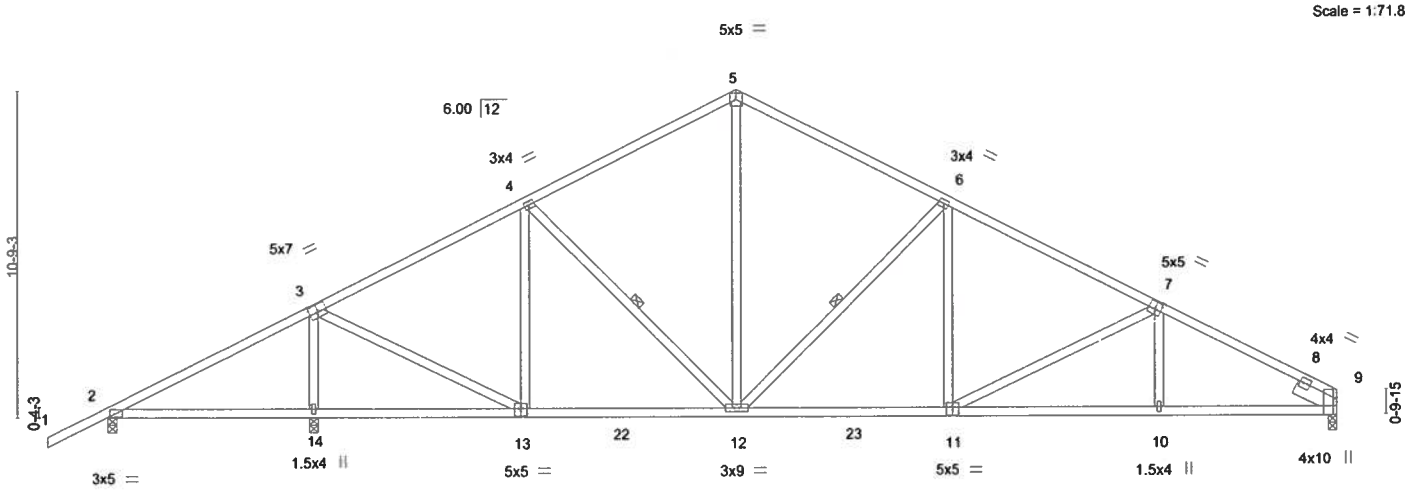
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759539
Lot_24	A13	Common	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:11 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-rjXDfxVhLIdC?9InL20xWoIIfzuchBD6cpfZeszY7Yo

-2-0-0	6-9-12	13-9-14	20-10-0	27-10-2	34-10-4	40-8-8
2-0-0	6-9-12	7-0-2	7-0-2	7-0-2	7-0-2	5-10-4

Scale = 1:71.8



6-9-12	13-9-14	20-10-0	27-10-2	34-10-4	40-8-8
6-9-12	7-0-2	7-0-2	7-0-2	7-0-2	5-10-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.09	14-17	>885	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.27	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 230 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 6-12

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 9=0-3-8
Max Horz 2=200(LC 11)
Max Uplift 2=-118(LC 12), 14=-48(LC 12)
Max Grav 2=201(LC 21), 14=1980(LC 1), 9=1294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-112/711, 3-4=-1078/334, 4-5=-1190/442, 5-6=-1190/444, 6-7=-1771/495, 7-9=-2113/521
BOT CHORD 2-14=-580/137, 13-14=-541/125, 12-13=-84/969, 11-12=-230/1498, 10-11=-384/1809, 9-10=-382/1810
WEBS 3-14=-1816/517, 3-13=-231/1519, 4-13=-555/209, 5-12=-177/649, 6-12=-810/286, 6-11=0/417, 7-11=-366/173

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=118.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

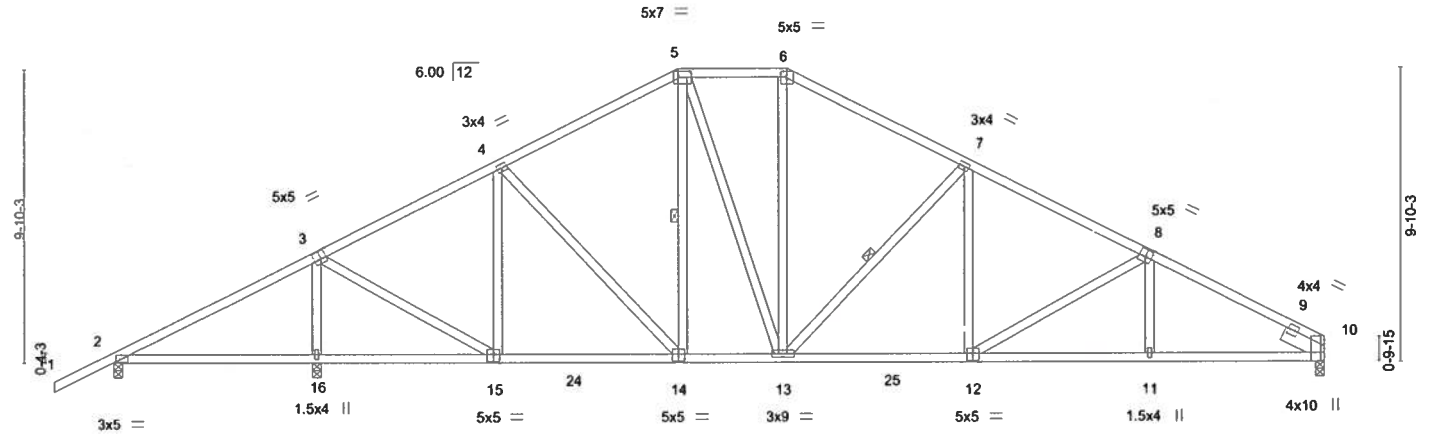
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759540
Lot_24	A14	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:12 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-Jv5bsHWJ63I3dIKzvmYA20rw6NABQeRFrTO6AlzY7Yn

-2-0-0	6-9-12	12-10-14	19-0-0	22-8-0	28-9-2	34-10-4	40-8-8
2-0-0	6-9-12	6-1-2	6-1-2	3-8-0	6-1-2	6-1-2	5-10-4

Scale = 1:73.0



6-9-12	12-10-14	19-0-0	22-8-0	28-9-2	34-10-4	40-8-8
6-9-12	6-1-2	6-1-2	3-8-0	6-1-2	6-1-2	5-10-4

Plate Offsets (X,Y)-- [3:0-2-4,0-3-4], [5:0-5-4,0-2-8], [6:0-2-8,0-2-4], [8:0-2-8,0-3-0], [10:0-6-0,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.09	16-19	>881	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.24	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 250 lb	FT = 0%

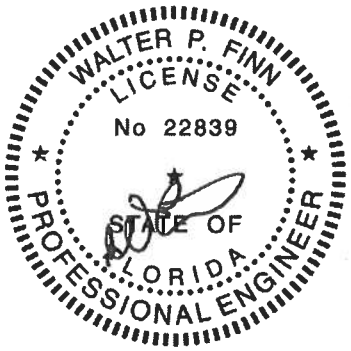
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-14, 7-13

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 10=0-3-8
Max Horz 2=183(LC 11)
Max Uplift 2=-120(LC 12), 16=-45(LC 12)
Max Grav 2=190(LC 21), 16=1978(LC 1), 10=1294(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-104/700, 3-4=-980/309, 4-5=-1189/427, 5-6=-1091/450, 6-7=-1309/453, 7-8=-1791/498, 8-10=-2102/512
BOT CHORD 2-16=-568/128, 15-16=-530/117, 14-15=-73/871, 13-14=-42/988, 12-13=-244/1551, 11-12=-374/1796, 10-11=-372/1797
WEBS 3-16=-1813/491, 3-15=-215/1467, 4-15=-640/210, 4-14=0/331, 5-13=-66/412, 6-13=-65/321, 7-13=-730/260, 7-12=-2/383, 8-12=-298/151

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=120.
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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

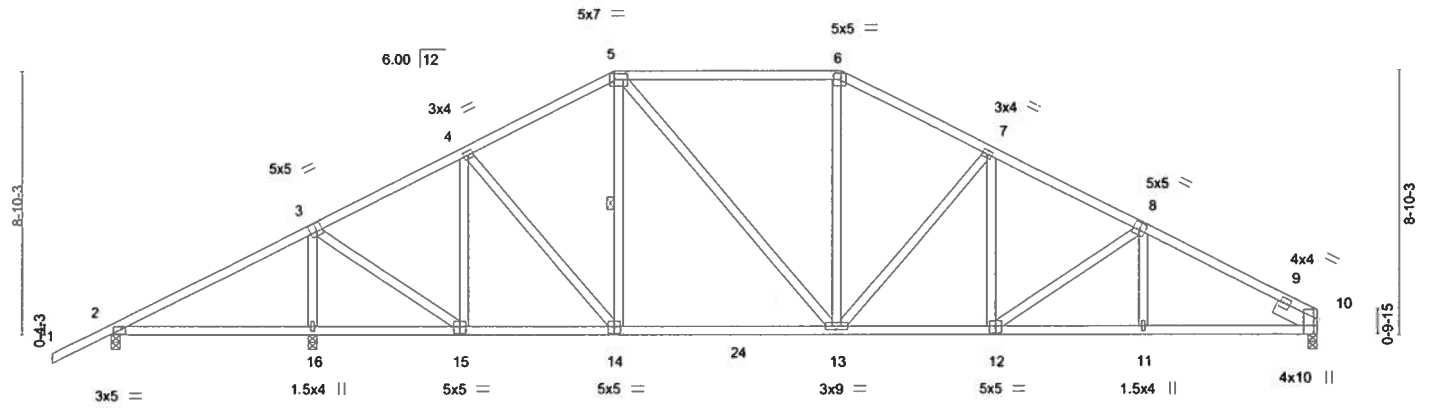
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759541
Lot_24	A15	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:13 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-n5f_3dXxtMtwFSvAST3PbDO5?mWh93yP478fjlzY7Ym

-2-0-0	6-9-12	11-10-14	17-0-0	24-8-0	29-9-2	34-10-4	40-8-8
2-0-0	6-9-12	5-1-2	5-1-2	7-8-0	5-1-2	5-1-2	5-10-4

Scale = 1.73.2



6-9-12	11-10-14	17-0-0	24-8-0	29-9-2	34-10-4	40-8-8
6-9-12	5-1-2	5-1-2	7-8-0	5-1-2	5-1-2	5-10-4

Plate Offsets (X,Y)— [3:0-2-4,0-3-4], [5:0-5-4,0-2-8], [6:0-3-0,0-2-8], [8:0-2-8,0-3-0], [10:0-6-0,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	0.09	16-19	>896	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.28	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 241 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-14

