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

RE: thornwood_25 - Thornwood 25

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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 45 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	T22308697	A1GIR	12/30/20	23	T22308719	C2	12/30/20
2	T22308698	A2	12/30/20	24	T22308720	C3	12/30/20
3	T22308699	A3	12/30/20	25	T22308721	C4	12/30/20
4	T22308700	A4	12/30/20	26	T22308722	C5	12/30/20
5	T22308701	A5	12/30/20	27	T22308723	CJ1	12/30/20
6	T22308702	A6	12/30/20	28	T22308724	CJ2	12/30/20
7	T22308703	A7	12/30/20	29	T22308725	CJ3	12/30/20
8	T22308704	A8	12/30/20	30	T22308726	D1GE	12/30/20
9	T22308705	A9	12/30/20	31	T22308727	D2	12/30/20
10	T22308706	A10	12/30/20	32	T22308728	D3	12/30/20
11	T22308707	A11	12/30/20	33	T22308729	D4	12/30/20
12	T22308708	A12	12/30/20	34	T22308730	GIR2	12/30/20
13	T22308709	A13	12/30/20	35	T22308731	J1	12/30/20
14	T22308710	A14	12/30/20	36	T22308732	J1A	12/30/20
15	T22308711	A15	12/30/20	37	T22308733	J1B	12/30/20
16	T22308712	A16GE	12/30/20	38	T22308734	J2A	12/30/20
17	T22308713	B1GIR	12/30/20	39	T22308735	J2B	12/30/20
18	T22308714	B2	12/30/20	40	T22308736	J2C	12/30/20
19	T22308715	B3	12/30/20	41	T22308737	J3	12/30/20
20	T22308716	B5	12/30/20	42	T22308738	J3A	12/30/20
21	T22308717	B6	12/30/20	43	T22308739	J3B	12/30/20
22	T22308718	C1GIR	12/30/20	44	T22308740	J4	12/30/20

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

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 30,2020

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.

RE: thornwood_25 - Thornwood 25

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

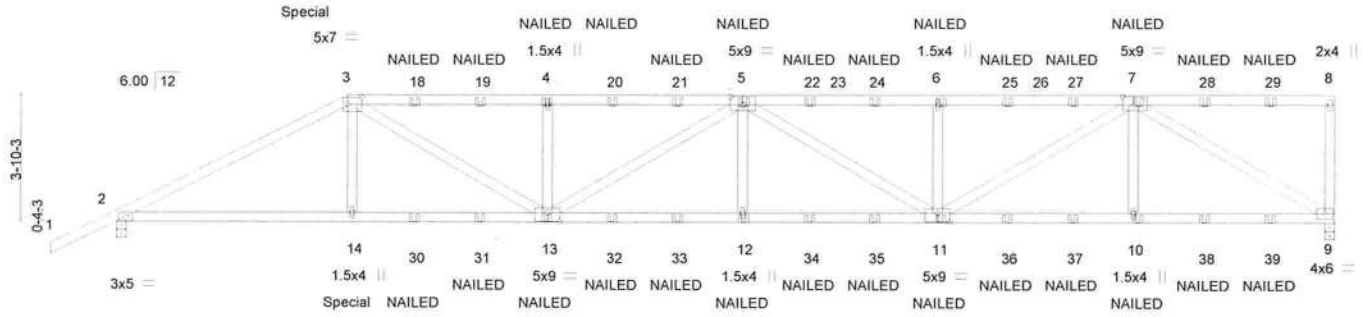
No.	Seal#	Truss Name	Date
45	T22308741	J4C	12/30/20

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308697
THORNWOOD_25	A1GIR	Half Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:41 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-pXpLzKht?wefOXZ5ZIlYD1EwxHZ3zXOhlitz8Wy3q?0

-2-0-0	7-0-0	13-1-1	19-0-6	24-11-10	30-10-15	37-0-0
2-0-0	7-0-0	6-1-1	5-11-5	5-11-5	5-11-5	6-1-1

Scale = 1:65.7



7-0-0	13-1-1	19-0-6	24-11-10	30-10-15	37-0-0
7-0-0	6-1-1	5-11-5	5-11-5	5-11-5	6-1-1

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

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	0.84	Vert(LL)	-0.31	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.63	12-13	>700	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 385 lb	FT = 20%

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 3-9-1 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 7)
Max Uplift 9=-12(LC 8), 2=-19(LC 8)
Max Grav 9=3076(LC 1), 2=3014(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5880/0, 3-4=-7673/8, 4-5=-7673/8, 5-6=-7264/50, 6-7=-7264/50, 8-9=-270/57
BOT CHORD 2-14=0/5174, 13-14=0/5196, 12-13=0/8305, 11-12=0/8305, 10-11=-4/4560, 9-10=-4/4560
WEBS 3-14=0/665, 3-13=-66/2934, 4-13=-784/172, 5-13=-758/32, 5-12=0/483, 5-11=-1214/0, 6-11=-706/157, 7-11=0/3150, 7-10=0/517, 7-9=-5242/19

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) 224 lb down and 134 lb up at 7-0-0 on top chord, and 321 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

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: December 30,2020

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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=-177(B) 14=-321(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=-59(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)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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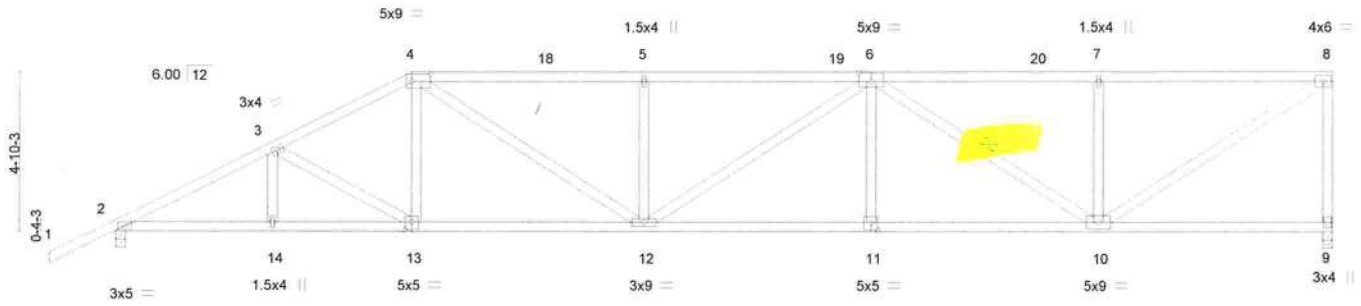
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A2	Half Hip	1	1	T22308698
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:42 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-HjNkAgiVmEmW0h8H7SHnmFm9DgvOi4jqXMdWgyy3q??

-2-0-0	4-9-4	9-0-0	16-0-14	23-0-0	29-11-2	37-0-0
2-0-0	4-9-4	4-2-12	7-0-14	6-11-2	6-11-2	7-0-14

Scale = 1:65.7



4-9-4	9-0-0	16-0-14	23-0-0	29-11-2	37-0-0
4-9-4	4-2-12	7-0-14	6-11-2	6-11-2	7-0-14

Plate Offsets (X,Y)-- [4:0-7-0,0-2-8], [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)	-0.45	11-12	>973	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 = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 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=1471(LC 1), 2=1597(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2849/556, 3-4=-2540/544, 4-5=-2990/668, 5-6=-2990/668, 6-7=-1889/442, 7-8=-1889/442, 8-9=-1403/337
BOT CHORD 2-14=-697/2494, 13-14=-697/2494, 12-13=-583/2226, 11-12=-649/2849, 10-11=-649/2849
WEBS 3-13=-319/131, 4-13=0/366, 4-12=-172/993, 5-12=-449/204, 6-11=0/269, 6-10=-1149/257, 7-10=-445/210, 8-10=-467/2214

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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 30,2020

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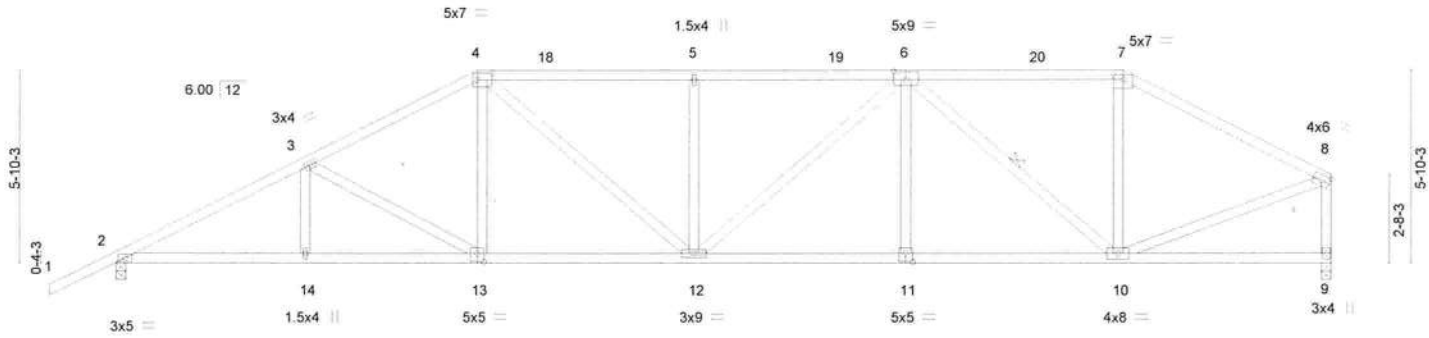
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A3	Hip	1	1	T22308699
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:43 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-lwx6N0j7XYuNdqjThAo0JSJMZ4HjRaXzl0M4CPy3q?_

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

Scale = 1:65.7



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

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)	-0.33	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 = 20%

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

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

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=143(LC 11)
Max Uplift 2=-50(LC 12)
Max Grav 2=1597(LC 1), 9=1471(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2825/595, 3-4=-2384/549, 4-5=-2480/609, 5-6=-2480/609, 6-7=-1424/400, 7-8=-1665/390, 8-9=-1409/343
BOT CHORD 2-14=-596/2467, 13-14=-596/2467, 12-13=-439/2067, 11-12=-461/2258, 10-11=-461/2258
WEBS 3-13=-462/180, 4-13=-17/413, 4-12=-102/647, 5-12=-414/186, 6-12=-67/320, 6-11=0/253, 6-10=-1148/227, 7-10=0/410, 8-10=-258/1438

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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

December 30,2020

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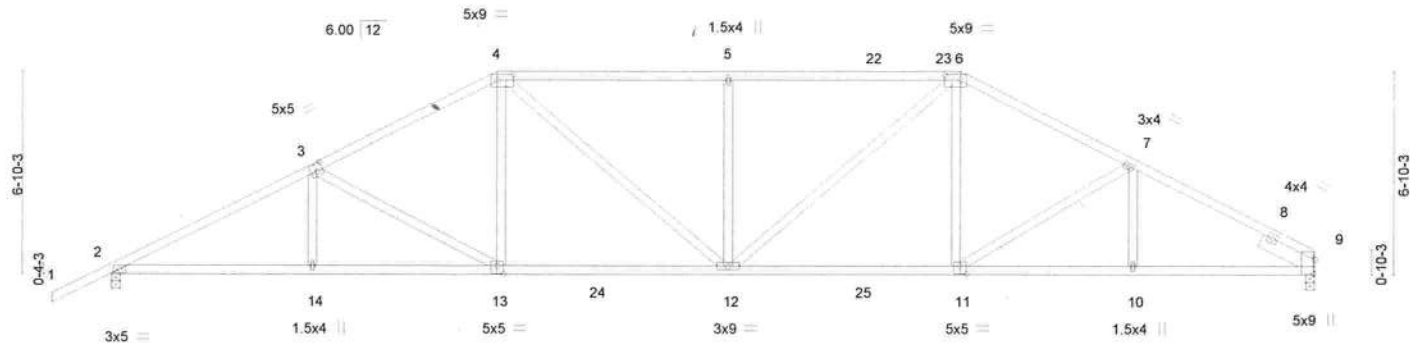
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A4	Hip	1	1	T22308700
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:44 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-D6VUbMkIlr0EF_IfEtJFrgsSSUY8A_I7_g6dkry3q_z

-2-0-0	6-9-4	13-0-0	20-10-0	28-8-0	34-6-4	40-8-0
2-0-0	6-9-4	6-2-12	7-10-0	7-10-0	5-10-4	6-1-12

Scale = 1:72.9



6-9-4	13-0-0	20-10-0	28-8-0	34-6-4	40-8-0
6-9-4	6-2-12	7-10-0	7-10-0	5-10-4	6-1-12

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [4:0-6-8,0-2-4], [6:0-6-8,0-2-4], [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	0.83	Vert(LL)	-0.23	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.91	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 = 20%

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 -t 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=1624(LC 1), 2=1750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3118/683, 3-4=-2570/623, 4-5=-2581/676, 5-6=-2581/676, 6-7=-2442/603, 7-9=-2698/617
BOT CHORD 2-14=-541/2734, 13-14=-542/2731, 12-13=-348/2245, 11-12=-331/2139, 10-11=-461/2320, 9-10=-461/2320
WEBS 3-14=0/252, 3-13=-569/223, 4-13=-25/504, 4-12=-94/604, 5-12=-521/232, 6-12=-114/696, 6-11=-1/379

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.

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Date:

December 30,2020

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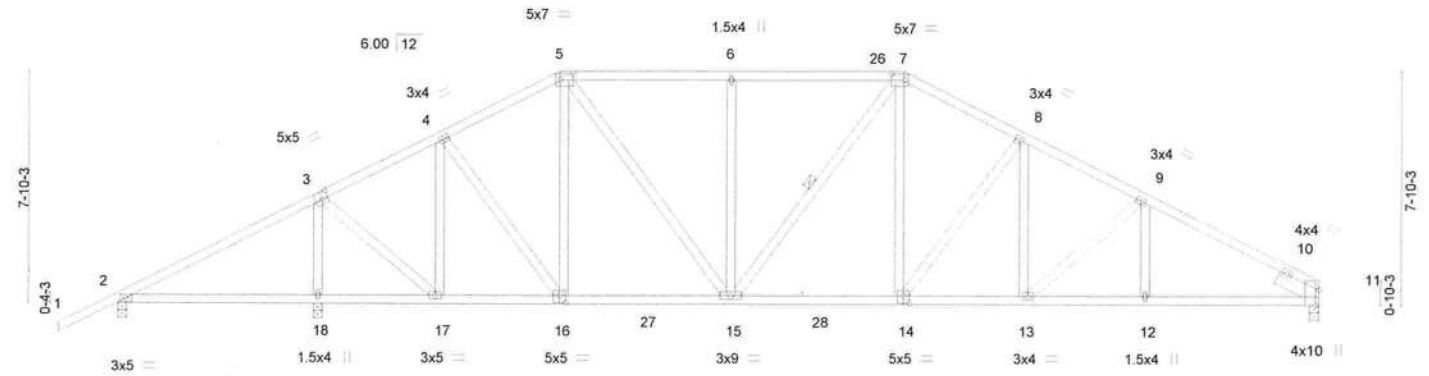
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A5	Hip	1	1	T22308701
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:45 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-hI3sohkN3985t8tsoaqUOtOcqusNvStGDKrBGHy3q_y

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

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	40-8-0
6-9-12	4-1-2	4-1-2	5-10-0	5-10-0	4-1-2	4-1-2	5-9-12

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], [11:0-6-4,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	0.85	Vert(LL)	0.09	18-25	>915	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.98	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 = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -t 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=-123(LC 22), 18=-45(LC 12)
Max Grav 11=1288(LC 1), 2=145(LC 21), 18=2004(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-101/738, 3-4=-673/237, 4-5=-1065/358, 5-6=-1333/443, 6-7=-1333/443, 7-8=-1593/471, 8-9=-1857/495, 9-11=-2061/487
BOT CHORD 2-18=-612/127, 17-18=-573/116, 16-17=-22/579, 15-16=-57/943, 14-15=-155/1366, 13-14=-265/1634, 12-13=-349/1755, 11-12=-349/1755
WEBS 3-18=-1837/451, 3-17=-182/1387, 4-17=-872/201, 4-16=-59/654, 5-16=-409/98, 5-15=-142/746, 6-15=-392/173, 7-14=-87/522, 8-14=-451/184

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=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.