REACTIONS. (size) 2=0-3-8, 16=0-3-8, 10=0-3-8
Max Horz 2=165(LC 11)
Max Uplift 2=-123(LC 12), 16=-42(LC 12), 10=-1(LC 12)
Max Grav 2=172(LC 21), 16=1987(LC 1), 10=1293(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-93/698, 3-4=-833/278, 4-5=-1164/398, 5-6=-1248/455, 6-7=-1456/461, 7-8=-1830/500, 8-10=-2092/503
BOT CHORD 2-16=-572/120, 15-16=-534/109, 14-15=-54/726, 13-14=-58/1012, 12-13=-256/1592, 11-12=-364/1785, 10-11=-363/1786
WEBS 3-16=-1821/467, 3-15=-194/1415, 4-15=-759/196, 4-14=-6/514, 5-13=-83/473, 6-13=-17/339, 7-13=-531/218, 7-12=-25/305

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10 except (jt=lb) 2=123.
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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

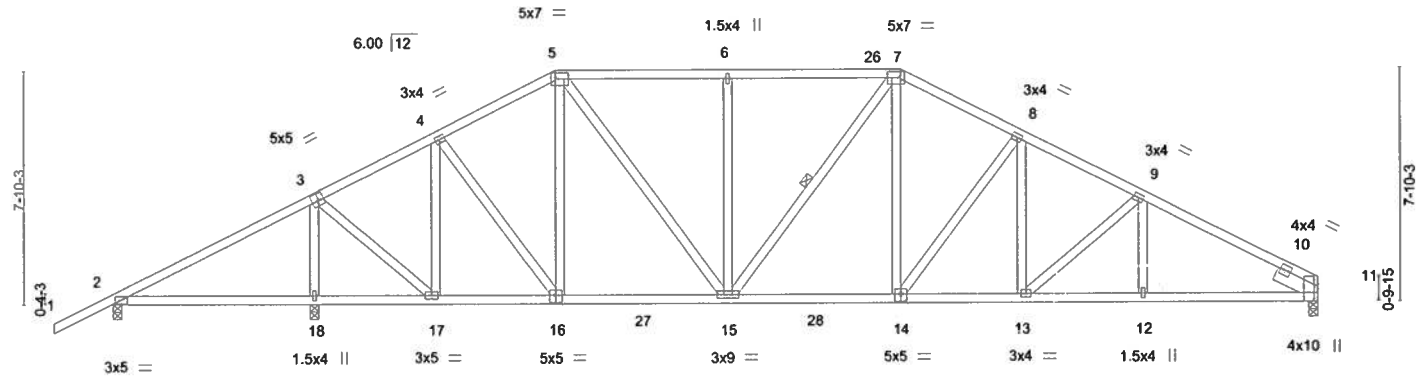
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759542
Lot_24	A16	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:14 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-GIDMHzYZeg?nscUM0Bae7RwGuAtFuY8YIntDFBzY7YI

-2-0-0	6-9-12	10-10-14	15-0-0	20-10-0	26-8-0	30-9-2	34-10-4	40-8-8
2-0-0	6-9-12	4-1-2	4-1-2	5-10-0	5-10-0	4-1-2	4-1-2	5-10-4

Scale = 1:73.3



6-9-12	10-10-14	15-0-0	20-10-0	26-8-0	30-9-2	34-10-4	40-8-8
6-9-12	4-1-2	4-1-2	5-10-0	5-10-0	4-1-2	4-1-2	5-10-4

Plate Offsets (X,Y)-- [3:0-2-4,0-3-0], [5:0-5-4,0-2-8], [7:0-5-4,0-2-8], [11:0-6-0,Edge], [14:0-2-8,0-3-0], [16:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	0.09	18-25	>915	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.21	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 252 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-15

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 18=0-3-8
Max Horz 2=146(LC 11)
Max Uplift 2=-121(LC 12), 18=-45(LC 12)
Max Grav 11=1290(LC 1), 2=148(LC 21), 18=2002(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-99/731, 3-4=-678/238, 4-5=-1069/359, 5-6=-1337/444, 6-7=-1337/444, 7-8=-1599/473, 8-9=-1867/497, 9-11=-2079/491
BOT CHORD 2-18=-606/126, 17-18=-567/116, 16-17=-22/583, 15-16=-57/947, 14-15=-155/1371, 13-14=-266/1641, 12-13=-352/1773, 11-12=-352/1773
WEBS 3-18=-1835/450, 3-17=-182/1385, 4-17=-870/200, 4-16=-59/653, 5-16=-408/98, 5-15=-142/747, 6-15=-392/173, 7-14=-88/525, 8-14=-454/185, 8-13=-32/254

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=121.
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.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

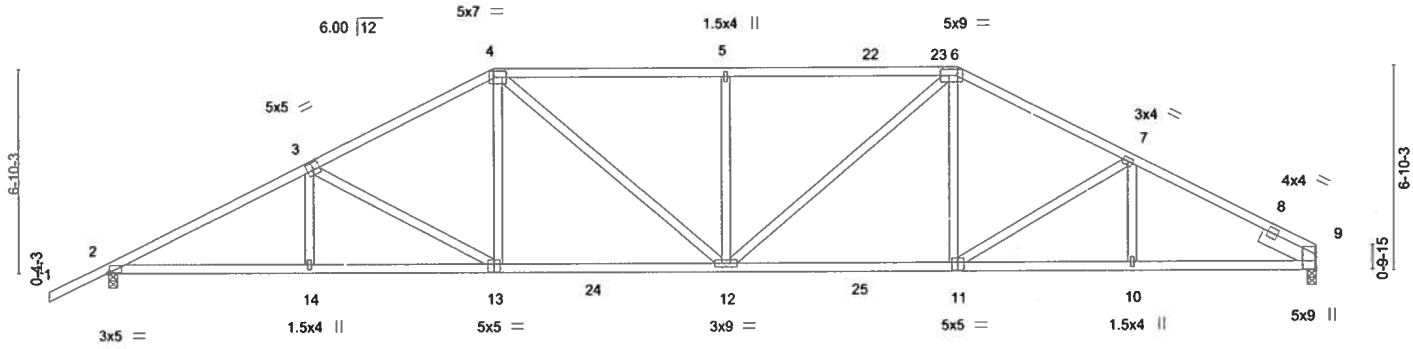
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759543
Lot_24	A17	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:15 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-kUmkUJZCP_7eUm3Yau5tgeTRlaESd_ViXRdmndzY7Yk

-2-0-0	6-9-4	13-0-0	20-10-0	28-8-0	34-6-8	40-8-8
2-0-0	6-9-4	6-2-12	7-10-0	7-10-0	5-10-8	6-2-0

Scale = 1:73.0



6-9-4	13-0-0	20-10-0	28-8-0	34-6-8	40-8-8
6-9-4	6-2-12	7-10-0	7-10-0	5-10-8	6-2-0

Plate Offsets (X,Y)-- [2:0-0-4,0-0-0], [3:0-2-8,0-3-0], [4:0-5-4,0-2-8], [6:0-7-0,0-2-8], [9:0-5-12,0-0-6], [11:0-2-8,0-3-4], [13:0-2-8,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.79	Vert(LL)	-0.23	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.48	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 220 lb	FT = 0%

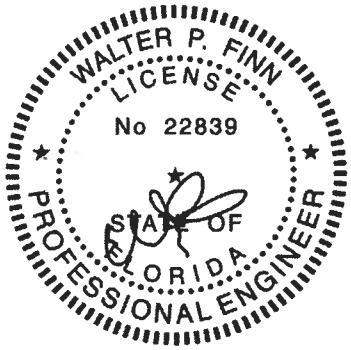
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 2-0-0

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

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=128(LC 11)
Max Uplift 2=-50(LC 12)
Max Grav 9=1625(LC 1), 2=1751(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3121/684, 3-4=-2573/624, 4-5=-2586/677, 5-6=-2586/677, 6-7=-2450/605, 7-9=-2718/622
BOT CHORD 2-14=-541/2737, 13-14=-542/2734, 12-13=-348/2249, 11-12=-332/2146, 10-11=-465/2340, 9-10=-465/2340
WEBS 3-14=0/252, 3-13=-569/223, 4-13=-25/504, 4-12=-95/607, 5-12=-521/232, 6-12=-114/695, 6-11=-2/384

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=41ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

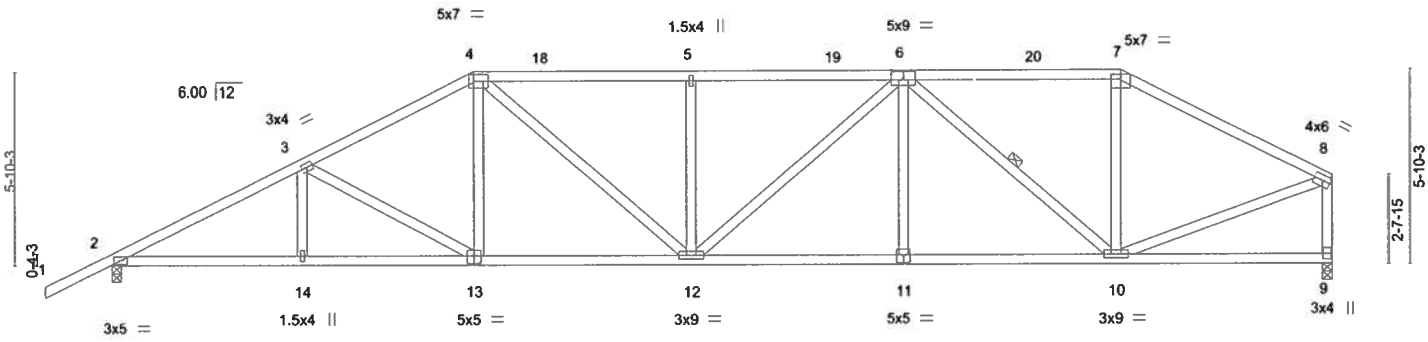
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759544
Lot_24	A18	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:16 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-CgK6ifZqAHFV6wdl8cc6Ds0hq_d?MUorm5MKK4zY7Yj

-2-0-0	5-9-4	11-0-0	17-7-4	24-0-12	30-8-0	37-0-8
2-0-0	5-9-4	5-2-12	6-7-4	6-5-8	6-7-4	6-4-8

Scale = 1:65.7



5-9-4	11-0-0	17-7-4	24-0-12	30-8-0	37-0-8
5-9-4	5-2-12	6-7-4	6-5-8	6-7-4	6-4-8

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [6:0-4-8,0-3-0], [7:0-3-8,0-1-12], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.16	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.34	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 210 lb	FT = 0%

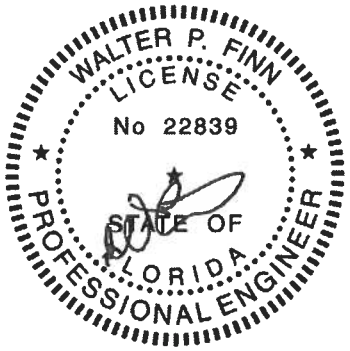
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=142(LC 11)
Max Uplift 2=-50(LC 12)
Max Grav 2=1599(LC 1), 9=1473(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2829/596, 3-4=-2387/550, 4-5=-2485/610, 5-6=-2485/610, 6-7=-1433/402, 7-8=-1676/392, 8-9=-1410/344
BOT CHORD 2-14=-596/2470, 13-14=-596/2470, 12-13=-439/2071, 11-12=-461/2265, 10-11=-461/2265
WEBS 3-13=-462/180, 4-13=-17/413, 4-12=-103/649, 5-12=-414/186, 6-12=-66/318, 6-11=0/252, 6-10=-1145/226, 7-10=0/413, 8-10=-258/1443

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

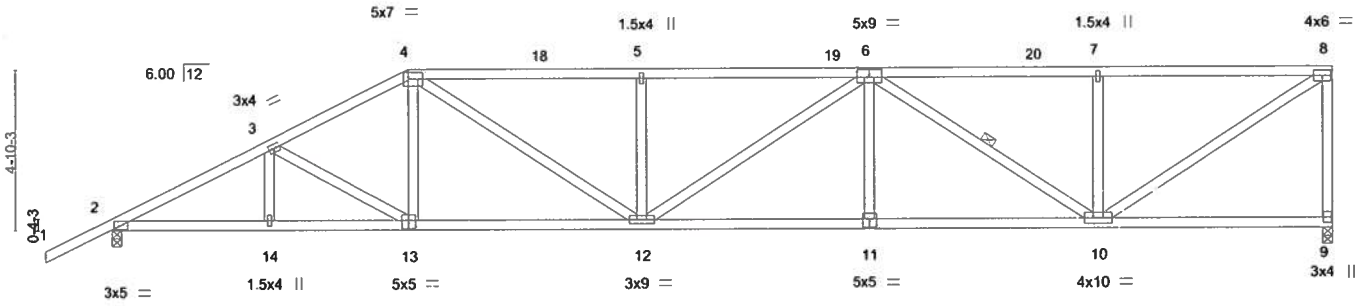
Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759545
Lot_24	A19	Half Hip	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:17 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-gsuUv?aSxbNMj4CxhJ7LI3YqwOx95uQ__I6tsWzY7Yi

-2-0-0	4-9-4	9-0-0	16-1-0	23-0-4	29-11-8	37-0-8
2-0-0	4-9-4	4-2-12	7-1-0	6-11-4	6-11-4	7-1-0

Scale = 1:65.7



4-9-4	9-0-0	16-1-0	23-0-4	29-11-8	37-0-8
4-9-4	4-2-12	7-1-0	6-11-4	6-11-4	7-1-0

Plate Offsets (X,Y)-- [4:0-5-4,0-2-8], [6:0-4-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.22	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.46	11-12	>970	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 204 lb	FT = 0%

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

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

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=150(LC 11)
Max Uplift 2=-49(LC 12)
Max Grav 9=1473(LC 1), 2=1599(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2852/557, 3-4=-2544/544, 4-5=-2997/669, 5-6=-2997/669, 6-7=-1894/443, 7-8=-1894/443, 8-9=-1405/338
BOT CHORD 2-14=-697/2497, 13-14=-697/2497, 12-13=-584/2229, 11-12=-650/2856, 10-11=-650/2856
WEBS 3-13=-319/131, 4-13=0/366, 4-12=-172/997, 5-12=-450/205, 6-11=0/270, 6-10=-1151/258, 7-10=-445/210, 8-10=-467/2219

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

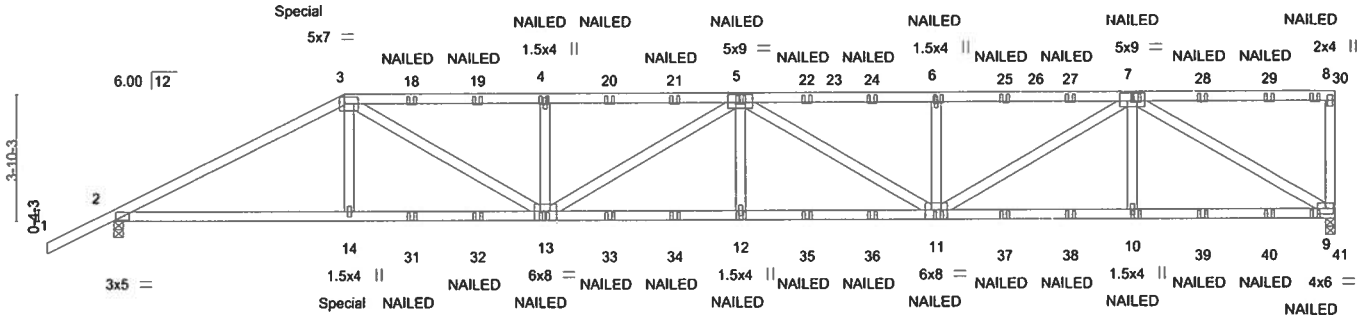
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759546
Lot_24	A20GIR	Half Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066. 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:36 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-cWYguVpNSRmfV_9bJozo14r0U2QS2OxnMCCN1vzY7YP

-2-0-0	7-0-0	13-1-2	19-0-9	24-11-15	30-11-6	37-0-8
2-0-0	7-0-0	6-1-2	5-11-6	5-11-6	5-11-6	6-1-2

Scale = 1:65.7



7-0-0	13-1-2	19-0-9	24-11-15	30-11-6	37-0-8
7-0-0	6-1-2	5-11-6	5-11-6	5-11-6	6-1-2

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

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	0.85	Vert(LL)	-0.31	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.64	12-13	>695	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 385 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except* 11-13: 2x4 SP No.1
WEBS 2x4 SP No.2

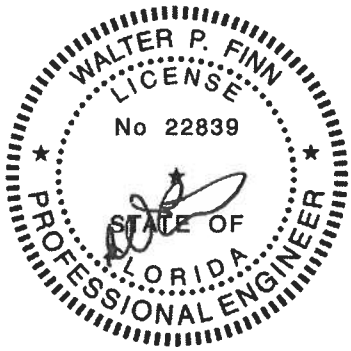
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8
Max Horz 2=120(LC 24)
Max Uplift 9=-15(LC 8), 2=-18(LC 8)
Max Grav 9=3280(LC 1), 2=3039(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5935/0, 3-4=-7727/7, 4-5=-7727/7, 5-6=-7312/50, 6-7=-7312/50, 8-9=-396/88
BOT CHORD 2-14=0/5224, 13-14=0/5246, 12-13=0/8359, 11-12=0/8359, 10-11=-4/4605, 9-10=-4/4605
WEBS 3-14=0/671, 3-13=-66/2937, 4-13=-784/173, 5-13=-758/32, 5-12=0/485, 5-11=-1221/0, 6-11=-703/157, 7-11=0/3153, 7-10=0/525, 7-9=-5282/18

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 228 lb down and 136 lb up at 7-0-0 on top chord, and 342 lb down at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: March 23,2020

Continued on page 2

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

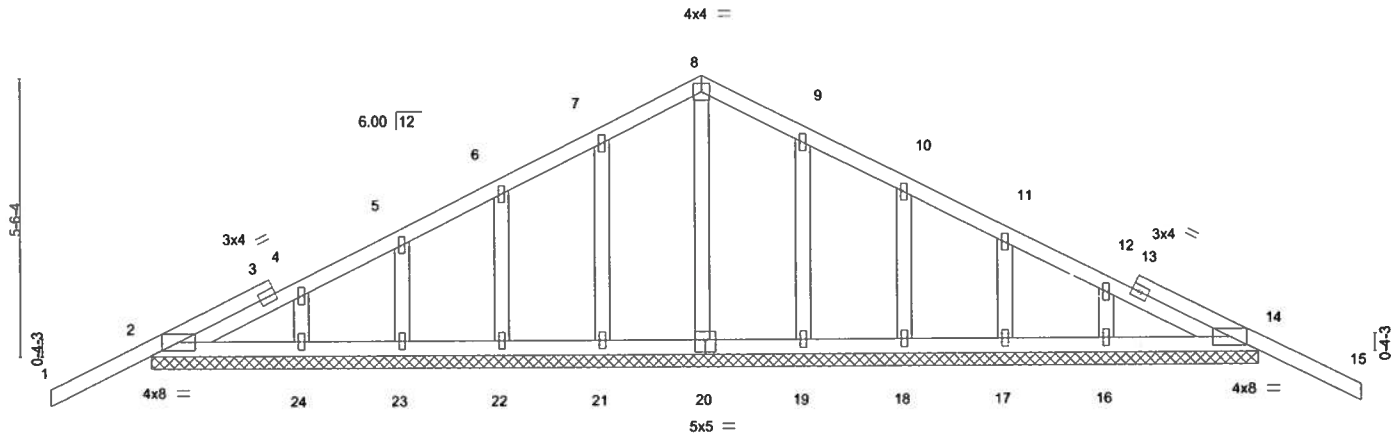
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-60, 3-8=-60, 9-15=-20
   Concentrated Loads (lb)
   Vert: 3=-181(B) 14=-342(B) 13=-59(B) 4=-121(B) 5=-121(B) 12=-59(B) 11=-59(B) 6=-121(B) 7=-121(B) 10=-59(B) 18=-121(B) 19=-121(B) 20=-121(B) 21=-121(B) 22=-121(B) 24=-121(B) 25=-121(B) 27=-121(B) 28=-121(B) 29=-121(B) 30=-138(B) 31=-59(B) 32=-59(B) 33=-59(B) 34=-59(B) 35=-59(B) 36=-59(B) 37=-59(B) 38=-59(B) 39=-59(B) 40=-59(B) 41=-64(B)

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759547
Lot_24	B1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:46 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-KS8S?vxe6V1EiXwWuv98QBFsE40gO8SGfmdvNKzY7YF

-2-0-0 2-0-0 | 11-0-0 11-0-0 | 22-0-0 11-0-0 | 24-0-0 2-0-0

Scale = 1:43.0



22-0-0
22-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [14:0-4-0,0-2-1], [20:0-2-8,0-3-0]

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	0.26	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 119 lb	FT = 0%