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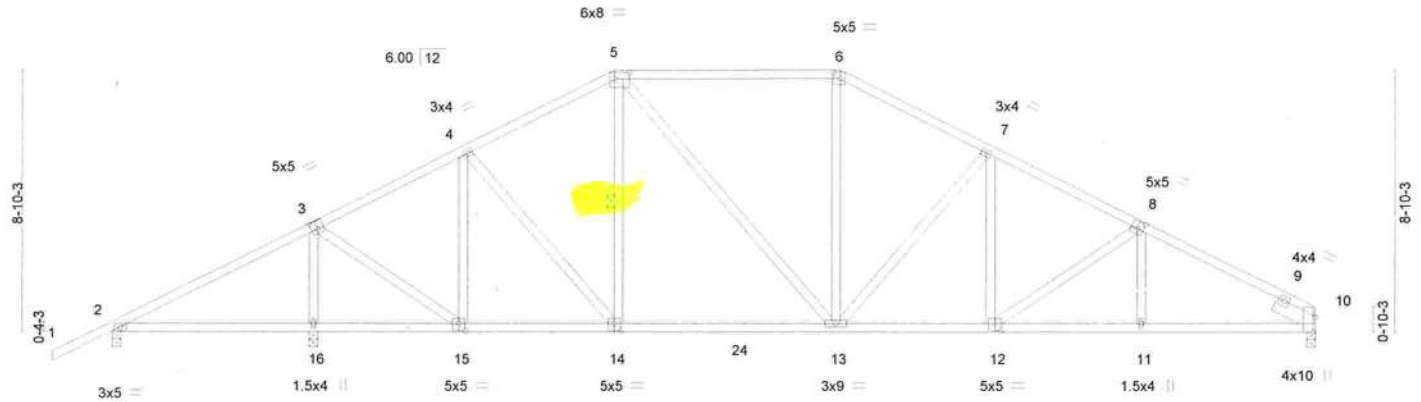
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A6	Hip	1	1	T22308702
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:46 2020 Page 1
ID:mgNl4ycwMnNQtK_f622mWPy8nMy-9VcE01l0qTGyUIS2MILjw5xnRICGetFQRzbkoky3q_x

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

Scale = 1:73.1



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

Plate Offsets (X,Y)-- [3:0-2-8,0-3-4], [5:0-6-0,0-2-8], [6:0-3-0,0-2-8], [8:0-2-8,0-3-0], [10:0-6-4,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	0.86	Vert(LL)	0.09	16-19	>896	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	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 = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -t 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=164(LC 11)
Max Uplift 2=-123(LC 12), 16=-42(LC 12), 10=-1(LC 12)
Max Grav 2=169(LC 21), 16=1990(LC 1), 10=1290(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-95/705, 3-4=-827/277, 4-5=-1160/397, 5-6=-1243/454, 6-7=-1451/460, 7-8=-1821/498, 8-10=-2074/499
BOT CHORD 2-16=-578/120, 15-16=-540/109, 14-15=-54/722, 13-14=-58/1009, 12-13=-255/1585, 11-12=-361/1768, 10-11=-359/1768
WEBS 3-16=-1824/468, 3-15=-194/1418, 4-15=-761/196, 4-14=-7/516, 5-13=-83/472, 6-13=-17/338, 7-13=-528/217, 7-12=-24/300

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.

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December 30,2020

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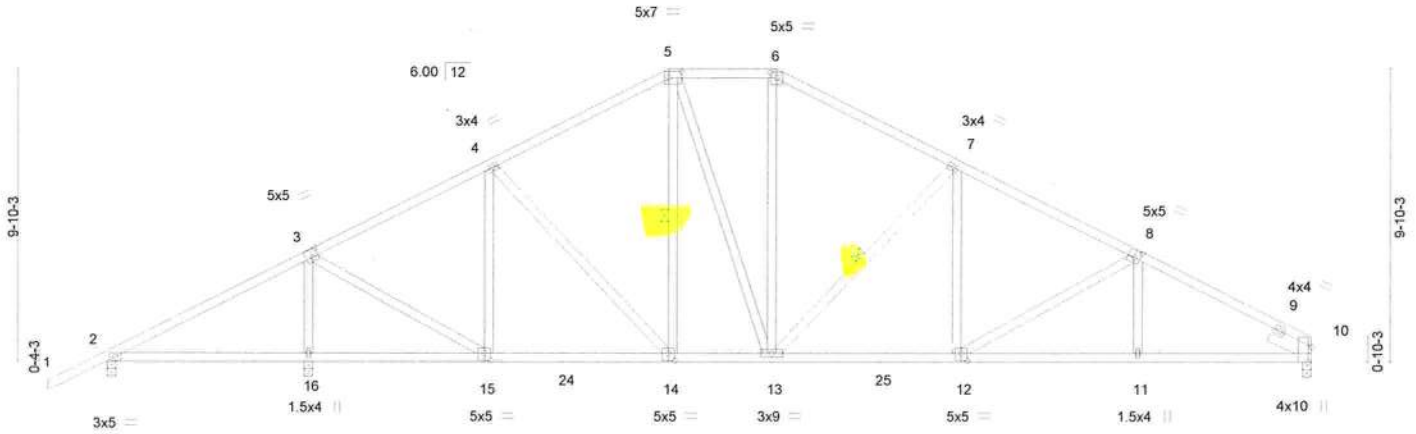
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A7	Hip	1	1	T22308703
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:47 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-dhAdDNmebmOp6S0Ew?syTIUyWhcHNMDZgdKHKAy3q_w

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

Scale = 1:72.9



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

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], [10:0-6-4,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	0.84	Vert(LL)	0.09	16-19	>881	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.23	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 = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
10-12: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 -t 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=-46(LC 12)
Max Grav 2=194(LC 21), 16=1968(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=-102/687, 3-4=-985/310, 4-5=-1190/427, 5-6=-1091/450, 6-7=-1309/452, 7-8=-1788/497, 8-10=-2086/509
BOT CHORD 2-16=-556/125, 15-16=-518/114, 14-15=-74/874, 13-14=-43/988, 12-13=-244/1548, 11-12=-372/1782, 10-11=-370/1782
WEBS 3-16=-1804/489, 3-15=-214/1457, 4-15=-636/209, 4-14=0/327, 5-13=-65/409, 6-13=-65/321, 7-13=-726/259, 7-12=-0/380, 8-12=-286/148

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.

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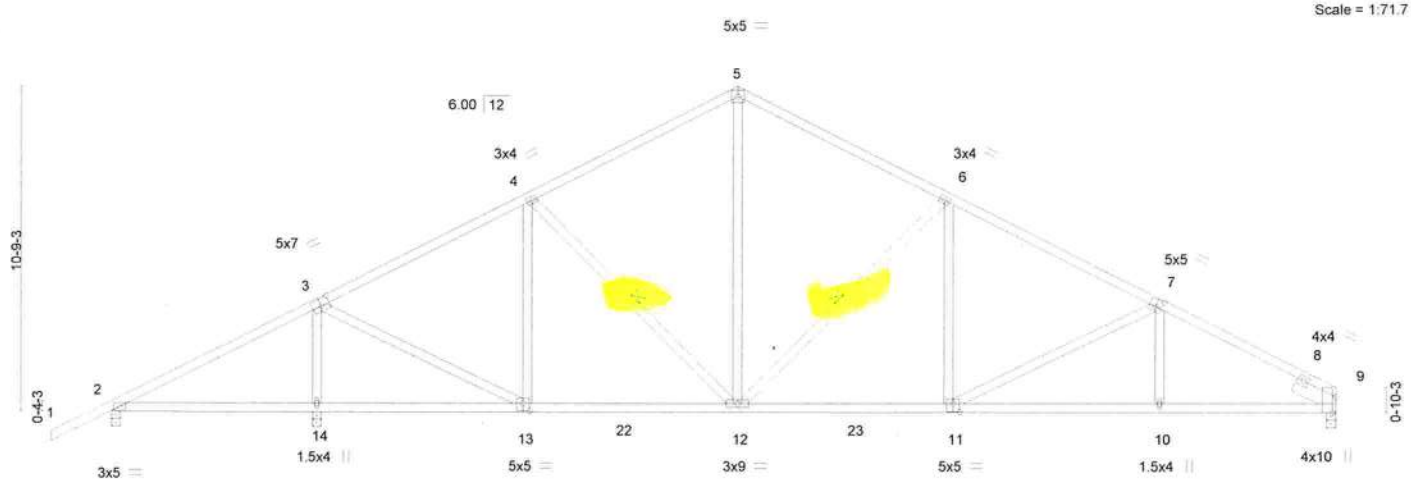
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A8	Common	1	1	T22308704
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:48 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-5tk?RjnGM4WgkcbRTjNB?W0765xD6pRjvH4rtcy3q_v

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

Scale = 1:71.7



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

Plate Offsets (X,Y)-- [3:0-3-8,0-3-0], [7:0-2-8,0-3-0], [9:0-6-4,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	0.85	Vert(LL)	0.09	14-17	>885	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	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 = 20%

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 -t 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=199(LC 11)
Max Uplift 2=-118(LC 12), 14=-48(LC 12)
Max Grav 2=199(LC 21), 14=1982(LC 1), 9=1292(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-114/718, 3-4=-1074/333, 4-5=-1187/442, 5-6=-1186/443, 6-7=-1764/493, 7-9=-2095/517
BOT CHORD 2-14=-587/138, 13-14=-548/126, 12-13=-84/965, 11-12=-230/1492, 10-11=-381/1792, 9-10=-379/1793
WEBS 3-14=-1819/518, 3-13=-231/1522, 4-13=-557/209, 5-12=-176/646, 6-12=-807/285, 6-11=0/413, 7-11=-354/170

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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
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Date:

December 30,2020

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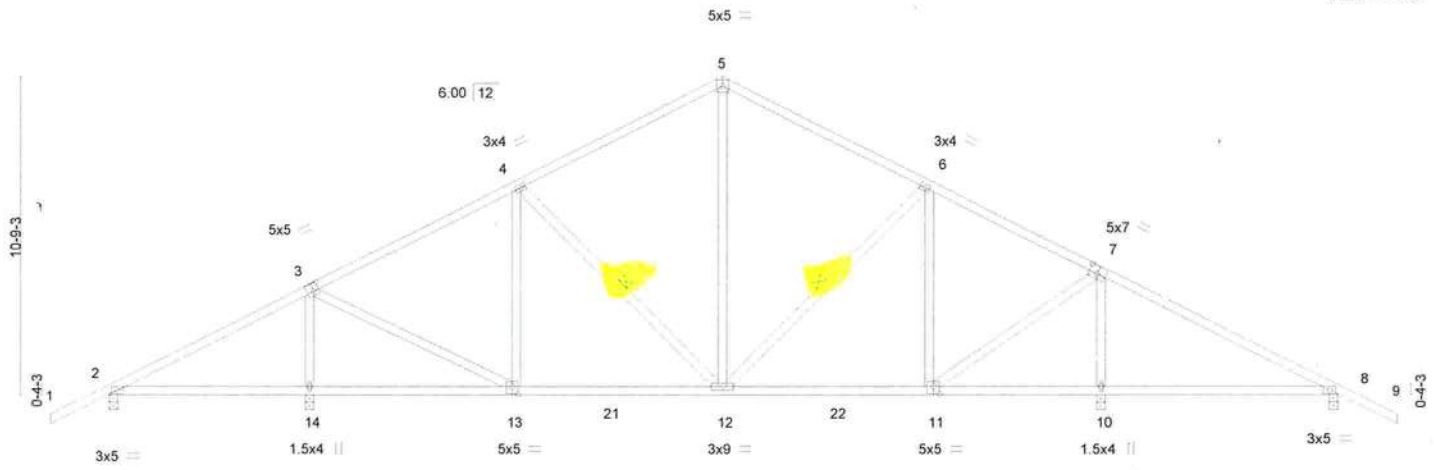
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A9	Common	1	1	T22308705
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:49 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-a4INe3nu7OeXLIAd1QvQYjZNXVM8rIHs8xpOP2y3q_u

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

Scale = 1:73.2



6-9-12	13-9-14	20-10-0	27-10-2	33-8-4	41-8-0
6-9-12	7-0-2	7-0-2	7-0-2	5-10-2	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	0.55	Vert(LL)	0.18	10-20	>541	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.20	10-20	>474	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 233 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 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=-138(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=343(LC 21), 14=1411(LC 1), 10=1459(LC 1), 8=398(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-73/259, 3-4=-943/324, 4-5=-841/376, 5-6=-832/374, 6-7=-824/310
BOT CHORD 12-13=-8/862, 11-12=0/675
WEBS 3-14=-1293/374, 3-13=-76/950, 4-13=-275/139, 5-12=-107/347, 6-11=-381/135, 7-11=-39/891, 7-10=-1292/358

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=138.
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.

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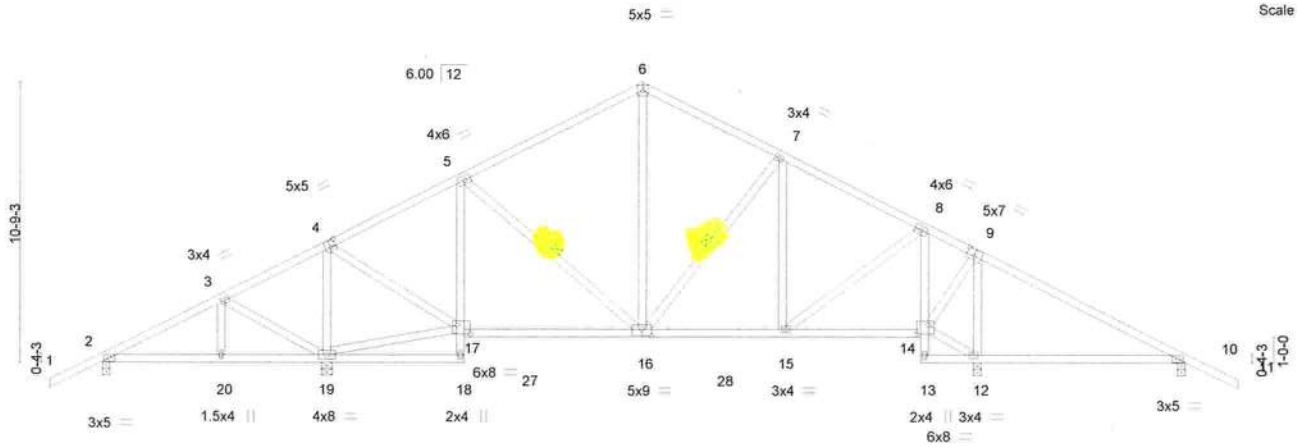
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308706
THORNWOOD_25	A10	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:30 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-dQfBfZZzbYFDaqDzQx3zHjG6BrtVuh63mUjuFfy3q?B

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

Scale = 1:83.0



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

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-8,0-4-4], [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	>637	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	12-26	>522	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: 259 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-16, 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=-131(LC 12), 10=-143(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=317(LC 21), 10=326(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=-63/491, 4-5=-648/210, 5-6=-713/308, 6-7=-684/320, 7-8=-762/283, 8-9=-280/182, 9-10=0/337
BOT CHORD 5-17=-432/195, 16-17=0/633, 15-16=0/636, 8-14=-594/90
WEBS 3-19=-363/317, 4-19=-1216/310, 17-19=-281/241, 4-17=-130/971, 6-16=-85/285, 8-15=-43/541, 9-14=0/622, 9-12=-1128/216

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.