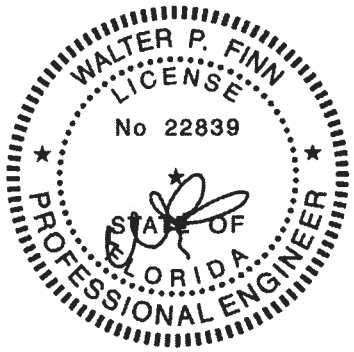
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=102(LC 11)
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) 20, 21, 22, 23, 24, 19, 18, 17, 16 except 2=274(LC 1), 14=274(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 23, 19, 18, 17.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

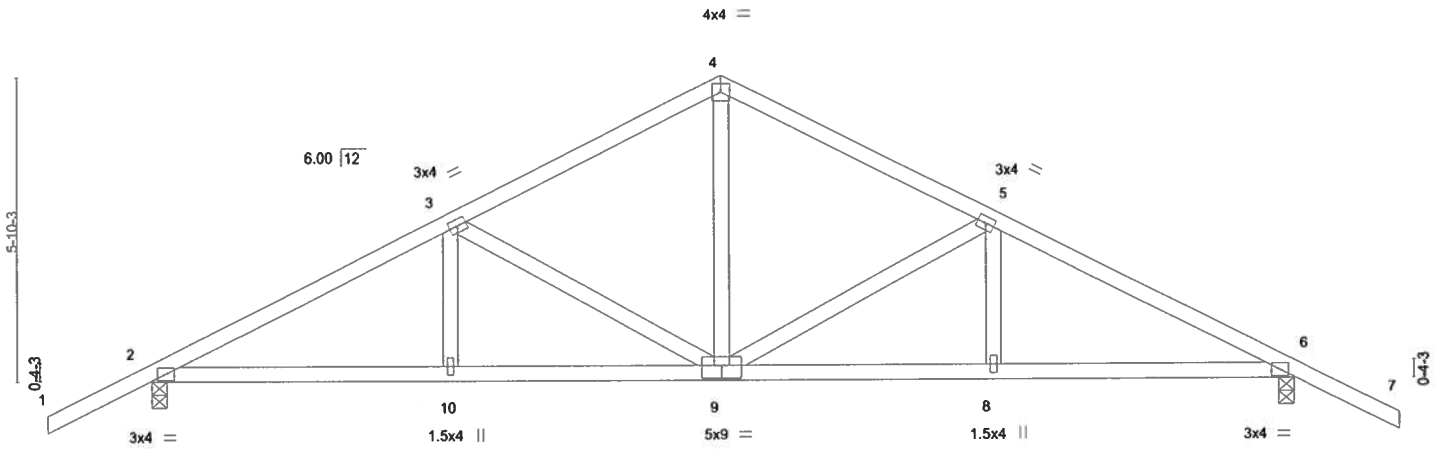
Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759548
Lot_24	B2	Common	9	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:47 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-oeiqCFxGtp95KhViScgNzOo1rUGk7XdPuQNTwnzY7YE

-2-0-0	5-9-4	11-0-0	16-2-12	22-0-0	24-0-0
2-0-0	5-9-4	5-2-12	5-2-12	5-9-4	2-0-0

Scale = 1:41.7



5-9-4	11-0-0	16-2-12	22-0-0
5-9-4	5-2-12	5-2-12	5-9-4

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

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	0.27	Vert(LL)	-0.05	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 109 lb	FT = 0%

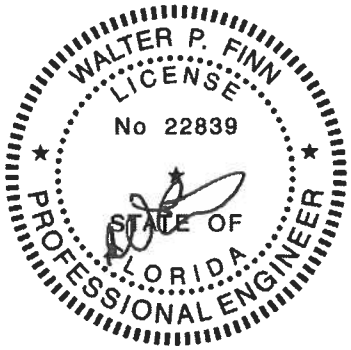
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=107(LC 11)
Max Uplift 2=-49(LC 12), 6=-49(LC 12)
Max Grav 2=1000(LC 1), 6=1000(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1523/348, 3-4=-1055/302, 4-5=-1055/302, 5-6=-1523/348
BOT CHORD 2-10=-178/1305, 9-10=-178/1305, 8-9=-196/1305, 6-8=-196/1305
WEBS 4-9=-105/583, 5-9=-503/180, 3-9=-503/180

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

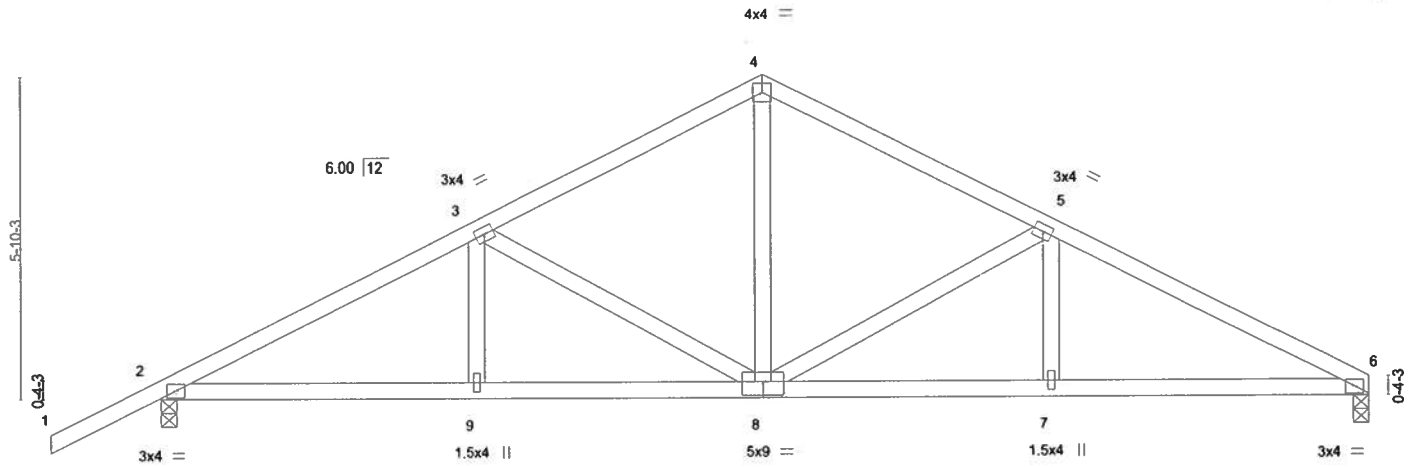
Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759549
Lot_24	B3	Common	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:47 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-oeiqCFxGtp95KhViScgNzOo1MUFk7WHPuQNTwnzY7YE

-2-0-0	5-9-4	11-0-0	16-2-12	22-0-0
2-0-0	5-9-4	5-2-12	5-2-12	5-9-4

Scale = 1:39.5



5-9-4	11-0-0	16-2-12	22-0-0
5-9-4	5-2-12	5-2-12	5-9-4

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

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	0.30	Vert(LL)	-0.05	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.11	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 106 lb	FT = 0%

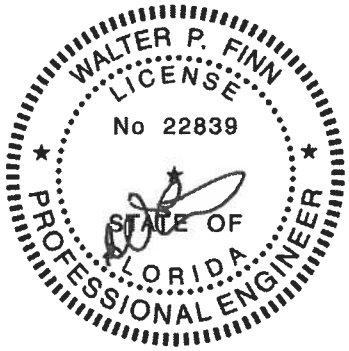
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 6=0-3-8, 2=0-3-8
Max Horz 2=104(LC 11)
Max Uplift 2=-52(LC 12)
Max Grav 6=875(LC 1), 2=1005(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1535/363, 3-4=-1066/315, 4-5=-1068/316, 5-6=-1549/378
BOT CHORD 2-9=-247/1317, 8-9=-247/1317, 7-8=-263/1346, 6-7=-263/1346
WEBS 4-8=-122/597, 5-8=-539/201, 3-8=-504/182

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



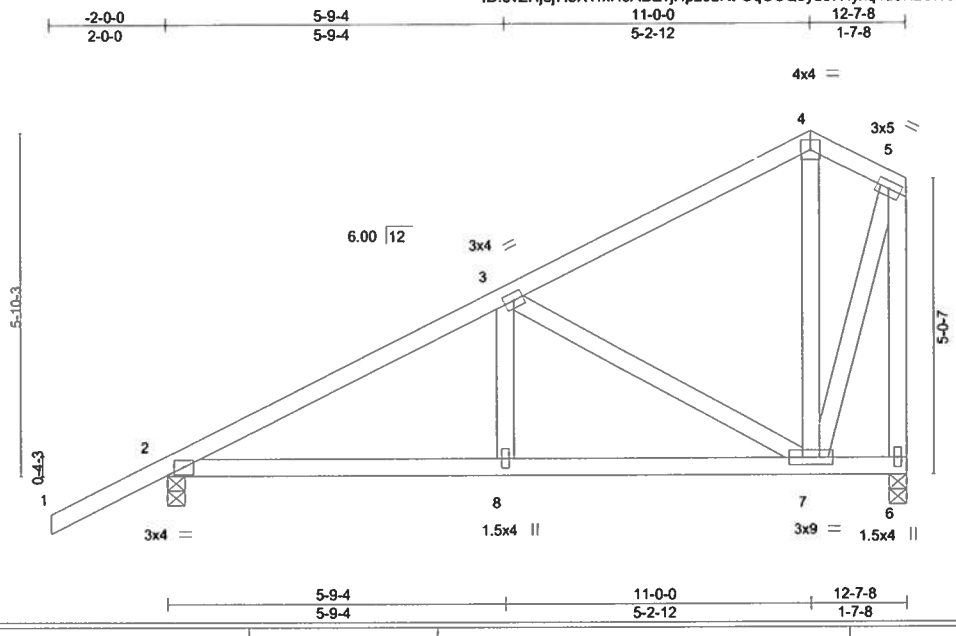
Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759550
Lot_24	B4	Common	2	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:48 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-GqGCQbyue7Hyxq4u0KBcWcKCRtdBsziY7460SDzY7YD



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.02	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 77 lb	FT = 0%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=170(LC 11)
Max Uplift 2=-50(LC 12)
Max Grav 2=629(LC 1), 6=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-715/169, 5-6=-485/169
BOT CHORD 2-8=-306/586, 7-8=-306/586
WEBS 3-7=-521/224, 5-7=-193/436