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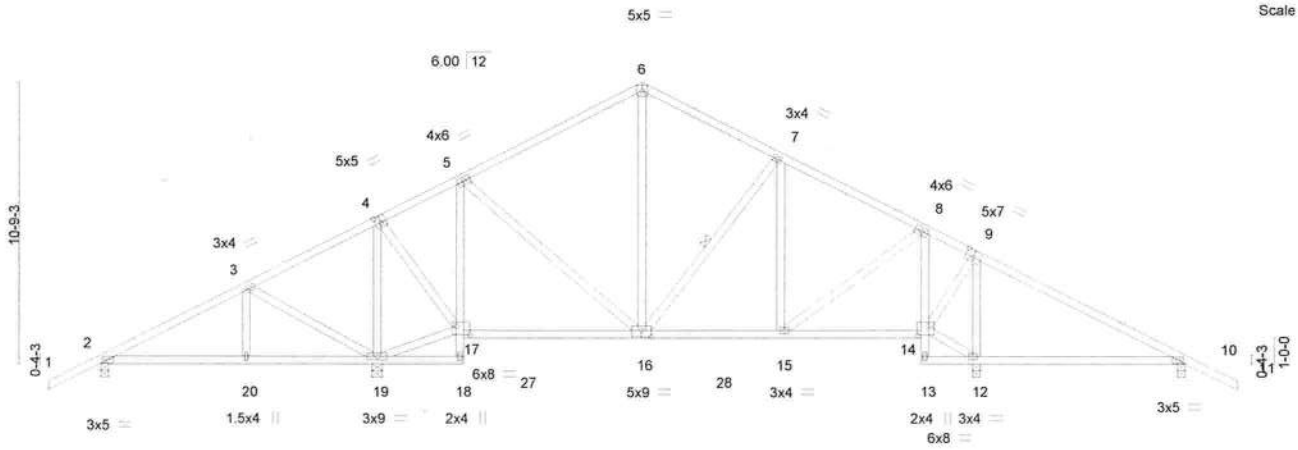
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A11	Roof Special	1	1	T22308707
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:31 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-5cCZsvabMsN4B_oA_eaCpwpH_FDmd6pC?8SRn5y3q?A

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

Scale = 1:83.0



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

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-8,0-4-4], [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	>636	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	12-26	>521	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: 259 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 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=-142(LC 12), 10=-143(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=422(LC 21), 10=341(LC 22), 19=1520(LC 1), 12=1328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-270/252, 3-4=-54/428, 4-5=-312/114, 5-6=-597/268, 6-7=-556/281, 7-8=-682/254, 8-9=-278/179, 9-10=0/288
BOT CHORD 5-17=-642/243, 16-17=0/323, 15-16=0/553, 8-14=-501/62
WEBS 3-19=-504/413, 4-19=-1132/228, 17-19=-277/309, 4-17=-80/837, 5-16=-3/286, 8-15=-14/444, 9-14=0/540, 9-12=-1033/187

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=142, 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.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A12	Roof Special	1	1	T22308708
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:32 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-Zomy4FaD79Vxp8NMXM5RM8MSkeY0MXbMDoC?KYy3q?9

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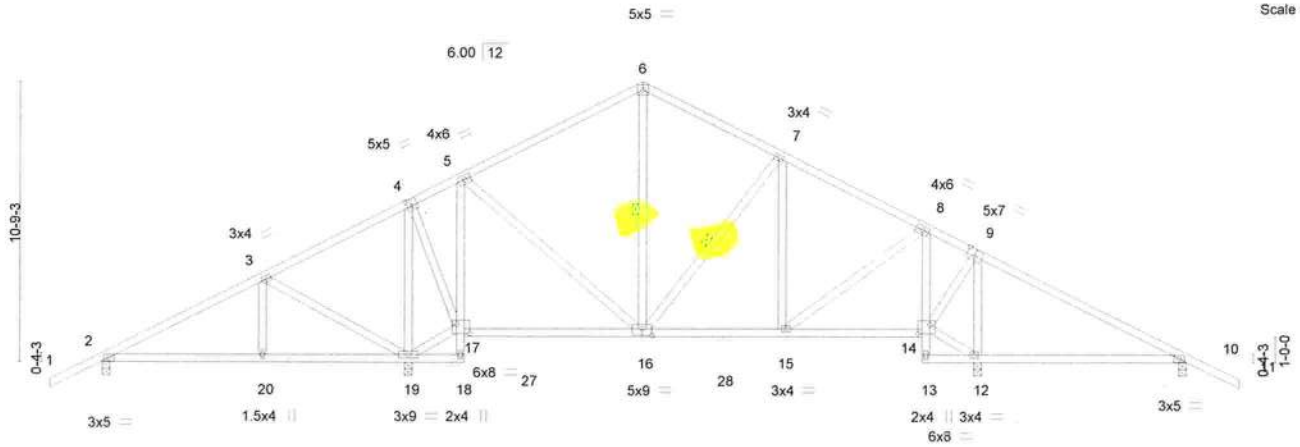
2-0-0	6-2-2	5-7-10	2-1-12	6-10-8	5-4-4	5-4-4	2-1-12	7-11-12	2-0-0

Scale = 1:83.0



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

Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [9:0-3-8,0-3-0], [14:0-5-8,0-4-4], [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	>635	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	12-26	>520	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: 259 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-16, 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) 12 except 2=-150(LC 12), 10=-144(LC 12), 19=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except 2=475(LC 21), 10=345(LC 22), 19=1516(LC 1), 12=1270(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-358/297, 3-4=-46/402, 5-6=-532/246, 6-7=-491/259, 7-8=-632/238, 8-9=-263/176, 9-10=0/277
BOT CHORD 2-20=-122/264, 19-20=-122/264, 5-17=-753/271, 16-17=-49/272, 15-16=0/501, 8-14=-463/48
WEBS 3-20=-151/253, 3-19=-566/460, 4-19=-1073/133, 17-19=-278/354, 4-17=-12/790, 5-16=-47/427, 8-15=0/401, 9-14=0/494, 9-12=-982/171

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=144, 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.

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December 30,2020

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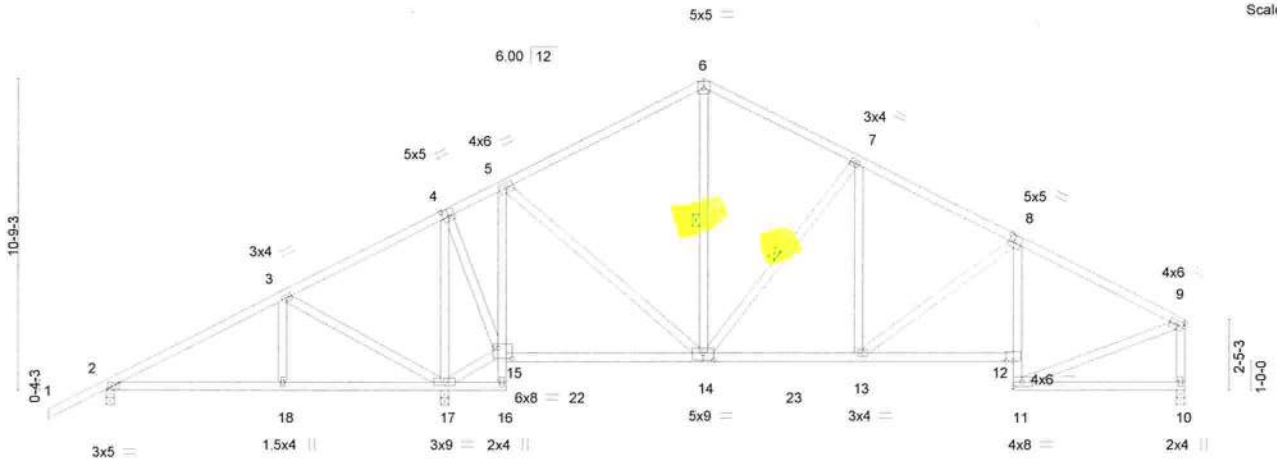
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A13	Roof Special	2	1	T22308709
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:33 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-1?KKHbbsuTdoRlyY53cgvLufd2pe5xuVSSxYs_y3q?8

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

Scale = 1:74.9



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

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

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	0.48	Vert(LL)	-0.11	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.23	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.14	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 241 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-11: 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 6-14, 7-14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 17=0-3-8
Max Horz 2=228(LC 11)
Max Uplift 2=-147(LC 12), 17=-109(LC 12)
Max Grav 2=345(LC 21), 10=844(LC 1), 17=2046(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-72/446, 3-4=-269/895, 4-5=-120/454, 5-6=-514/230, 6-7=-471/241, 7-8=-873/272, 8-9=-925/249, 9-10=-826/224
BOT CHORD 2-18=-426/9, 17-18=-426/9, 5-15=-1243/417, 14-15=-378/270, 13-14=-57/688, 12-13=-171/877
WEBS 3-18=-155/255, 3-17=-571/467, 4-17=-1277/283, 15-17=-814/388, 4-15=-147/968, 5-14=-190/910, 7-14=-605/228, 7-13=-35/351, 9-11=-122/752

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=38ft; 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) except (jt=lb) 2=147, 17=109.
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.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
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Date:

December 30,2020

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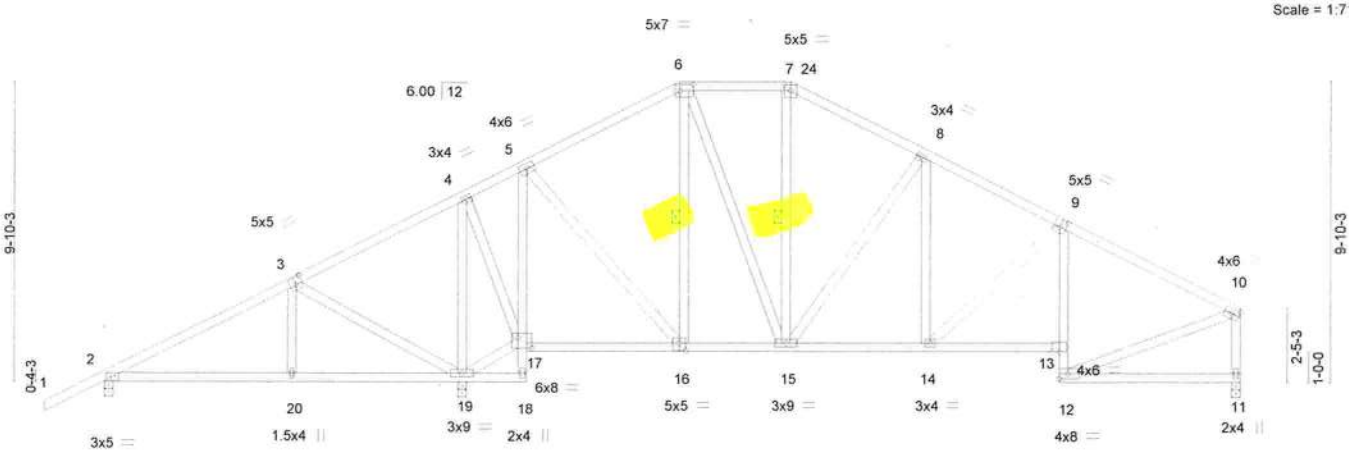
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308710
THORNWOOD_25	A14	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:35 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-_NS4iHd6Q4tWgc6xDUf8_m_?NsVnZswowmQfwsy3q?6

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

Scale = 1:71.3



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

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], [16:0-2-8,0-3-0], [17:0-5-8,0-4-4]

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	0.46	Vert(LL)	-0.10	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.21	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 260 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-12: 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 6-16, 7-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 19=0-3-8
Max Horz 2=212(LC 11)
Max Uplift 2=-146(LC 12), 19=-111(LC 12)
Max Grav 2=351(LC 21), 11=856(LC 1), 19=2008(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-82/405, 3-4=-252/832, 4-5=-104/399, 5-6=-384/195, 6-7=-461/262, 7-8=-579/255, 8-9=-908/279, 9-10=-935/247, 10-11=-837/223
BOT CHORD 2-20=-334/15, 19-20=-336/12, 5-17=-1200/370, 16-17=-342/271, 15-16=0/300, 14-15=-75/752, 13-14=-165/877
WEBS 3-20=-156/256, 3-19=-561/459, 4-19=-1210/282, 17-19=-786/356, 4-17=-123/878, 5-16=-200/917, 6-16=-577/195, 6-15=-139/516, 8-15=-497/204, 8-14=-38/328, 10-12=-118/762

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=38ft; 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=146, 19=111.
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.

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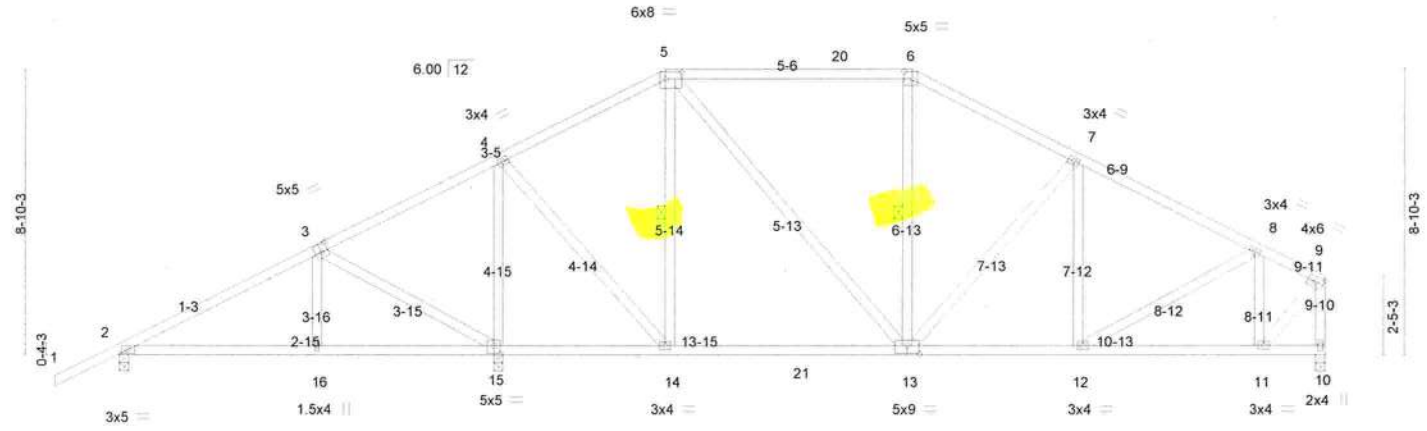
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308711
THORNWOOD_25	A15	Hip	1	1	Job Reference (optional)	

Mayo Truss, Mayo, Fl, Mitek 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 15:09:42 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-z3XxRQZvTuBOmmEDgGvADuFkCzI3F7IxDTzMeiy3IZt

-2-0-0	6-2-2	11-9-12	17-0-0	24-8-0	29-10-4	35-5-14	37-6-0
2-0-0	6-2-2	5-7-10	5-2-4	7-8-0	5-2-4	5-7-10	2-0-2

Scale = 1:67.1



6-2-2	11-9-12	17-0-0	24-8-0	29-10-4	35-5-14	37-6-0
6-2-2	5-7-10	5-2-4	7-8-0	5-2-4	5-7-10	2-0-2

Plate Offsets (X,Y)-- [3:0-2-8,0-3-0], [5:0-6-0,0-2-8], [6:0-3-0,0-2-8], [13:0-4-8,0-3-0], [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	0.63	Vert(LL)	-0.10	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.18	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 234 lb	FT = 20%

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

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

REACTIONS. (lb/size) 2=480/0-3-8 (min. 0-1-8), 15=1655/0-3-8 (min. 0-1-15), 10=974/0-3-8 (min. 0-1-8)
Max Horz 2=194(LC 11)
Max Uplift 2=-137(LC 12), 15=-121(LC 12)
Max Grav 2=495(LC 21), 15=1655(LC 1), 10=974(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-395/232, 3-4=-127/301, 4-5=-592/200, 5-20=-753/304, 6-20=-753/304, 6-7=-889/294, 7-8=-1059/281, 8-9=-652/169, 9-10=-972/198
BOT CHORD 2-16=-224/295, 15-16=-219/291, 14-21=0/470, 13-21=0/470, 12-13=-148/881, 11-12=-139/587
WEBS 3-16=-161/250, 3-15=-543/450, 4-15=-1281/406, 4-14=-173/894, 5-14=-531/221, 5-13=-138/473, 8-12=-10/337, 8-11=-596/208, 9-11=-188/901

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=38ft; 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 137 lb uplift at joint 2 and 121 lb uplift at joint 15.
7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	A16GE	Roof Special Supported Gable	1	1	T22308712

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:36 2020 Page 1
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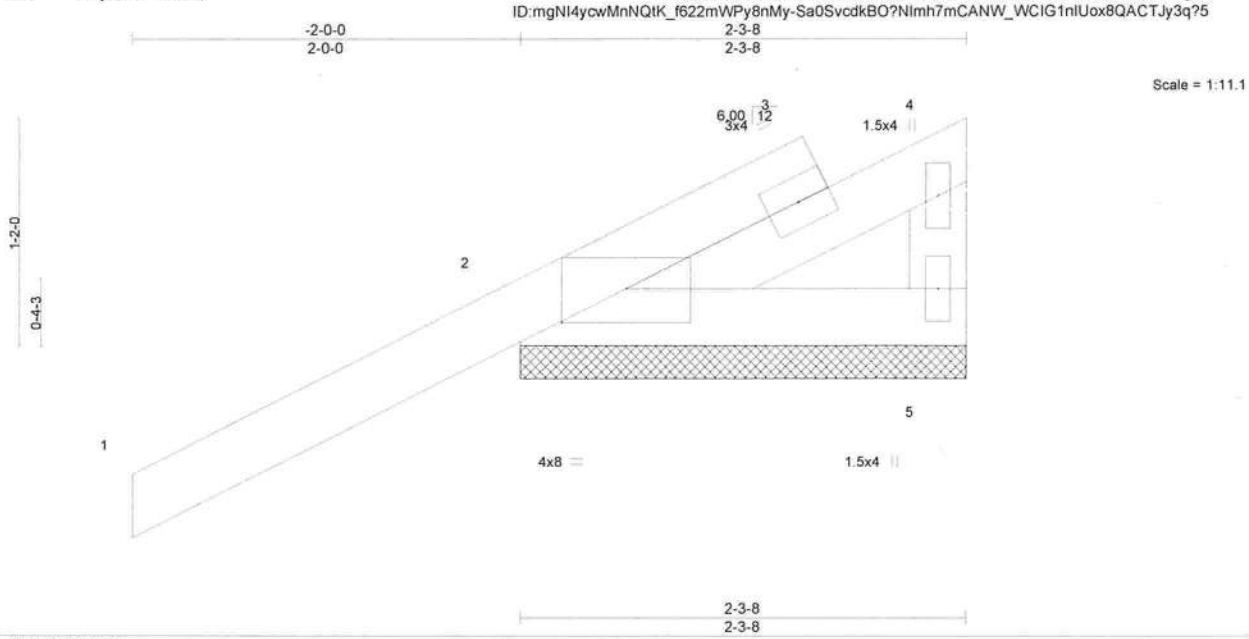

Plate Offsets (X,Y)-- [2:0-4-0,0-2-1]

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	0.05	Vert(CT)	-0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-3-8, 5=2-3-8
Max Horz 2=39(LC 12)
Max Uplift 2=-80(LC 12)
Max Grav 2=262(LC 1), 5=46(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=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
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Gable requires continuous bottom chord bearing.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.