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

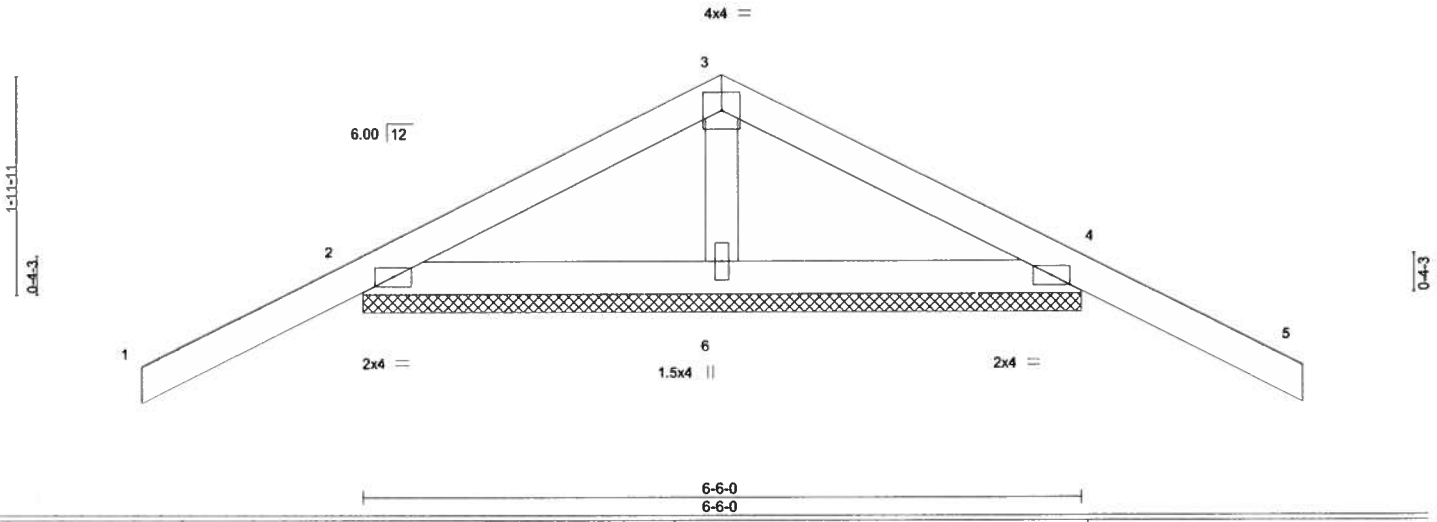
Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759551
Lot_24	C1GE	Common Supported Gable	1	1	Job Reference (optional)	

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

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:49 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-k0qbdxzXOQPpZ_f4Z1ir2ptNUH0bbUkiLjsZ_fzY7YC

-2-0-0 | 3-3-0 | 6-6-0 | 8-6-0
2-0-0 | 3-3-0 | 3-3-0 | 2-0-0

Scale = 1:19.6



6-6-0
6-6-0

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	0.26	Vert(LL)	-0.03	5	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.04	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 30 lb	FT = 0%

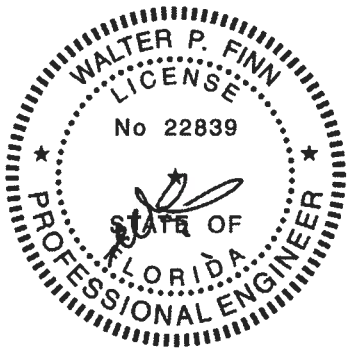
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

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=6-6-0, 4=6-6-0, 6=6-6-0
Max Horz 2=-43(LC 10)
Max Uplift 2=-83(LC 12), 4=-83(LC 12)
Max Grav 2=281(LC 1), 4=281(LC 1), 6=202(LC 3)

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 7-10; 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 Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 4.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759552
Lot_24	C2GIR	COMMON GIRDER	1	3	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:50 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-CDOzqH_99kXgB8EH7ID4b1QadhF7KtNraNb7W5zY7YB

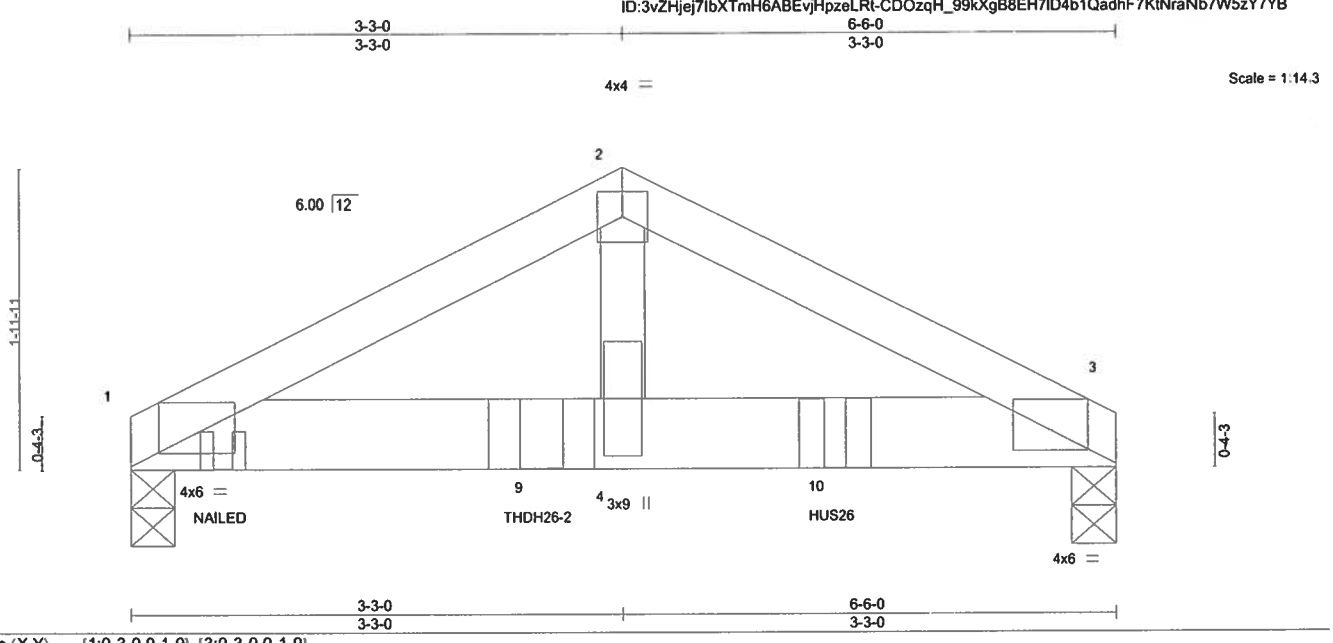


Plate Offsets (X,Y)— [1:0-3-0,0-1-9], [3:0-3-0,0-1-9]

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	0.17	Vert(LL)	-0.02	4-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.04	4-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 85 lb	FT = 0%

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

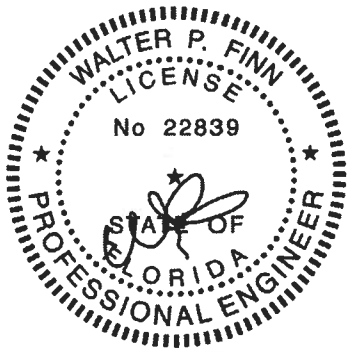
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=27(LC 24)
Max Grav 1=2700(LC 1), 3=2710(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-4884/0, 2-3=-4884/0
BOT CHORD 1-4=0/4368, 3-4=0/4368
WEBS 2-4=0/4093

NOTES-
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) 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) Use THDH26-2 (With 22-16d nails into Girder & 4-16d nails into Truss) or equivalent at 2-8-8 from the left end to connect truss(es) to back face of bottom chord.
8) Use HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent at 4-7-12 from the left end to connect truss(es) to back face of bottom chord.
9) Fill all nail holes where hanger is in contact with lumber.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-20



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Continued on page 2

6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 6=-181(B) 9=-3151(B) 10=-1557(B)

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759553
Lot_24	CJ1	Diagonal Hip Girder	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:51 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-gPyL2d_nw2fXolpThSkJ7EyeP5aL3LW?p1Lg3YzY7YA

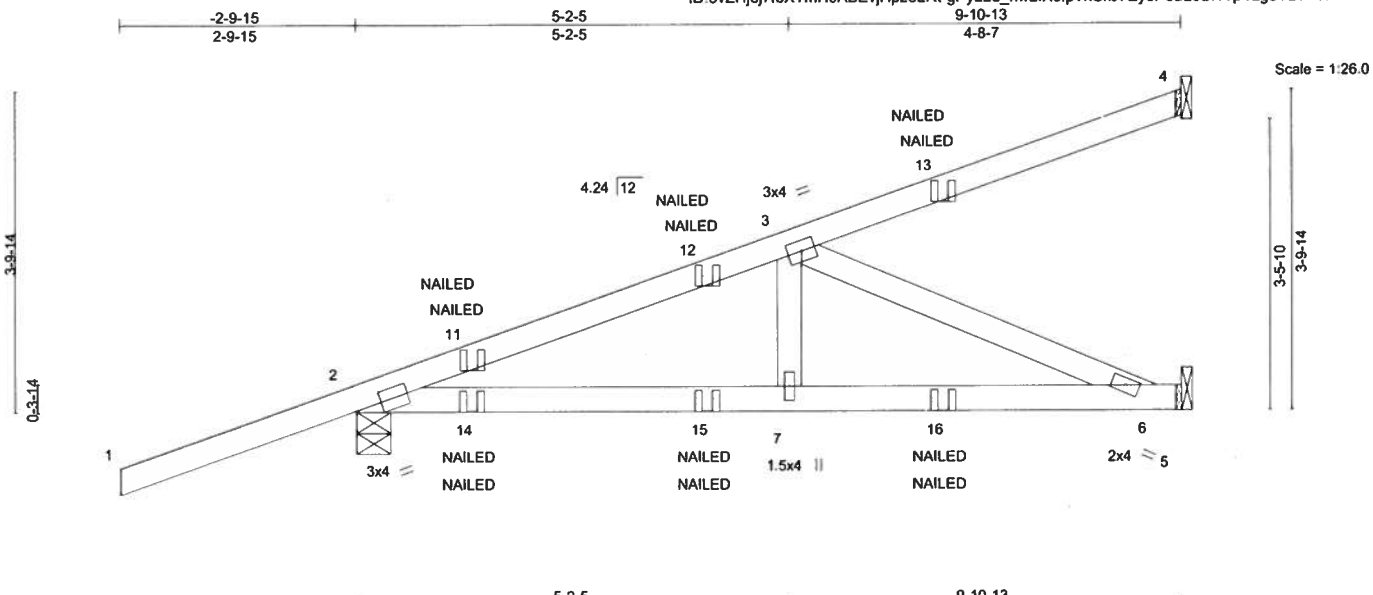


Plate Offsets (X,Y)— [2:0-3-12,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.06	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.09	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 44 lb	FT = 0%

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

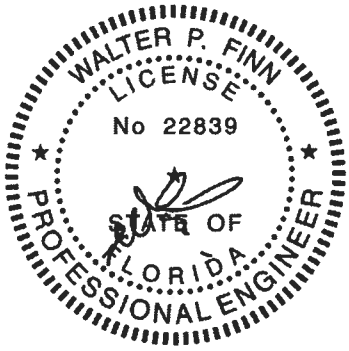
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=120(LC 24)
Max Uplift 4=-34(LC 8), 2=-154(LC 8)
Max Grav 4=145(LC 1), 2=552(LC 28), 5=317(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-752/6
BOT CHORD 2-7=-49/661, 6-7=-49/661
WEBS 3-7=0/255, 3-6=-718/53

NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=154.
6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=72(F=36, B=36) 12=-0(F) 13=-84(F=-48, B=-36) 14=82(F=41, B=41) 15=-11(F=-13, B=2) 16=-61(F=-36, B=-24)



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

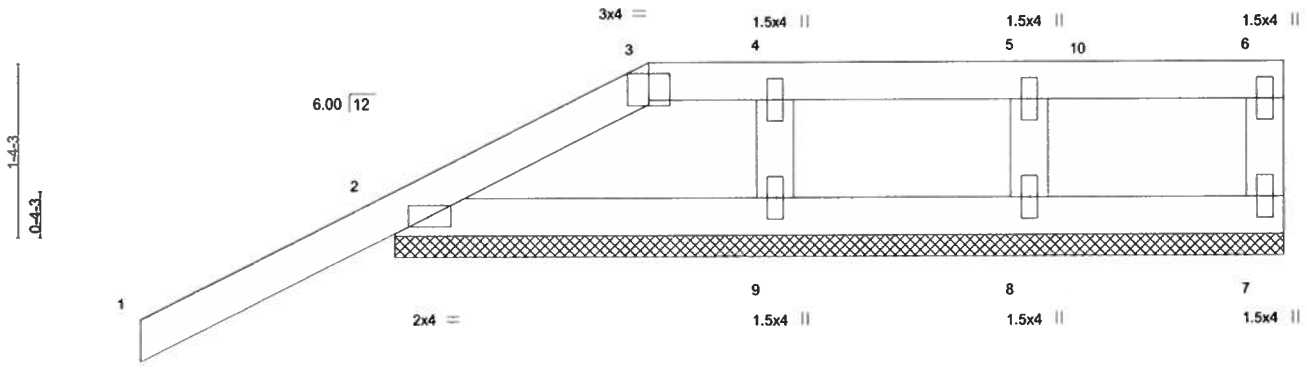
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759554
Lot_24	D1GE	Half Hip Supported	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:52 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-8bWjFz?PhLnOQSOfF9FYgSVujV2worO82h4Eb_zY7Y9

-2-0-0 2-0-0 7-0-0
2-0-0 2-0-0 5-0-0

Scale = 1:17.0



7-0-0
7-0-0

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

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	0.26	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 28 lb	FT = 0%

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. All bearings 7-0-0.
(lb) - Max Horz 2=44(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9
Max Grav All reactions 250 lb or less at joint(s) 7, 8, 9 except 2=274(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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 Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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) Provide adequate drainage to prevent water ponding.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759555
Lot_24	D2	Half Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:52 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-8bWjFz?PhLnOQSOfF9FYgSVvsV1rorr82h4Eb_zY7Y9

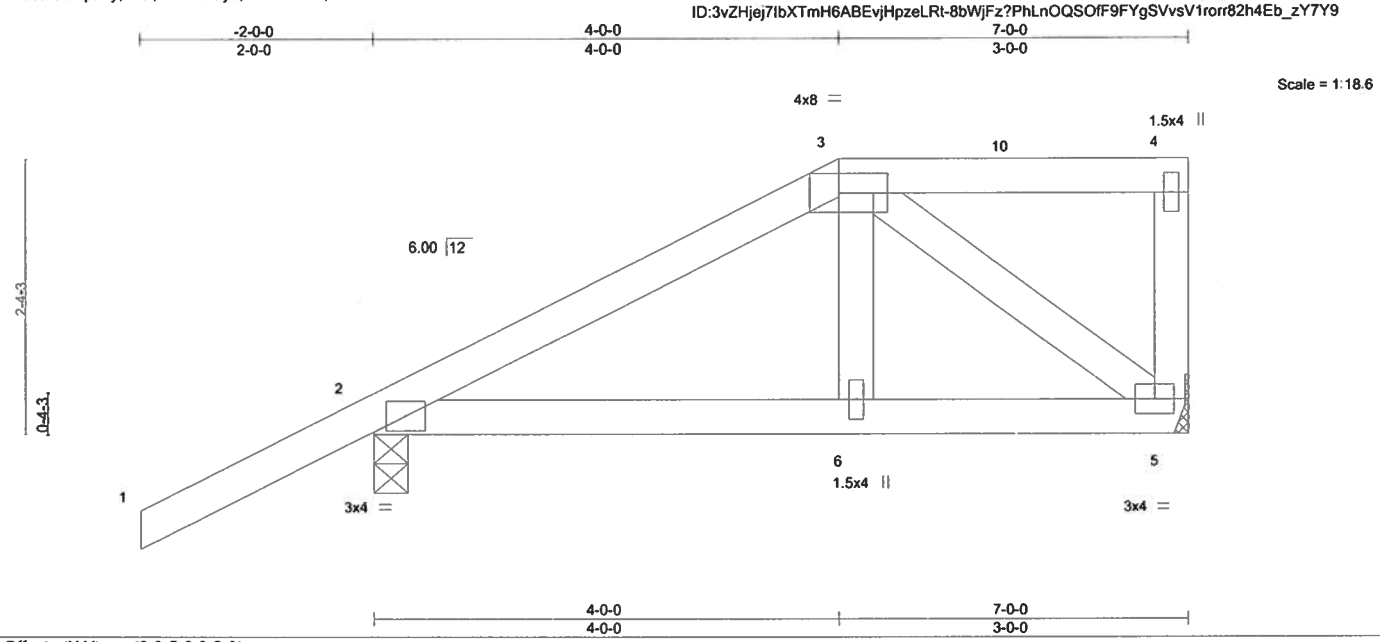


Plate Offsets (X,Y)— [3:0-5-0,0-2-0]

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	0.25	Vert(LL)	-0.01	6-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 35 lb	FT = 0%

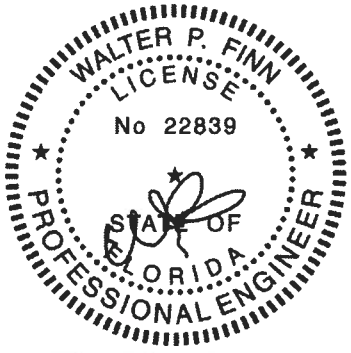
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=75(LC 11)
Max Uplift 2=-58(LC 12), 5=-5(LC 9)
Max Grav 2=412(LC 1), 5=257(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-286/76
WEBS 3-5=-263/118

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759556
Lot_24	D3	Half Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:53 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-do35TJ01SfvF2cysotnnDf2zZuKBXIQIGLqn7QzY7Y8

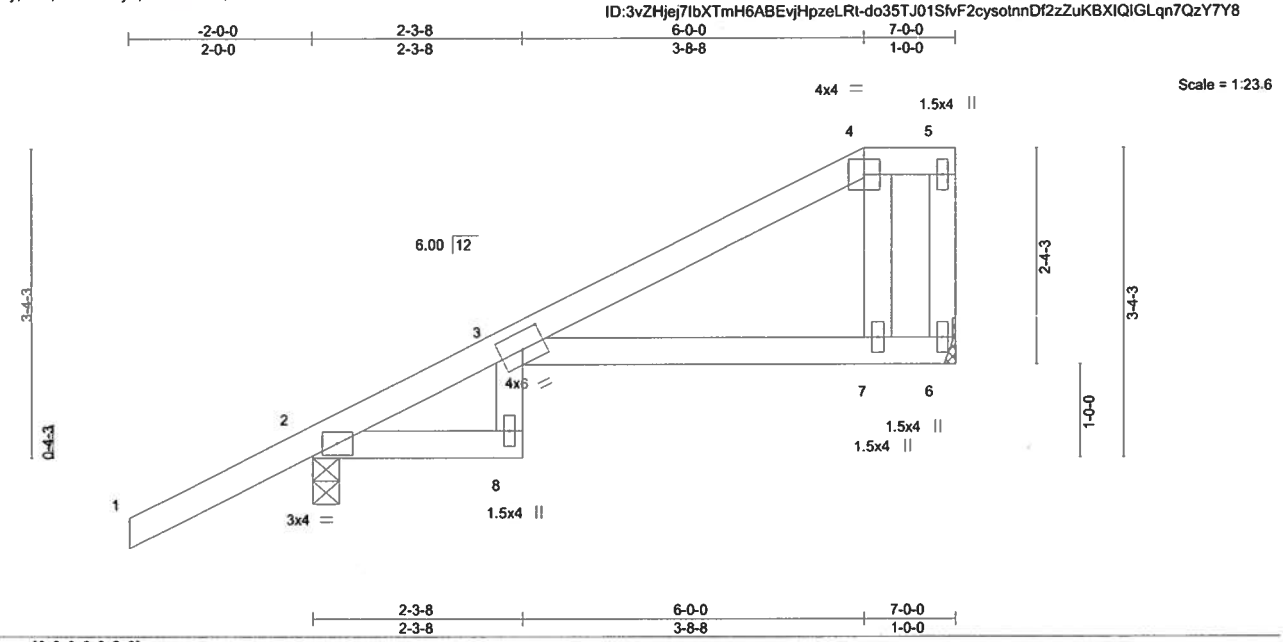


Plate Offsets (X,Y)-- [3:0-3-0,0-2-3]

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	0.70	Vert(LL)	0.18	8	>470	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.27	8	>307	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.14	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 32 lb	FT = 0%

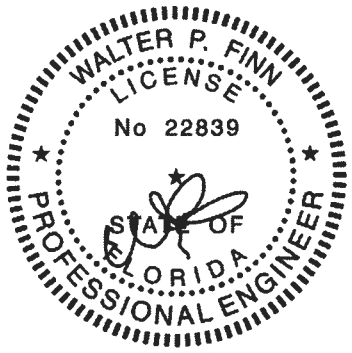
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. (size) 6=Mechanical, 2=0-3-8
Max Horz 2=92(LC 9)
Max Uplift 6=-3(LC 9), 2=-54(LC 12)
Max Grav 6=257(LC 1), 2=412(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759557
Lot_24	J1	Jack-Open	24	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:54 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-5_dUge1fDz16flX2MaI0ltaAOldkGlARV?ZKftzY7Y7