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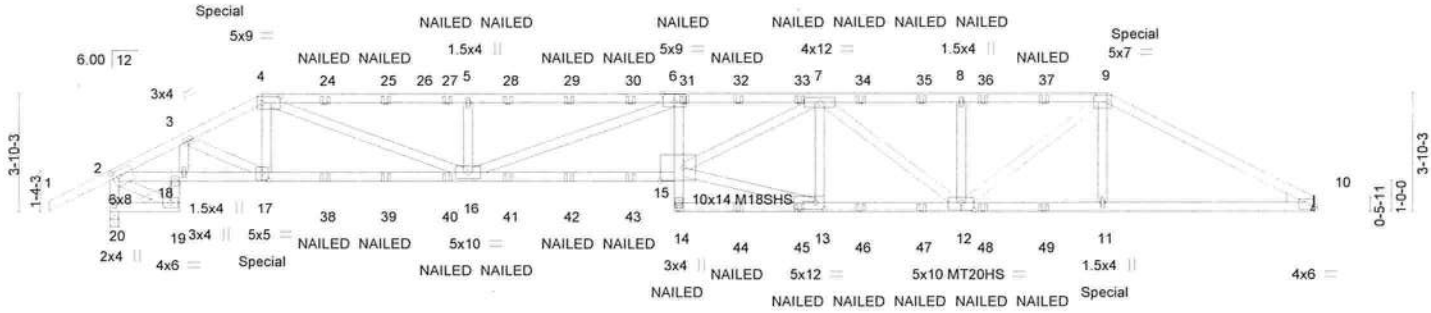
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308713
THORNWOOD_25	B1GIR	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:54 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-w15Ghmr1xwGpSX3aqzUbFnG7oWyGWOabHDX94Gy3q_p

-2-0-0	2-3-8	5-0-0	11-9-0	18-6-0	23-3-4	27-10-12	32-8-0	39-5-0
2-0-0	2-3-8	2-8-8	6-9-0	6-9-0	4-9-4	4-7-8	4-9-4	6-9-0

Scale = 1:70.8



2-3-8	5-0-0	11-9-0	18-6-0	23-3-4	27-10-12	32-8-0	39-5-0
2-3-8	2-8-8	6-9-0	6-9-0	4-9-4	4-7-8	4-9-4	6-9-0

Plate Offsets (X,Y)-- [2:0-2-7,0-2-4], [4:0-7-0,0-2-8], [6:0-4-8,0-3-4], [9:0-5-4,0-2-8], [10:0-0-0,0-0-14], [12:0-5-0,0-3-0], [13:0-3-8,0-2-8], [15:0-9-0,0-5-0], [17:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.90	Vert(LL)	-0.56	15-16	>835	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-1.17	15-16	>404	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.35	10	n/a	n/a	M18SHS	244/190
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 428 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
4-6,6-9: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2 *Except*
12-14,10-12: 2x4 SP No.1, 15-17: 2x4 SP SS
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

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) 10=Mechanical, 20=0-3-8
Max Horz 20=-83(LC 23)
Max Uplift 20=-48(LC 8)
Max Grav 10=3138(LC 1), 20=3329(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5869/0, 3-4=-6477/0, 4-5=-11119/0, 5-6=-11119/0, 6-7=-13858/0, 7-8=-7930/0, 8-9=-7930/0, 9-10=-6203/0, 2-20=-3341/59
BOT CHORD 2-18=0/4946, 17-18=0/5242, 16-17=0/5797, 15-16=0/14100, 6-15=0/584, 13-14=-6/590, 12-13=0/9202, 11-12=0/5457, 10-11=0/5441
WEBS 3-17=-29/678, 4-17=0/446, 4-16=0/5713, 5-16=-837/166, 6-16=-3192/3, 13-15=0/8887, 7-15=0/5235, 7-13=-2012/95, 7-12=-1617/5, 8-12=-616/141, 9-12=-21/3156, 9-11=0/527, 3-18=-537/0

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=39ft; 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) 20.
11) Nail 5D nail plates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

Continued on page 2

Julius Lee PE No.34869
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Date:
December 30,2020

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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 150 lb down and 96 lb up at 5-0-0, and 224 lb down and 135 lb up at 32-8-0 on top chord, and 255 lb down and 23 lb up at 5-0-0, and 321 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, 2-4=-60, 4-9=-60, 9-10=-60, 19-20=-20, 15-18=-20, 14-21=-20
   Concentrated Loads (lb)
   Vert: 4=-108(F) 9=-177(F) 17=-250(F) 15=-59(F) 11=-321(F) 24=-108(F) 25=-108(F) 27=-108(F) 28=-108(F) 29=-108(F) 30=-108(F) 31=-121(F) 32=-121(F) 33=-121(F) 34=-121(F) 35=-121(F) 36=-121(F) 37=-121(F) 38=-72(F) 39=-72(F) 40=-72(F) 41=-72(F) 42=-72(F) 43=-72(F) 44=-59(F) 45=-59(F) 46=-59(F) 47=-59(F) 48=-59(F) 49=-59(F)

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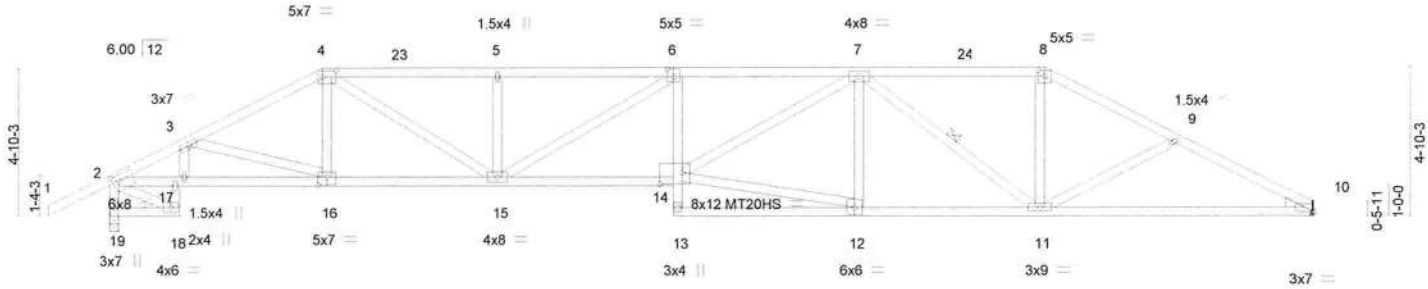
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308714
THORNWOOD_25	B2	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:56 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-sQD06StHTXXXhqCzxOX3KCLaaKfu_McuIX0G98y3q_n

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

Scale = 1:70.7



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

Plate Offsets (X,Y)-- [2:0-2-7,0-2-4], [4:0-5-4,0-2-8], [6:0-2-8,0-3-0], [8:0-2-8,0-2-4], [10:0-0-0,0-0-2], [14:0-9-0,0-4-8], [16:0-3-8,0-3-0]

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	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.75	14-15	>631	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.28	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 224 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
14-16: 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

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) 10=Mechanical, 19=0-3-8
Max Horz 19=-101(LC 10)
Max Uplift 19=-57(LC 12)
Max Grav 10=1567(LC 1), 19=1700(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2854/579, 3-4=-2852/608, 4-5=-3810/834, 5-6=-3810/834, 6-7=-4489/974, 7-8=-2401/576, 8-9=-2695/597, 9-10=-2945/671, 2-19=-1701/470
BOT CHORD 2-17=-431/2425, 16-17=-463/2537, 15-16=-394/2519, 14-15=-796/4538, 11-12=-562/3221, 10-11=-532/2568
WEBS 4-15=-301/1573, 5-15=-360/161, 6-15=-883/177, 12-14=-535/3040, 7-14=-265/1478, 7-12=-497/175, 7-11=-1105/218, 8-11=-113/873

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=39ft; 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) 19.
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.

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Date:

December 30,2020

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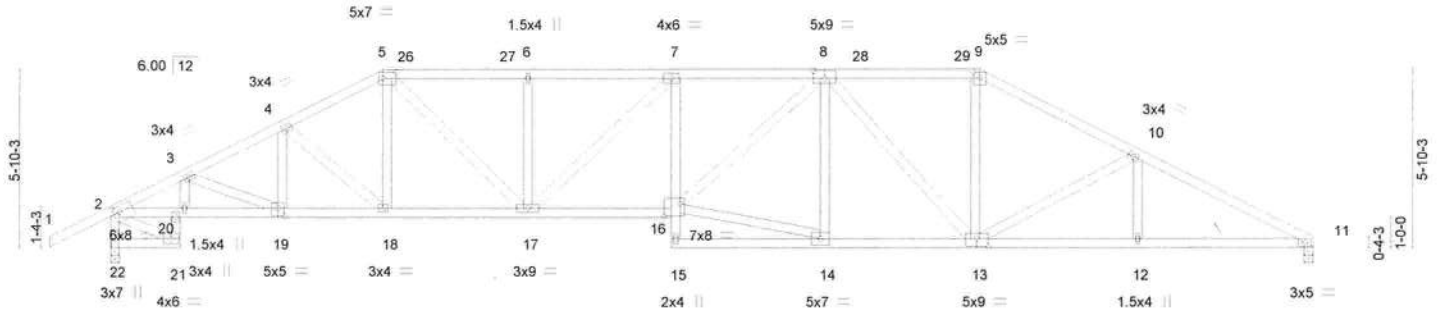
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308715
THORNWOOD_25	B3	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:57 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-LcnOKouvErfOJ_n9V62ItPunCj?gjpq1zBlphby3q_m

-2-0-0	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	2-3-8	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



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
2-3-8	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)-- [2:0-2-7,0-2-4], [5:0-5-4,0-2-8], [8:0-4-8,0-3-0], [9:0-2-8,0-2-4], [13:0-4-8,0-3-0], [16:0-6-4,0-4-12], [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	0.38	Vert(LL)	-0.27	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.54	16-17	>877	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.25	11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 243 lb	FT = 20%

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

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

REACTIONS. (size) 11=0-3-8, 22=0-3-8
Max Horz 22=-121(LC 10)
Max Uplift 22=-57(LC 12)
Max Grav 11=1577(LC 1), 22=1710(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2829/583, 3-4=-2928/638, 4-5=-2699/622, 5-6=-3110/727, 6-7=-3110/727, 7-8=-3525/812, 8-9=-2285/593, 9-10=-2617/617, 10-11=-3099/678, 2-22=-1711/478
BOT CHORD 2-20=-425/2378, 19-20=-451/2510, 18-19=-439/2594, 17-18=-348/2380, 16-17=-580/3551, 13-14=-443/2733, 12-13=-531/2717, 11-12=-531/2717
WEBS 4-18=-309/119, 5-18=-26/299, 5-17=-203/1070, 6-17=-305/138, 7-17=-644/121, 14-16=-433/2653, 8-16=-178/1059, 8-14=-525/164, 8-13=-760/128, 9-13=-130/848, 10-13=-509/201

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) 22.
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.

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Date:

December 30,2020

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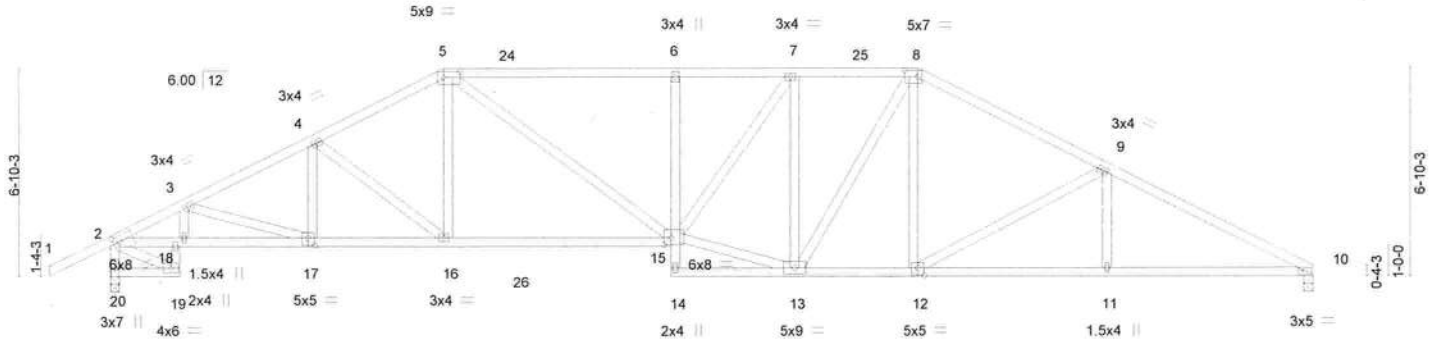
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308716
THORNWOOD_25	B5	Hip	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:58 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-poLnX8uX?9nFw8MM3pZXPdRss7M1SHtBCrVND1y3q_I

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

Scale = 1:71.2



2-3-8	6-7-12	11-0-0	18-6-0	22-7-0	26-8-0	32-10-12	39-8-0
2-3-8	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)-- [2:0-2-7,0-2-4], [5:0-6-8,0-2-4], [8:0-5-4,0-2-8], [12:0-2-8,0-3-0], [15:0-2-12,0-2-12], [17:0-2-8,0-3-0]

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	0.77	Vert(LL)	-0.21	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.48	15-16	>981	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 244 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-3-8, 20=0-3-8
Max Horz 20=-139(LC 10)
Max Uplift 20=-57(LC 12)
Max Grav 10=1577(LC 1), 20=1710(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2871/599, 3-4=-2889/648, 4-5=-2578/615, 5-6=-2842/710, 6-7=-2809/702, 7-8=-2338/627, 8-9=-2465/608, 9-10=-3040/682, 2-20=-1711/485
BOT CHORD 2-18=-441/2438, 17-18=-473/2551, 16-17=-434/2546, 15-16=-309/2266, 6-15=-405/186, 12-13=-311/2120, 11-12=-523/2671, 10-11=-523/2671
WEBS 4-16=-373/157, 5-16=-13/436, 5-15=-155/814, 13-15=-300/2297, 7-15=-130/828, 7-13=-880/182, 8-13=-71/528, 8-12=-51/436, 9-12=-629/242, 9-11=0/275

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) 20.
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.

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Date:

December 30,2020

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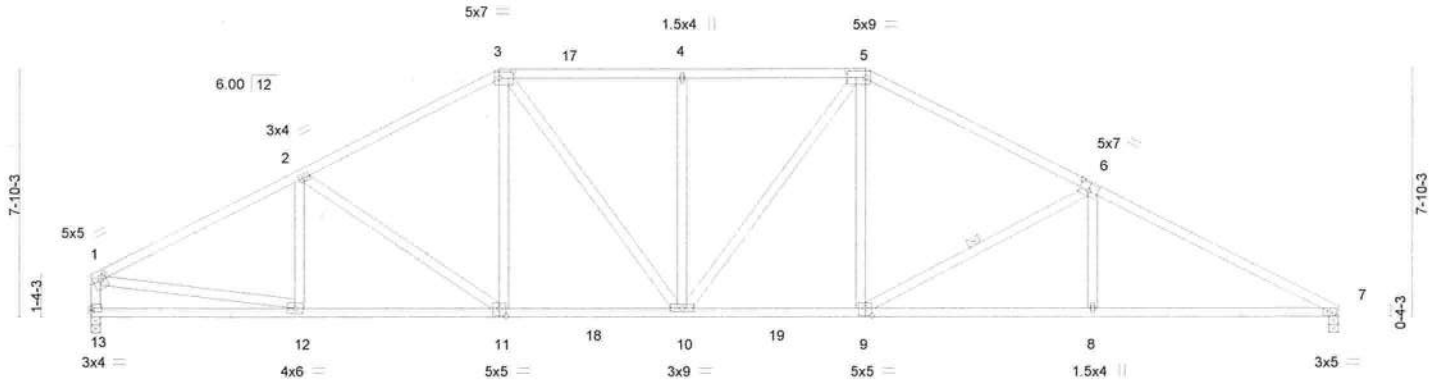
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	B6	Hip	1	1	T22308717
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:07:59 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-H?v9kUv9mSv6YIxYdX4myqz2QXgwBo?KRVEwmTy3q_k

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

Scale = 1:68.7



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)-- [1:0-2-4,0-1-12], [3:0-5-4,0-2-8], [5:0-7-0,0-2-8], [6:0-3-8,0-3-0], [9:0-2-8,0-3-0], [11:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.32	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.12	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 228 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-9

REACTIONS. (size) 13=0-3-8, 7=0-3-8
Max Horz 13=-151(LC 10)
Max Grav 13=1581(LC 1), 7=1581(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2352/548, 2-3=-2152/571, 3-4=-2090/607, 4-5=-2090/607, 5-6=-2318/599, 6-7=-2991/685, 1-13=-1511/384
BOT CHORD 12-13=-40/315, 11-12=-364/2054, 10-11=-237/1861, 9-10=-266/1975, 8-9=-515/2617, 7-8=-513/2620
WEBS 2-11=-260/155, 3-11=-17/340, 3-10=-82/528, 4-10=-378/156, 5-10=-32/347, 5-9=-55/543, 6-9=-736/284, 6-8=0/319, 1-12=-351/1840

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) 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.

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December 30,2020

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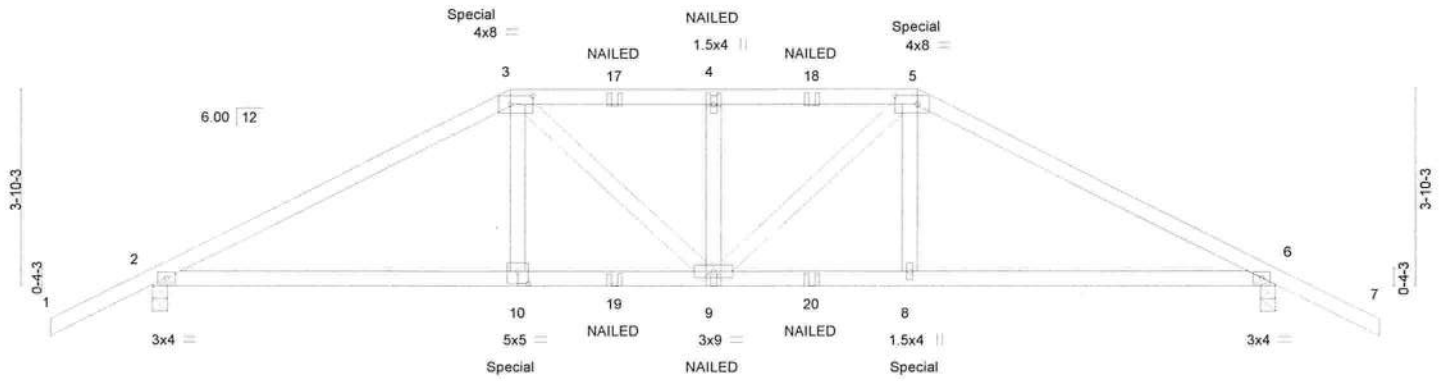
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308718
THORNWOOD_25	C1GIR	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:01 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-DN0v9AxQI49qob5xky6E1F3SCLSFfnvdupj1qMy3q_i

-2-0-0	7-0-0	11-0-0	15-0-0	22-0-0	24-0-0
2-0-0	7-0-0	4-0-0	4-0-0	7-0-0	2-0-0

Scale = 1:42.4



7-0-0	11-0-0	15-0-0	22-0-0
7-0-0	4-0-0	4-0-0	7-0-0

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [5:0-5-4,0-2-0], [10:0-2-8,0-3-0]

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	0.44	Vert(LL)	-0.06	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.12	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-MS							Weight: 208 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=75(LC 7)
Max Grav 2=1769(LC 1), 6=1769(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3127/0, 3-4=-3101/0, 4-5=-3101/0, 5-6=-3127/0
BOT CHORD 2-10=0/2714, 9-10=0/2735, 8-9=0/2735, 6-8=0/2714
WEBS 3-10=0/613, 3-9=-41/573, 4-9=-520/120, 5-9=-41/573, 5-8=0/613

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=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) 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) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 224 lb down and 132 lb up at 7-0-0, and 224 lb down and 132 lb up at 15-0-0 on top chord, and 321 lb down at 7-0-0, and 321 lb down at 14-11-4 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: 1-3=-60, 3-5=-60, 5-7=-60, 11-14=-20
Concentrated Loads (lb)
Vert: 3=-177(B) 5=-177(B) 10=-321(B) 9=-59(B) 4=-121(B) 8=-321(B) 17=-121(B) 18=-121(B) 19=-59(B) 20=-59(B)

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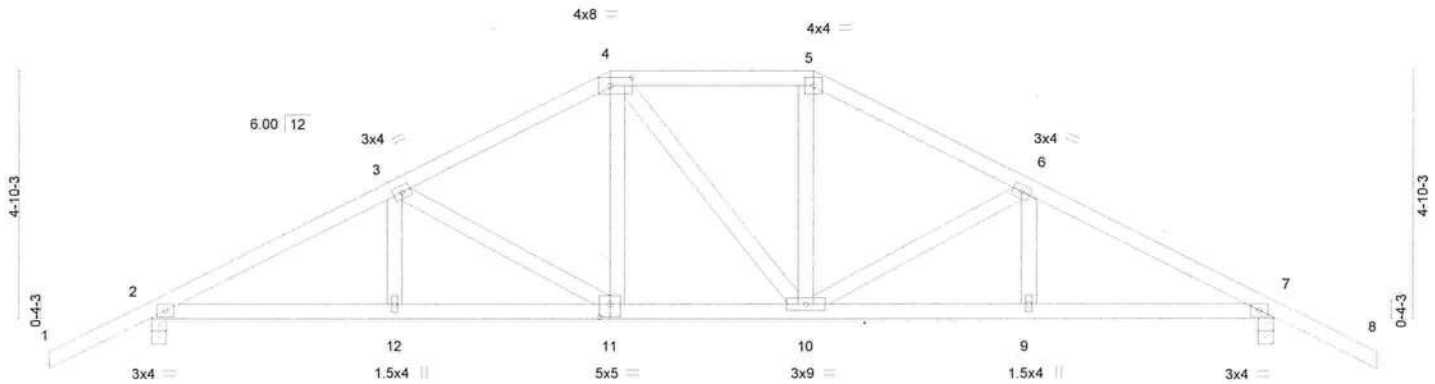
Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	C2	Hip	1	1	T22308719
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:02 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-haaHNVy23NHhPlg7IfeTaSbgtkqYODhm7TTaMoy3q_h

-2-0-0	4-9-4	9-0-0	13-0-0	17-2-12	22-0-0	24-0-0
2-0-0	4-9-4	4-2-12	4-0-0	4-2-12	4-9-4	2-0-0

Scale = 1:42.4



4-9-4	9-0-0	13-0-0	17-2-12	22-0-0
4-9-4	4-2-12	4-0-0	4-2-12	4-9-4

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	-0.05	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.10	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 117 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 7=0-3-8
Max Horz 2=-91(LC 10)
Max Uplift 2=-49(LC 12), 7=-49(LC 12)
Max Grav 2=1000(LC 1), 7=1000(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1560/339, 3-4=-1202/308, 4-5=-1023/306, 5-6=-1195/306, 6-7=-1560/338
BOT CHORD 2-12=-174/1347, 11-12=-174/1347, 10-11=-76/1020, 9-10=-200/1347, 7-9=-200/1347
WEBS 3-11=-377/141, 4-11=-23/306, 5-10=-19/307, 6-10=-382/142

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.
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.

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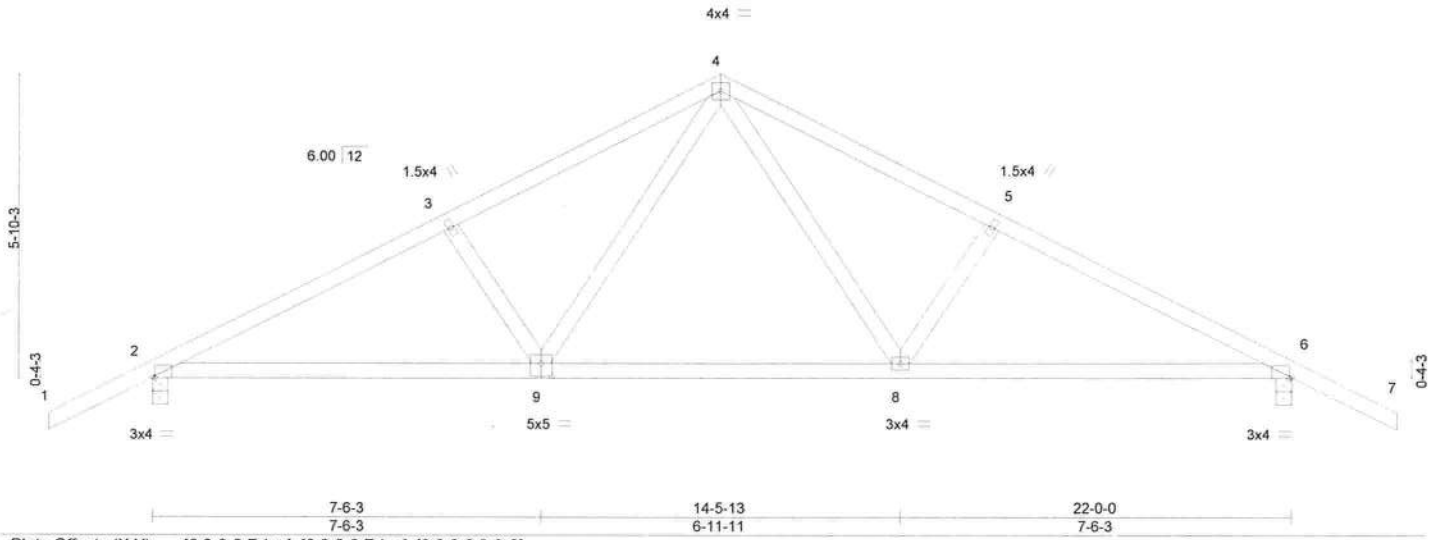
Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	C3	Common	4	1	T22308720
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:04 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-dyi2oBzlb?XOf3qVP4gxfth?qYSgs8z3anyhRhy3q_f

-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



7-6-3	14-5-13	22-0-0
7-6-3	6-11-11	7-6-3

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

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	0.29	Vert(LL)	-0.07	8-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.16	8-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	FBC2017/TPI2014	Matrix-AS							Weight: 104 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 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=-1502/363, 3-4=-1333/371, 4-5=-1333/371, 5-6=-1502/363
BOT CHORD 2-9=-192/1291, 8-9=-48/863, 6-8=-209/1291
WEBS 4-8=-102/500, 5-8=-324/199, 4-9=-102/500, 3-9=-324/199

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.

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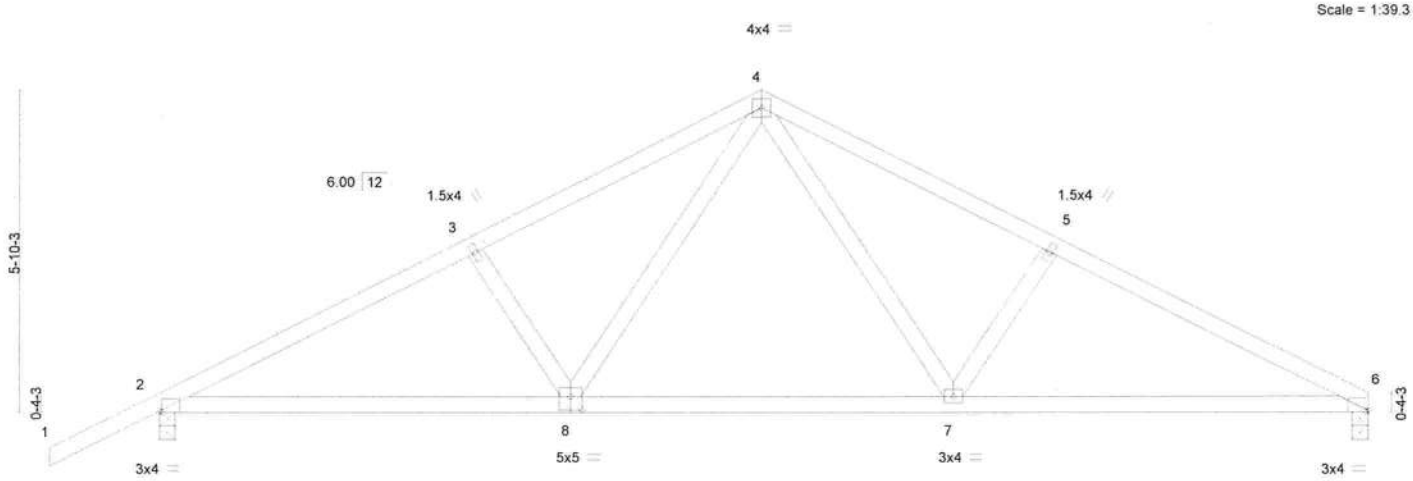
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308721
THORNWOOD_25	C4	Common	2	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:06 2020 Page 1
ID:mgNI4ycwMnNQtK_f622mWPy8nMy-aLqoCt?Y6cn6uNzuXViPkImKhM8wK2MM25RoVZy3q_d

-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 = 1:39.3



7-6-3	14-5-13	22-0-0
7-6-3	6-11-11	7-6-3

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

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	0.33	Vert(LL)	-0.07	7-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.17	7-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 101 lb	FT = 20%

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

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

REACTIONS. (size) 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=-1514/376, 3-4=-1344/385, 4-5=-1365/396, 5-6=-1522/389
BOT CHORD 2-8=-259/1302, 7-8=-99/874, 6-7=-273/1328
WEBS 4-7=-119/530, 5-7=-342/210, 4-8=-99/499, 3-8=-324/201

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.