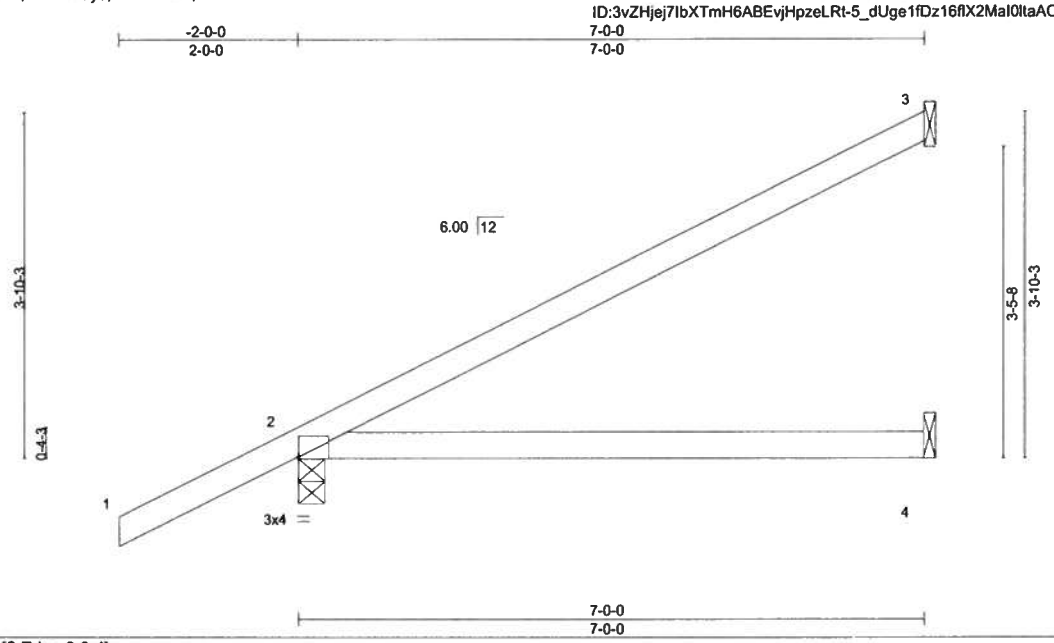


Plate Offsets (X,Y)-- [2:Edge,0-0-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.57	Vert(LL)	-0.09	4-7	>969	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.20	4-7	>408	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 26 lb	FT = 0%

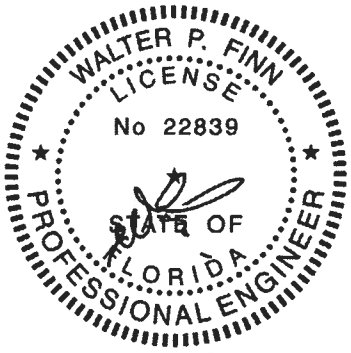
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=120(LC 12)
Max Uplift 3=-42(LC 12), 2=-37(LC 12)
Max Grav 3=181(LC 1), 2=415(LC 1), 4=123(LC 3)

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

NOTES-
1) Wind: ASCE 7-10; 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(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759558
Lot_24	J1A	Jack-Open	7	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:54 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-5_dUge1fDz16flX2Mal0lta8DlcDGlARV?ZKftzY7Y7

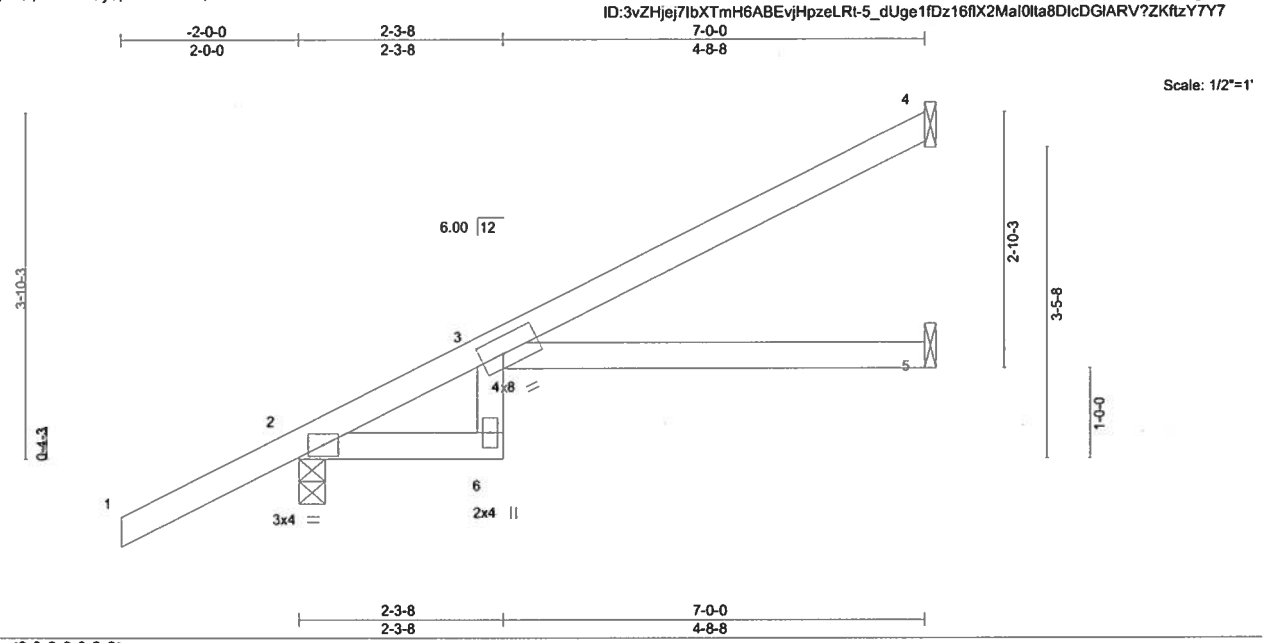


Plate Offsets (X,Y)-- [3:0-3-0,0-2-3]

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	0.64	Vert(LL)	0.14	3-5	>595	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.24	3-5	>343	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 27 lb	FT = 0%

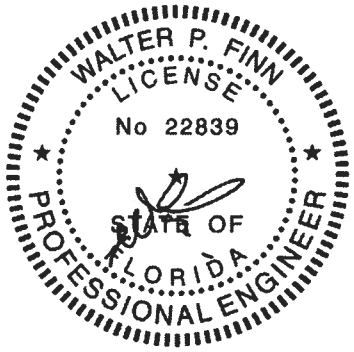
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=120(LC 12)
Max Uplift 4=-33(LC 12), 2=-37(LC 12)
Max Grav 4=168(LC 1), 2=415(LC 1), 5=118(LC 3)

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

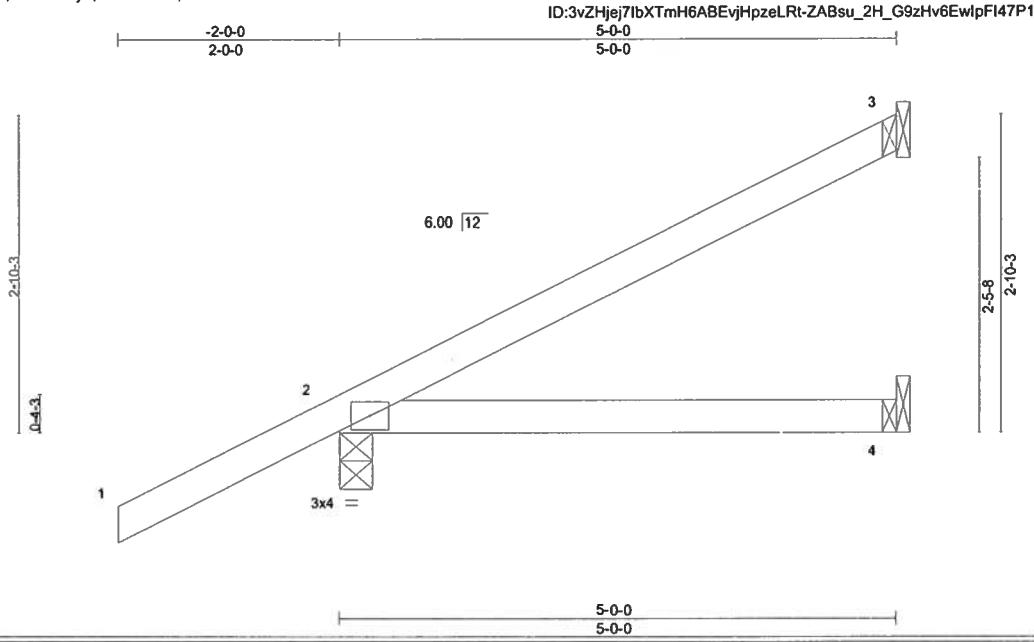
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759559
Lot_24	J2	Jack-Open	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:55 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-ZABsu_2H_G9zHv6EwlpFI47P1i16?CQakfJuCJzY7Y6



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	0.26	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 19 lb	FT = 0%

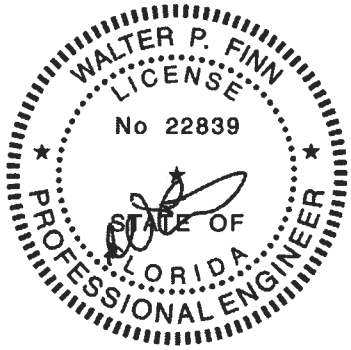
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=96(LC 12)
Max Uplift 3=-26(LC 12), 2=-47(LC 12)
Max Grav 3=121(LC 1), 2=342(LC 1), 4=86(LC 3)

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

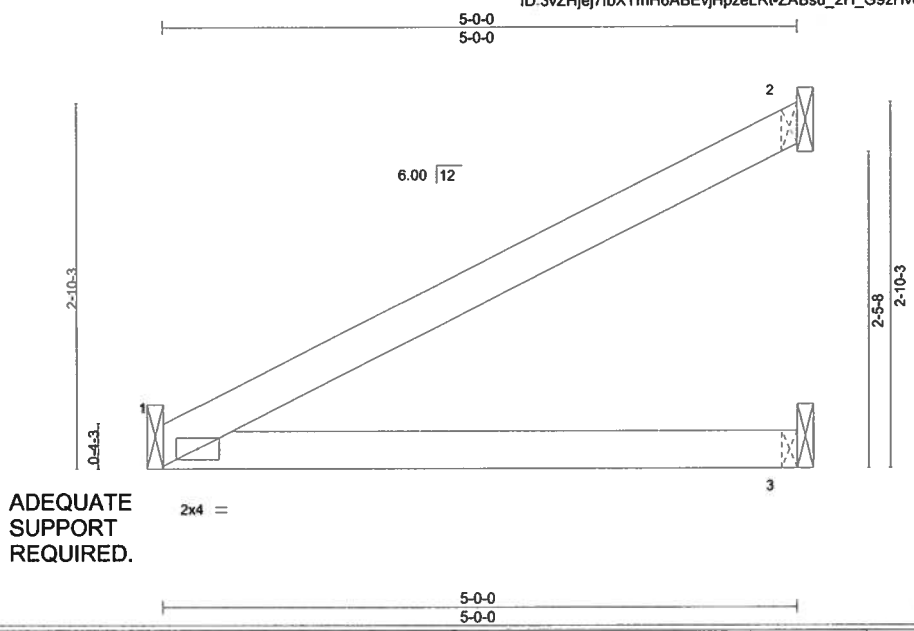
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759560
Lot_24	J2A	Jack-Open	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:55 2020 Page 1
ID:3vZHjej7lbXTmH6ABEvjHpzeLRt-ZABsu_2H_G9zHv6EwlpFl47PAi1g?CQakfJuCJzY7Y6