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December 30,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	C5	Common	2	1	T22308722
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:07 2020 Page 1
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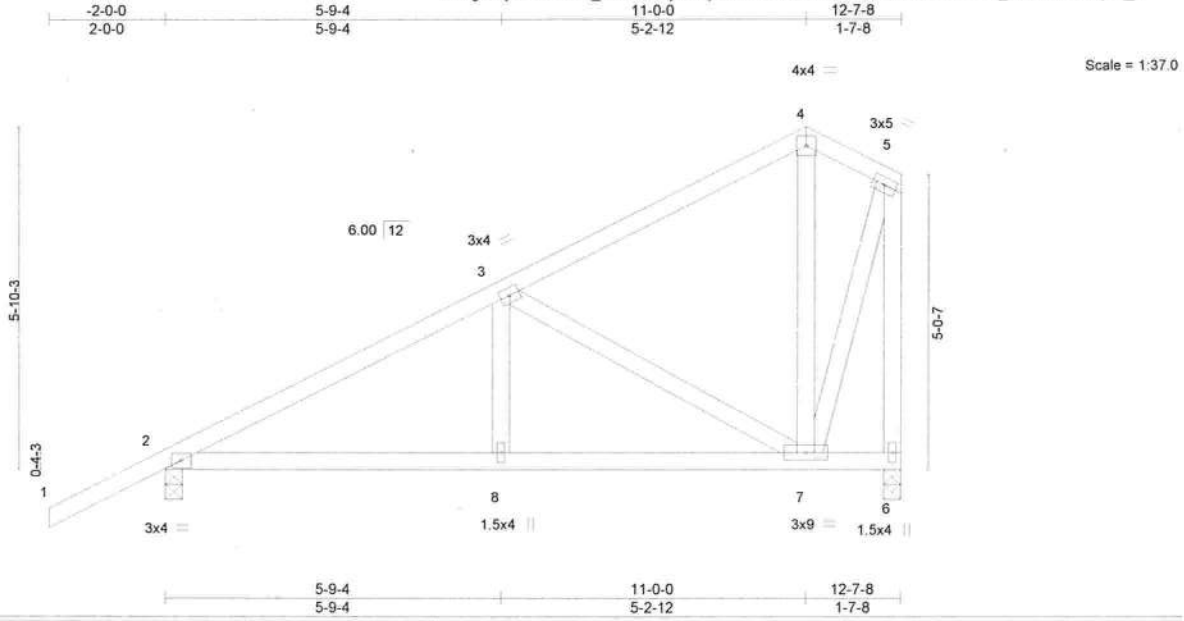

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	-0.02	8-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 77 lb	FT = 20%

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

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

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

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Date:

December 30,2020

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	CJ1	Diagonal Hip Girder	4	1	T22308723
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:08 2020 Page 1
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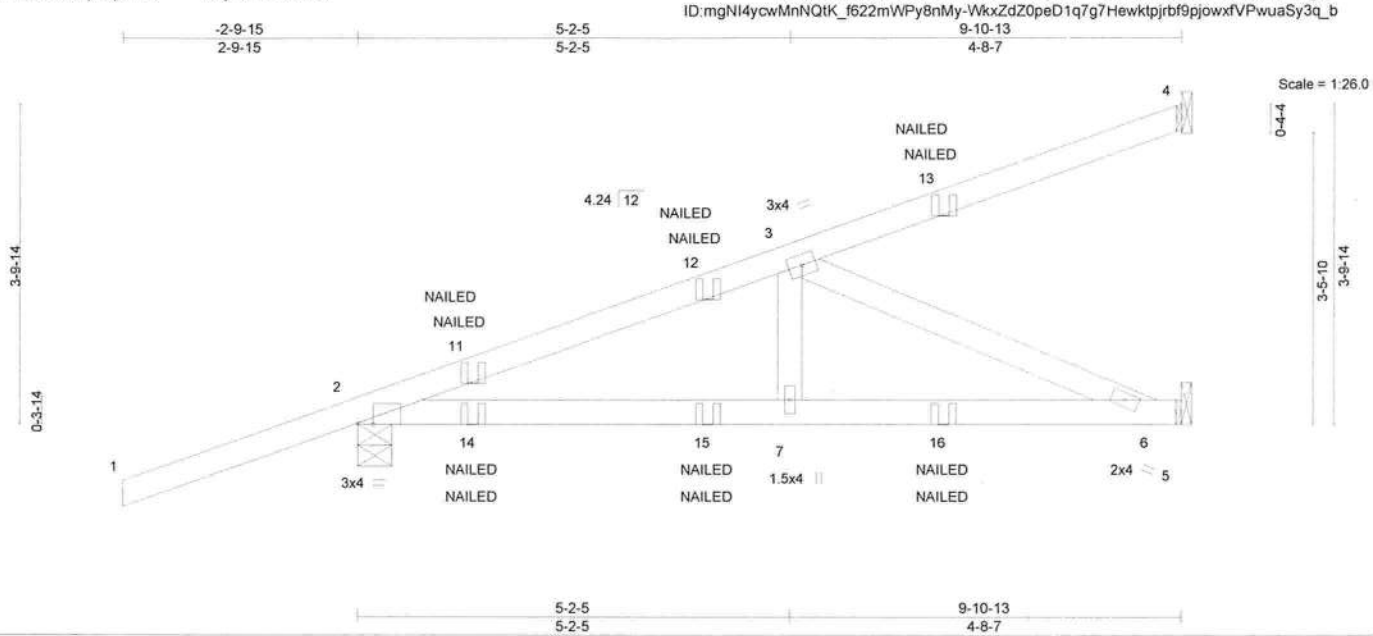

Plate Offsets (X,Y)-- [2:0-2-3,Edge]

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	0.62	Vert(LL)	-0.06	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical
Max Horz 2=120(LC 24)
Max Uplift 4=-32(LC 8), 2=-152(LC 8)
Max Grav 4=141(LC 1), 2=544(LC 28), 5=305(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-727/0
BOT CHORD 2-7=-33/637, 6-7=-33/637
WEBS 3-7=0/250, 3-6=-692/36

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=152.
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) 13=-71(F=-36, B=-36) 14=82(F=41, B=41) 15=4(F=2, B=2) 16=-49(F=-24, B=-24)

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308724
THORNWOOD_25	CJ2	Diagonal Hip Girder	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:09 2020 Page 1
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-2-9-15	1-8-7	3-1-6	4-11-0	7-0-2
2-9-15	1-8-7	1-4-15	1-9-10	2-1-2

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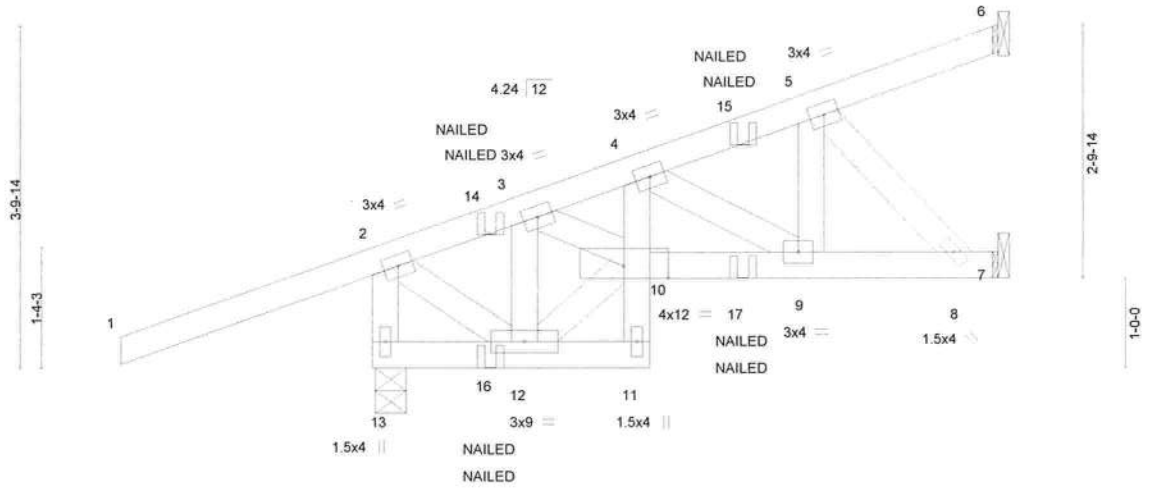

0-0-6	1-8-7	3-1-6	4-11-0	7-0-2
0-0-6	1-8-1	1-4-15	1-9-10	2-1-2

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	0.69	Vert(LL)	-0.01	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.01	10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 46 lb	FT = 20%

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

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

REACTIONS. (size) 13=0-4-3, 6=Mechanical, 7=Mechanical
Max Horz 13=118(LC 8)
Max Uplift 13=-151(LC 8), 6=-22(LC 24), 7=-14(LC 5)
Max Grav 13=491(LC 28), 6=51(LC 17), 7=228(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-474/150, 3-4=-427/70, 4-5=-289/10
BOT CHORD 9-10=-96/423
WEBS 2-12=-150/371, 3-12=-326/181, 3-10=-37/337, 5-8=-357/37

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) 6, 7 except (jt=lb) 13=151.
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: 1-2=-60, 2-6=-60, 11-13=-20, 7-10=-20
Concentrated Loads (lb)
Vert: 14=75(B) 15=-25(F=-22, B=-3) 16=2(F) 17=-38(F)

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	CJ3	Diagonal Hip Girder	2	1	T22308725
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:10 2020 Page 1
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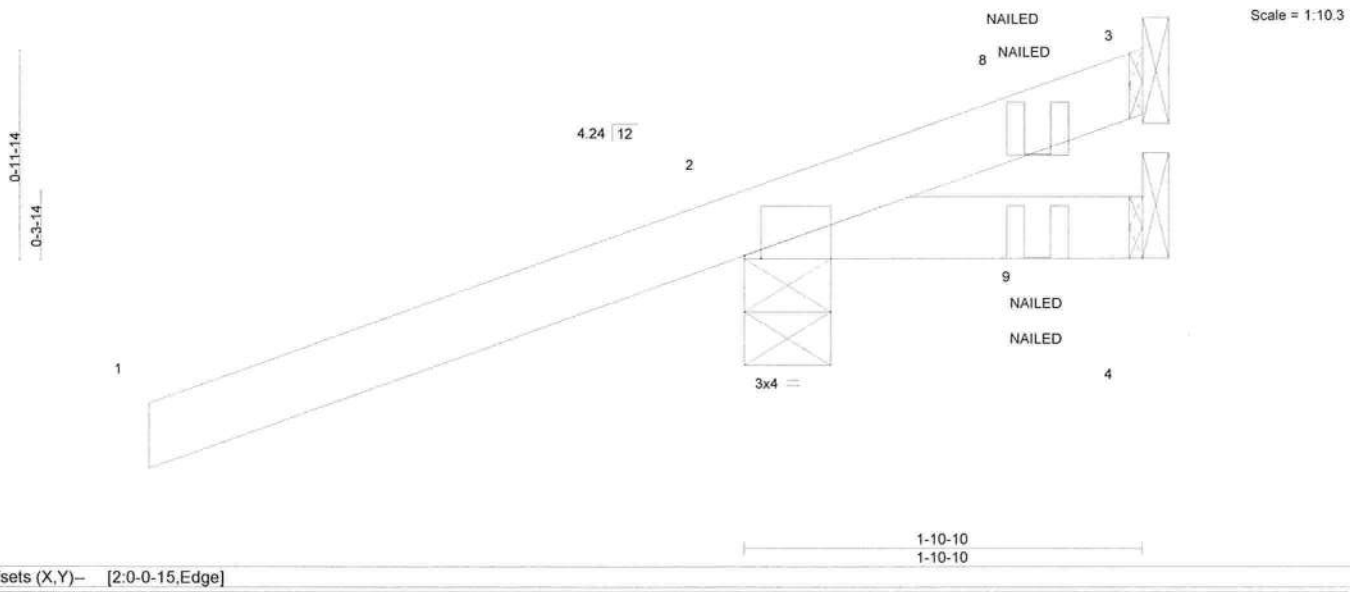

Plate Offsets (X,Y)-- [2:0-0-15,Edge]

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	0.62	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 10 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-4-15, 4=Mechanical, 3=Mechanical
Max Horz 2=53(LC 8)
Max Uplift 2=-139(LC 8), 4=-95(LC 17), 3=-75(LC 17)
Max Grav 2=359(LC 1), 4=67(LC 24), 3=64(LC 24)

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); 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, 3 except (jt=lb) 2=139.
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: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=27(F) 9=25(F=32, B=-7)

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	D1GE	Common Structural Gable	1	1	T22308726
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:11 2020 Page 1
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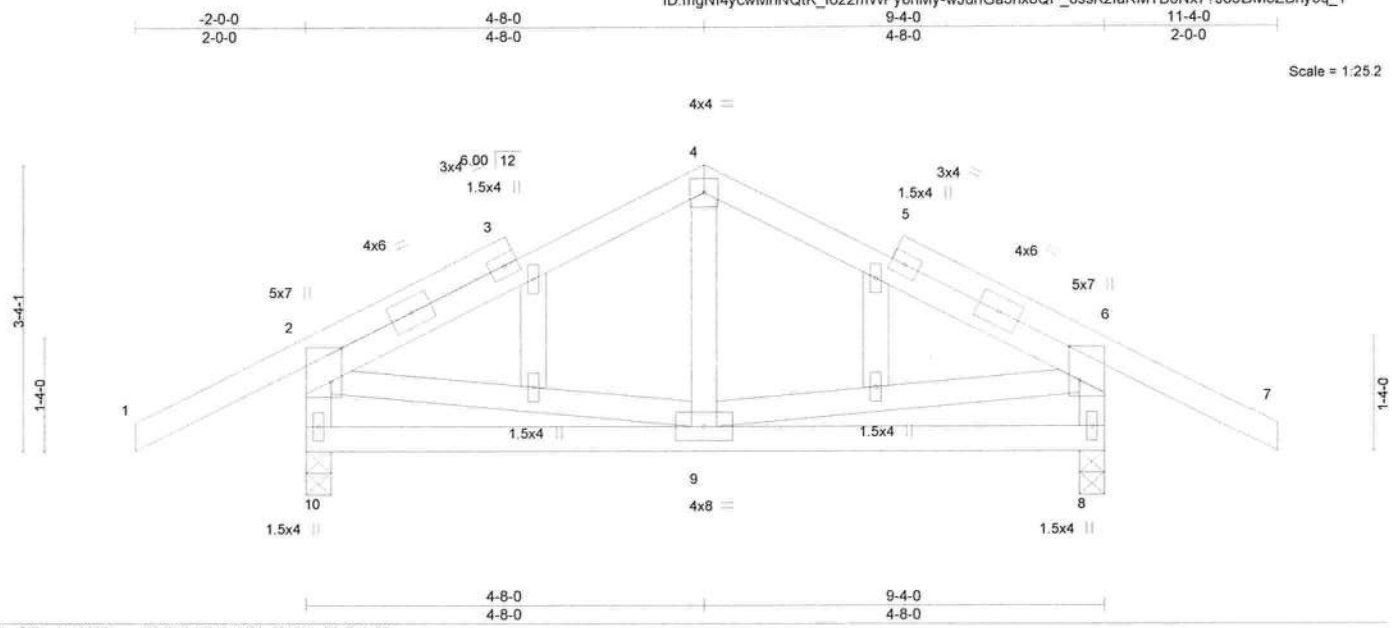

Plate Offsets (X,Y)-- [2:0-4-12,0-1-8], [6:0-4-12,0-1-8]

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	0.29	Vert(LL)	-0.01	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 67 lb	FT = 20%

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

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

REACTIONS. (size) 10=0-3-8, 8=0-3-8
Max Horz 10=-112(LC 10)
Max Uplift 10=-142(LC 12), 8=-142(LC 12)
Max Grav 10=490(LC 1), 8=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-343/50, 4-6=-343/50, 2-10=-447/166, 6-8=-447/166

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable 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) except (jt=lb) 10=142, 8=142.
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.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308727
THORNWOOD_25	D2	Roof Special	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:12 2020 Page 1
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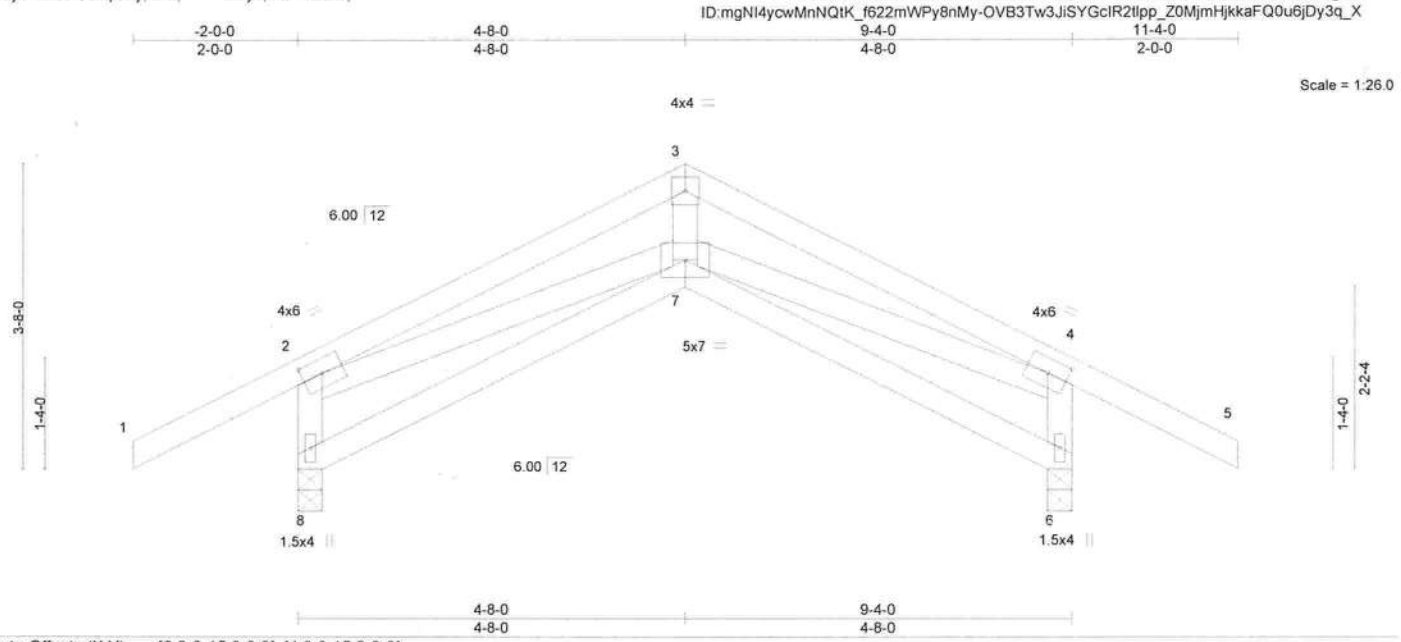

Plate Offsets (X,Y)-- [2:0-2-15,0-2-0], [4:0-2-15,0-2-0]

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	0.29	Vert(LL)	-0.02	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.05	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 56 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=129(LC 11)
Max Uplift 8=-142(LC 12), 6=-142(LC 12)
Max Grav 8=490(LC 1), 6=490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-457/132, 2-3=-777/0, 3-4=-793/0, 4-6=-457/132
WEBS 3-7=0/490, 4-7=0/660, 2-7=0/606

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=142, 6=142.
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.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	D3	Roof Special	1	1	T22308728
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:13 2020 Page 1
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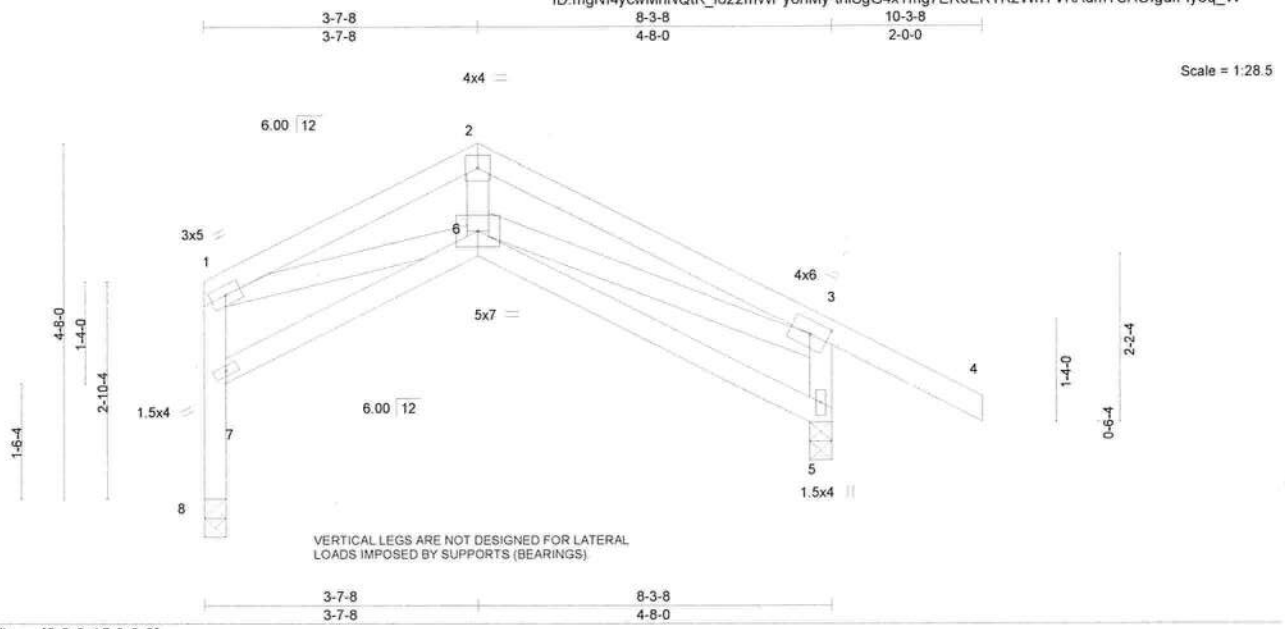

Plate Offsets (X,Y)-- [3:0-2-15,0-2-0]

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	0.43	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.04	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.12	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 50 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 8=0-3-8
Max Horz 8=-169(LC 10)
Max Uplift 5=-137(LC 12), 8=-45(LC 12)
Max Grav 5=466(LC 1), 8=303(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-303/45, 1-7=-353/32, 1-2=-769/46, 2-3=-770/44, 3-5=-431/127
BOT CHORD 6-7=-281/374
WEBS 1-6=0/475, 2-6=-53/494, 3-6=-41/634

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 5, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 5=137.
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.

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	D4	Roof Special	1	1	T22308729
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:13 2020 Page 1
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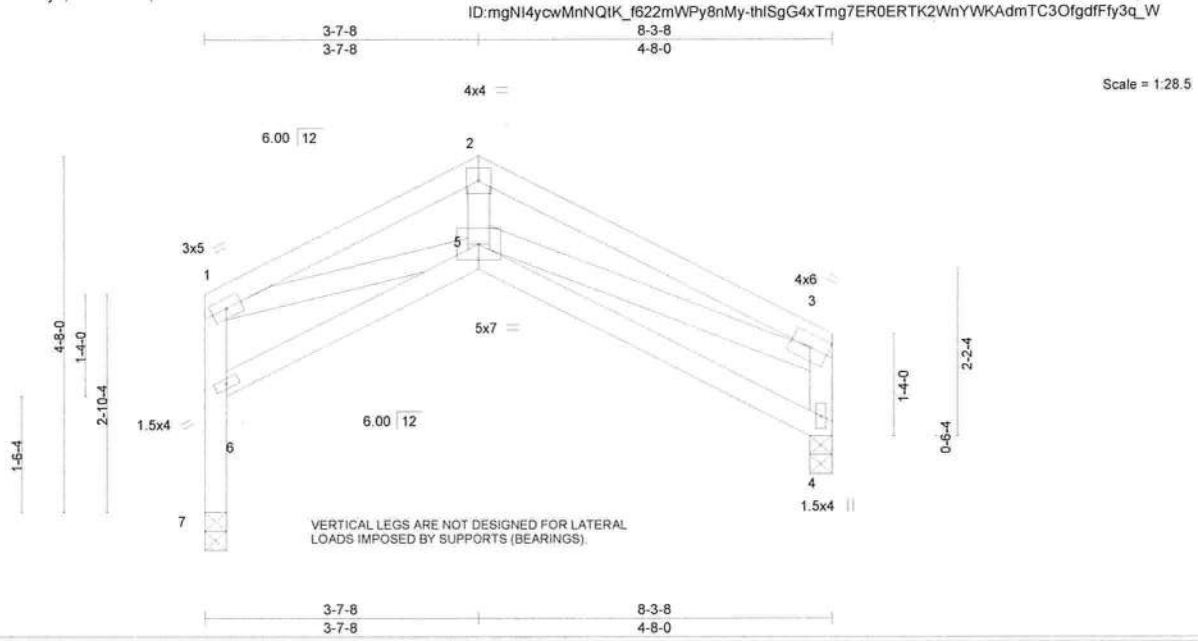

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.10	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 46 lb	FT = 20%

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

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

REACTIONS. (size) 4=0-3-8, 7=0-3-8
Max Horz 7=-148(LC 10)
Max Uplift 4=-47(LC 12), 7=-44(LC 12)
Max Grav 4=320(LC 1), 7=320(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 6-7=-320/44, 1-6=-348/69, 1-2=-733/83, 2-3=-765/89, 3-4=-318/75
BOT CHORD 5-6=-245/322
WEBS 1-5=0/538, 2-5=-45/445, 3-5=-67/586

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 4, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.
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.

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308730
THORNWOOD_25	GIR2	Hip Girder	1	2	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:16 2020 Page 1
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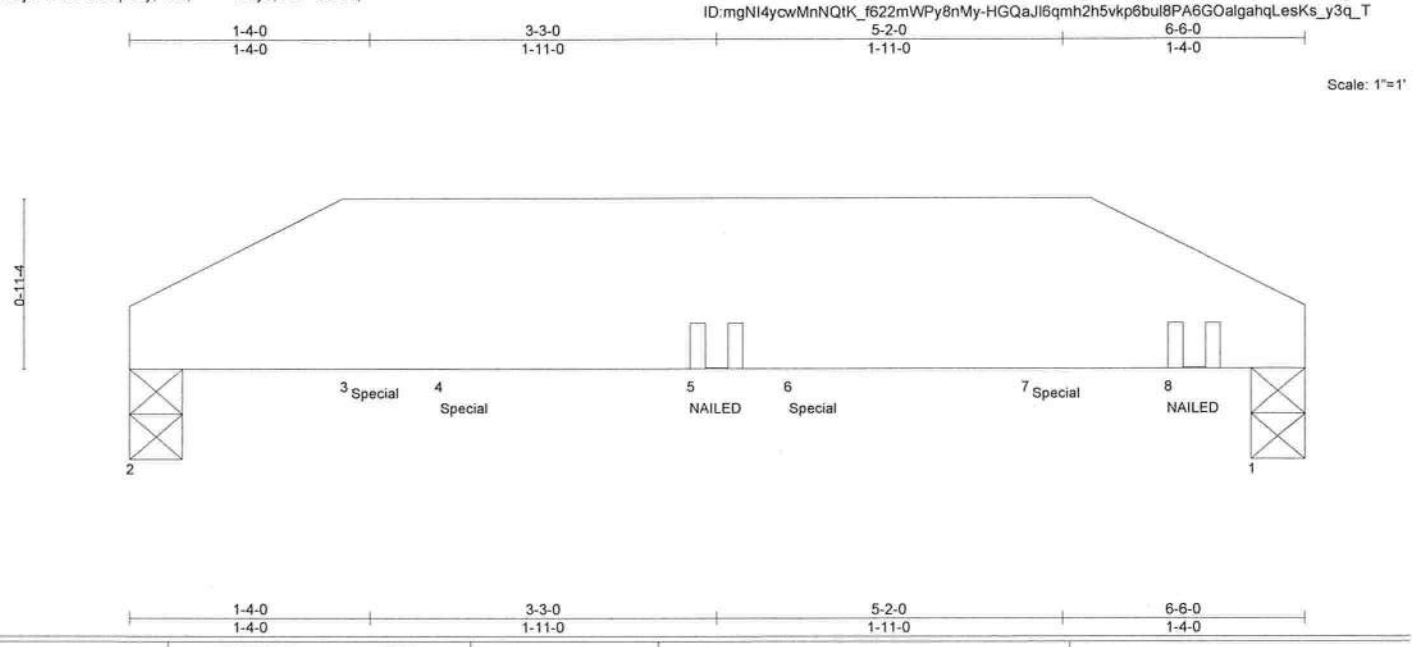

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 0.90	TC	0.00	Vert(LL)	-0.03	1-2	>999	240		
TCDL	10.0	Plate Metal DOL 0.90	BC	0.39	Vert(CT)	-0.05	1-2	>999	180		
BCLL	0.0 *	Lumber DOL 0.90	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Rep Stress Incr NO	Matrix-MP							Weight: 64 lb	FT = 20%
		Code FBC2017/TPI2014									

LUMBER-
BOT CHORD 1-1/2" x 11-1/4" VERSA-LAM® 2.0 3100 SP

BRACING-
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 1=0-3-8
Max Uplift 2=-60(LC 17), 1=-58(LC 17)
Max Grav 2=2405(LC 1), 1=2434(LC 1)

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

NOTES-
1) 2-ply truss to be connected together as follows:
Bottom chords connected with 10d (0.131"x3") nails as follows: 1 1/2 x 11 1/4 - 2 rows staggered 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) 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, 1.
6) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb up at 1-4-0, 1547 lb down at 1-10-4, and 3117 lb down at 3-9-8, and 121 lb up at 5-1-4 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=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20
Concentrated Loads (lb)
Vert: 3=76(B) 4=-1547(F) 5=23(B) 6=-3117(F) 7=23(B) 8=-173(F)

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308731
THORNWOOD_25	J1	Jack-Open	28	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:16 2020 Page 1
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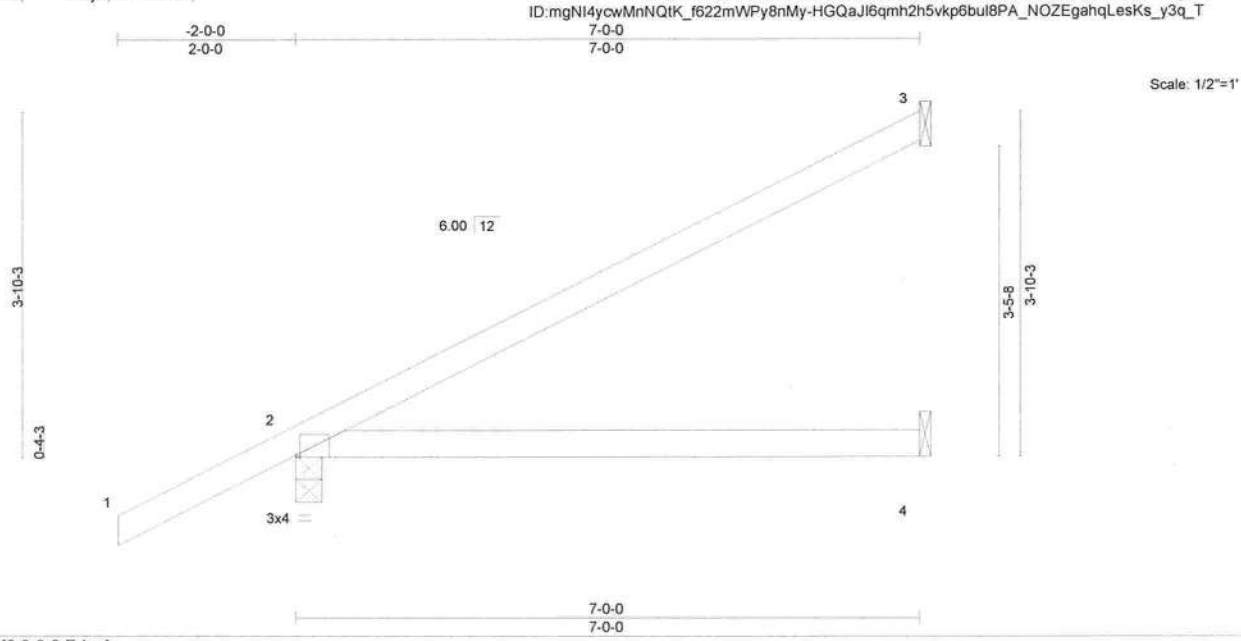

Plate Offsets (X,Y)-- [2:0-0-8,Edge]

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	0.57	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 = 20%

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

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

REACTIONS. (size) 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.

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J1A	Jack-Open	7	1	T22308732
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:17 2020 Page 1
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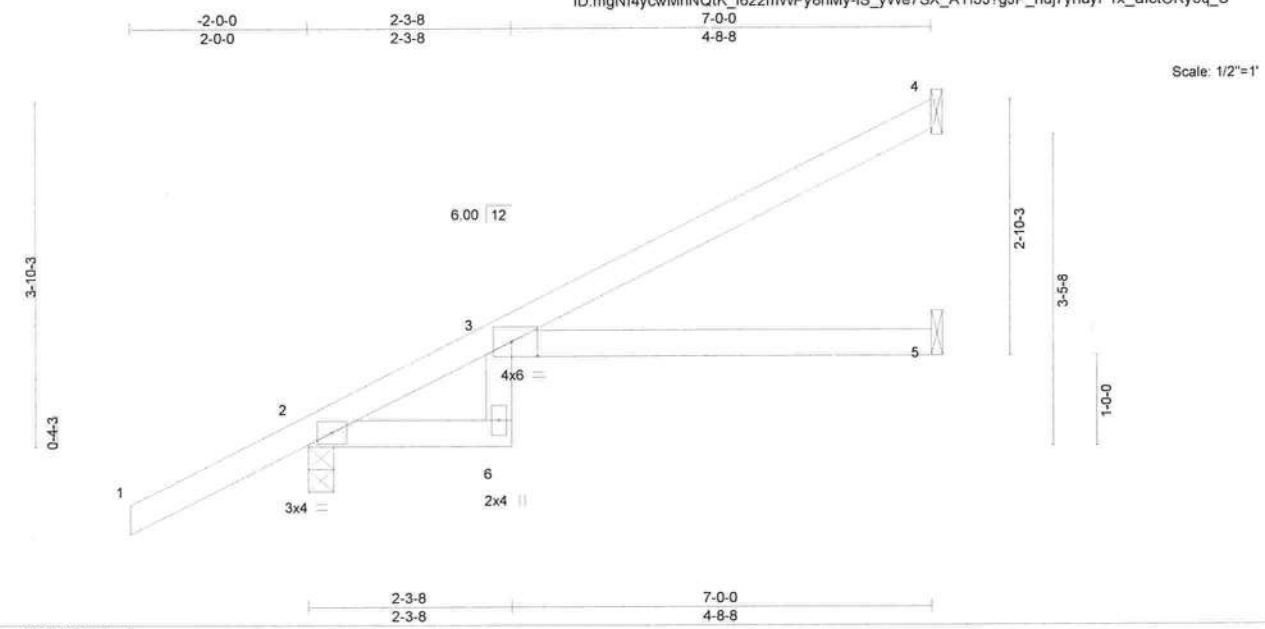

Plate Offsets (X,Y)-- [3:0-3-8,Edge]

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	0.64	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 = 20%

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

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

REACTIONS. (size) 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.