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	0.31	Vert(LL)	-0.03	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.06	3-6	>968	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 16 lb	FT = 0%

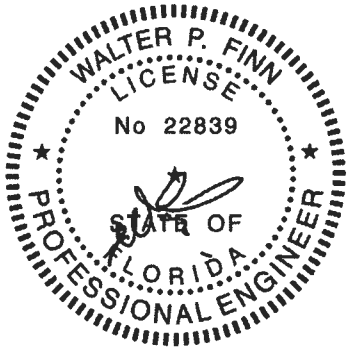
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=59(LC 12)
Max Uplift 2=-33(LC 12)
Max Grav 1=198(LC 1), 2=133(LC 1), 3=90(LC 3)

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

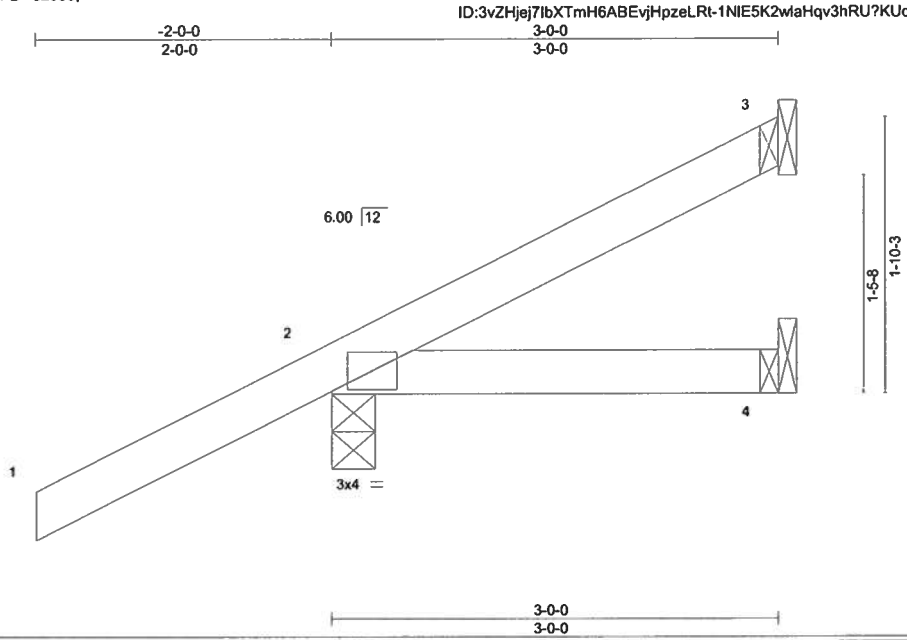
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759561
Lot_24	J3	Jack-Open	3	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:56 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-1NIE5K2wIaHqv3hRU?KUqIgah6QxkfgkyJ2RkIzY7Y5



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	0.26	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 13 lb	FT = 0%

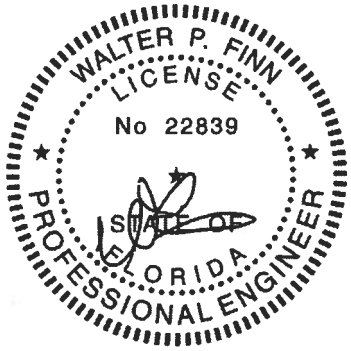
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=72(LC 12)
Max Uplift 3=-8(LC 12), 2=-63(LC 12)
Max Grav 3=57(LC 1), 2=278(LC 1), 4=47(LC 3)

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

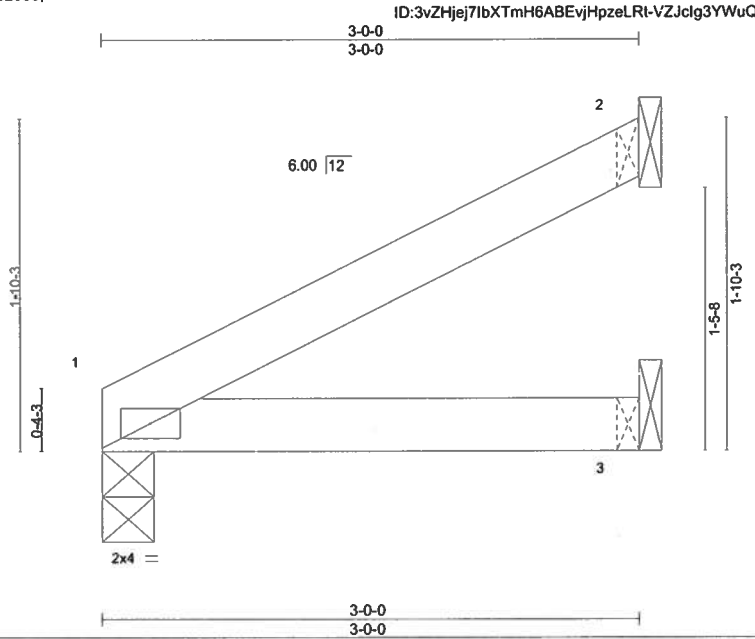
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759562
Lot_24	J3A	Jack-Open	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:57 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-VZJcIg3YWuQhWDGd1jrjNVCowWldT6wtBzo_GBzY7Y4



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	0.10	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 10 lb	FT = 0%

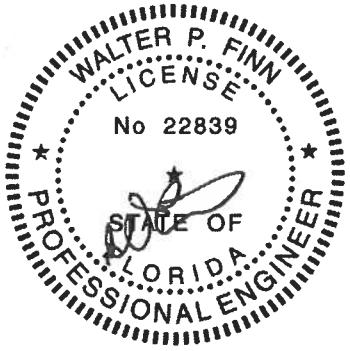
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=35(LC 12)
Max Uplift 2=-18(LC 12)
Max Grav 1=118(LC 1), 2=76(LC 1), 3=54(LC 3)

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

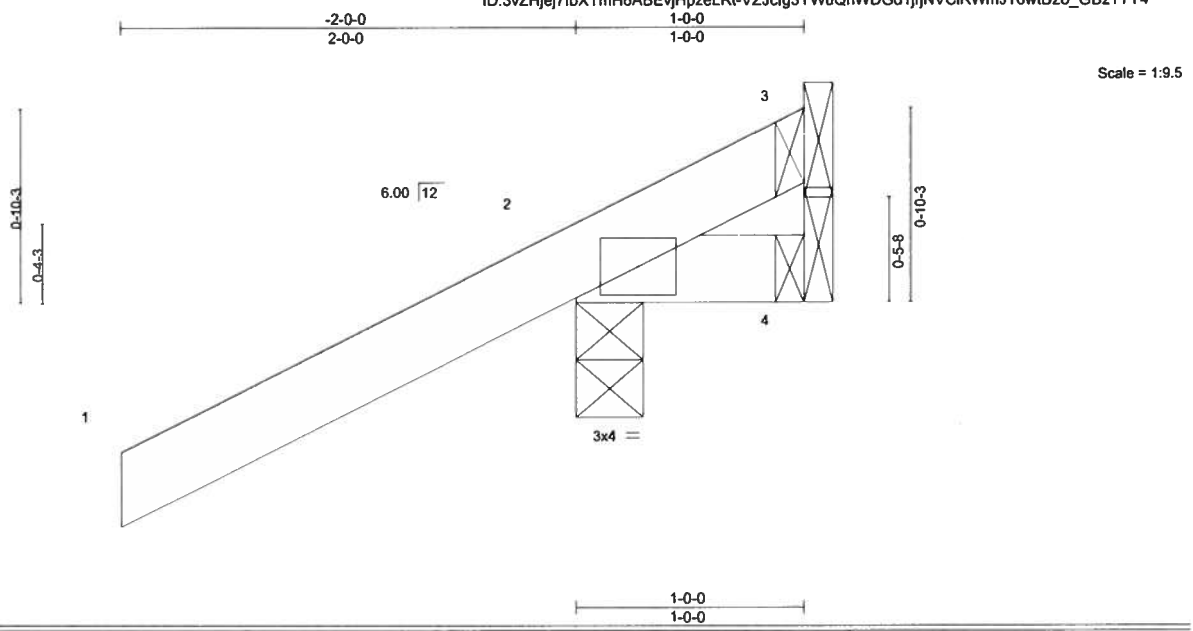
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 24 Thornwood	T19759563
Lot_24	J4	Jack-Open	4	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 23 07:00:57 2020 Page 1
ID:3vZHjej7IbXTmH6ABEvjHpzeLRt-VZJclg3YWuQhWUGd1jnNVCIRWmJT6wtBzo_GBzY7Y4



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	0.26	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 7 lb	FT = 0%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=-29(LC 1), 2=-113(LC 12), 4=-53(LC 1)
Max Grav 3=24(LC 12), 2=281(LC 1), 4=39(LC 12)

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

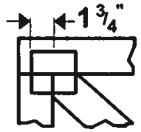
NOTES-
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
3) * 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.
4) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=113.

Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
March 23,2020

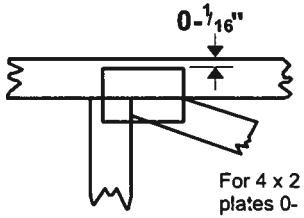
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

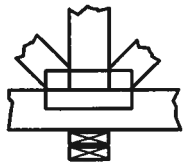
4 x 4

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

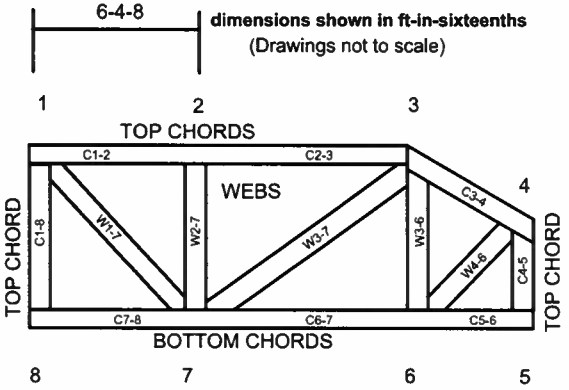


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

MiTek®

MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.