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Date:

December 30,2020

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MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308733
THORNWOOD_25	J1B	Jack-Open	3	1	Job Reference (optional)	

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

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:18 2020 Page 1
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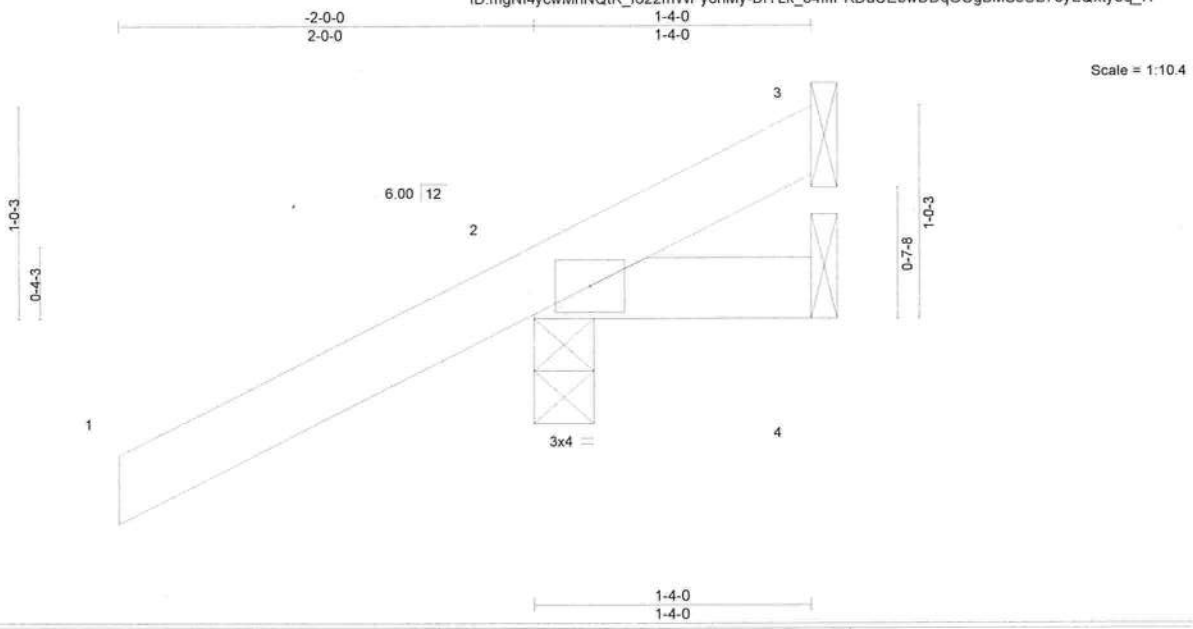

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-4-0 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=52(LC 12)
Max Uplift 3=-9(LC 1), 2=-95(LC 12), 4=-29(LC 1)
Max Grav 3=16(LC 12), 2=264(LC 1), 4=30(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, 2, 4.

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Date:

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J2A	Jack-Open	1	1	T22308734
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:18 2020 Page 1
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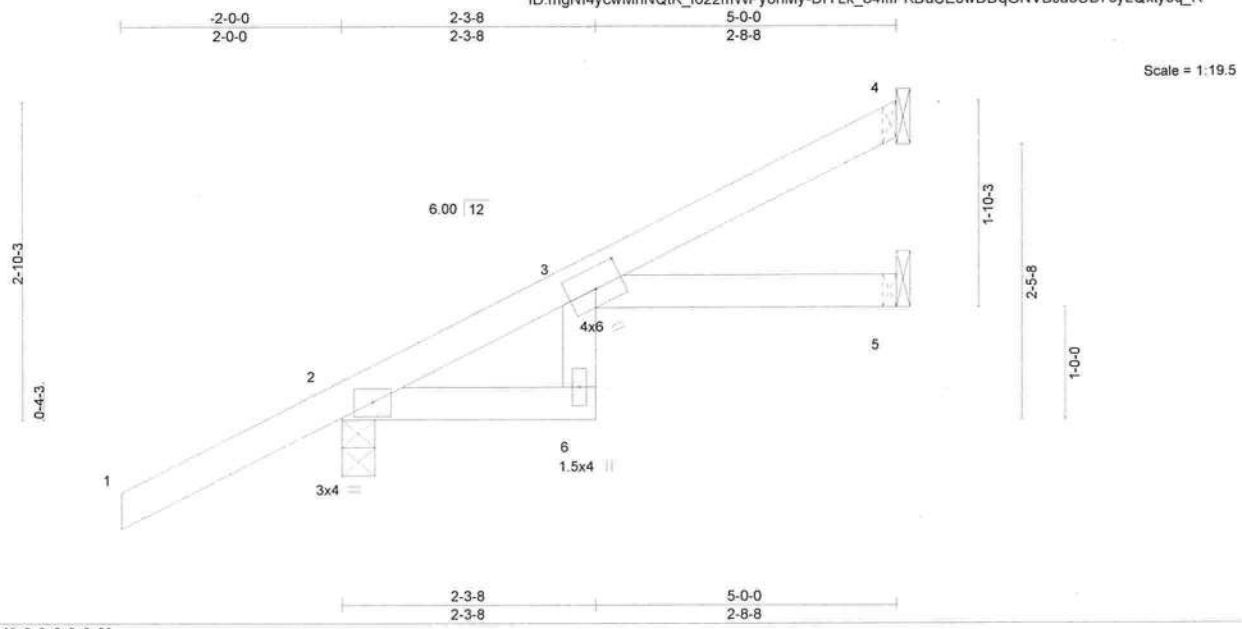

Plate Offsets (X,Y)-- [3:0-3-0,0-2-3]

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	0.34	Vert(LL)	0.04	3	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.06	3	>963	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 21 lb	FT = 20%

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

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=96(LC 12)
Max Uplift 4=-17(LC 12), 2=-47(LC 12)
Max Grav 4=107(LC 1), 2=342(LC 1), 5=81(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.

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Job	Truss	Truss Type	Qty	Ply	Thornwood 25	T22308735
THORNWOOD_25	J2B	Jack-Open	10	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:19 2020 Page 1
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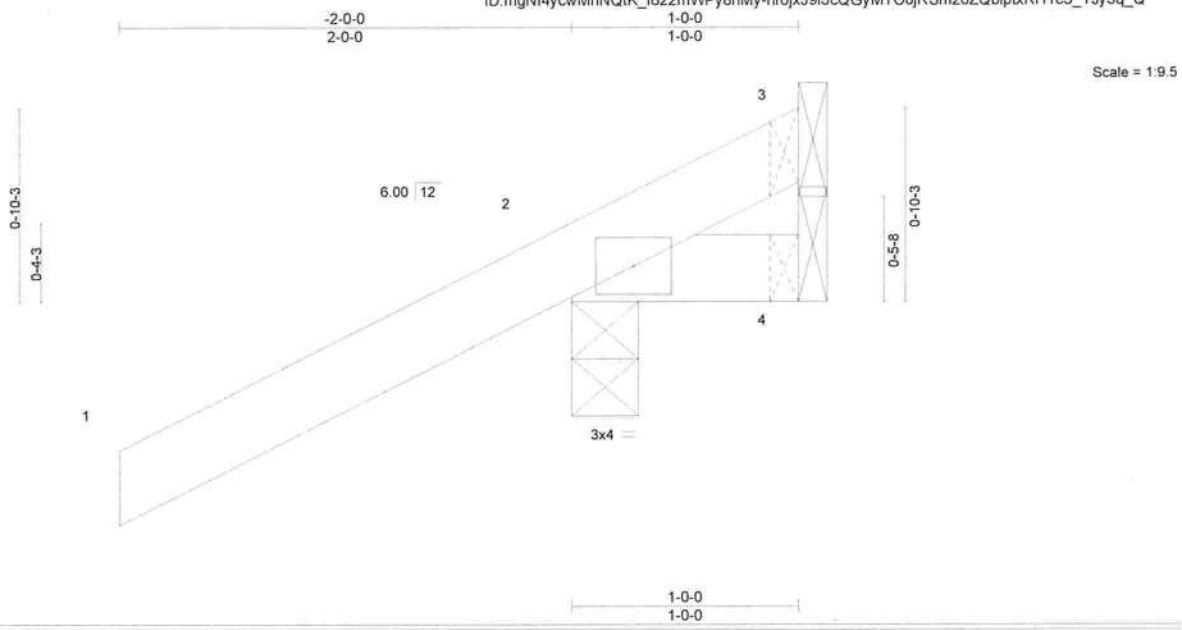

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J2C	Jack-Open	2	1	T22308736
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:20 2020 Page 1
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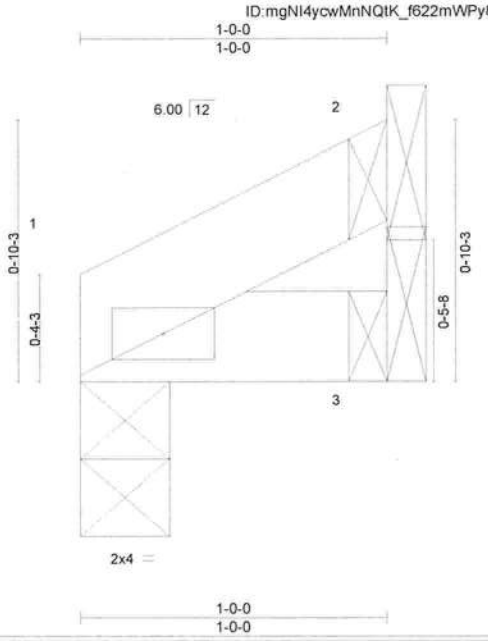

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.01	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 3 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 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=12(LC 12)
Max Uplift 2=-4(LC 12)
Max Grav 1=40(LC 1), 2=22(LC 1), 3=17(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.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J3	Jack-Open	9	1	T22308737
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:20 2020 Page 1
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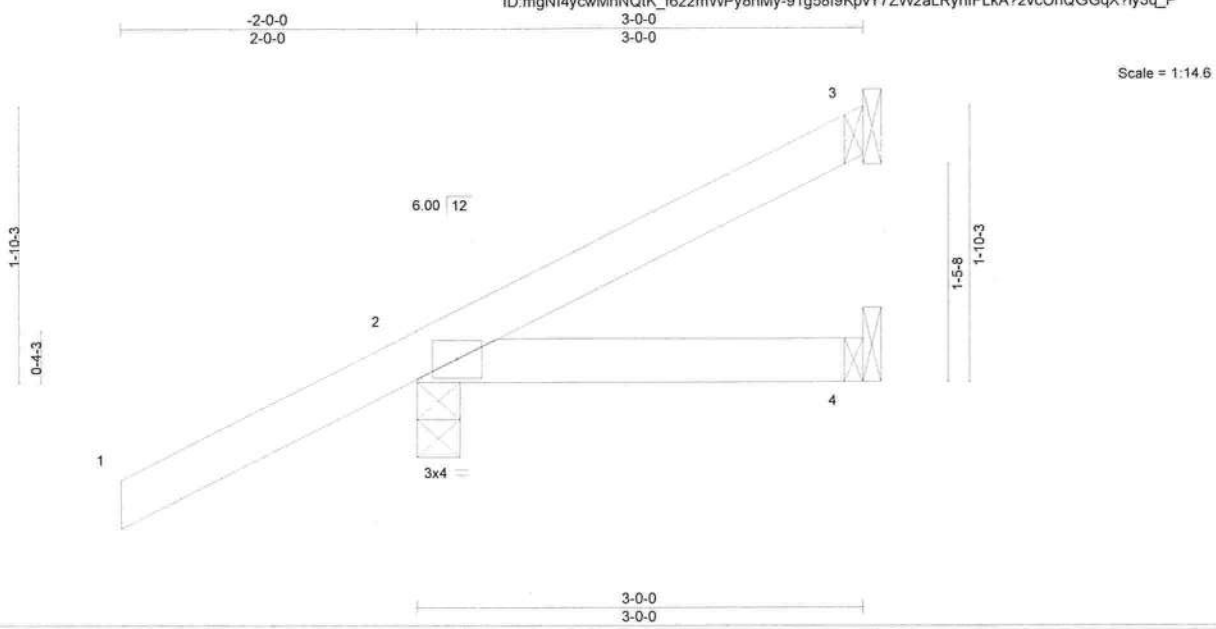

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 13 lb	FT = 20%

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

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

REACTIONS. (size) 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.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J3A	Jack-Open	1	1	T22308738
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:21 2020 Page 1
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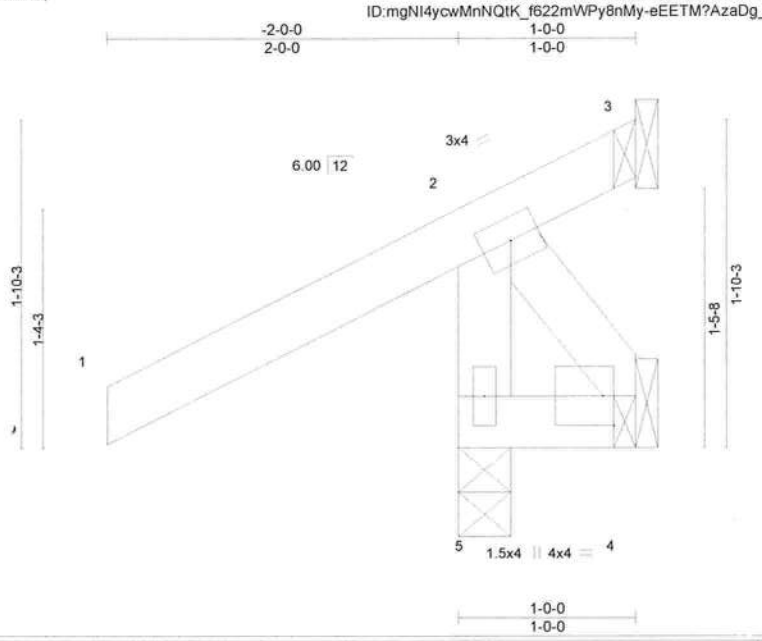

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 10 lb	FT = 20%

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

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

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=42(LC 11)
Max Uplift 5=-93(LC 12), 3=-139(LC 1), 4=-45(LC 12)
Max Grav 5=327(LC 1), 3=85(LC 12), 4=22(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-318/235

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) 5, 4 except (jt=lb) 3=139.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J3B	Jack-Open	1	1	T22308739
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:22 2020 Page 1
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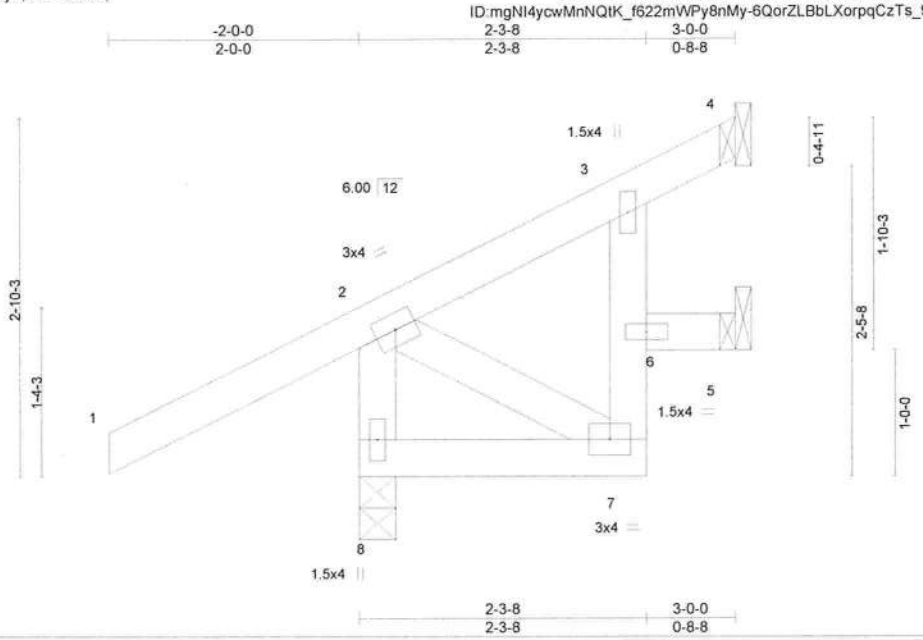

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.01	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%

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

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

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=95(LC 12)
Max Uplift 8=-39(LC 12), 4=-18(LC 12)
Max Grav 8=290(LC 1), 4=65(LC 17), 5=16(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-8=-270/164

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) 8, 4.

Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
December 30,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ***ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information*** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J4	Jack-Open	7	1	T22308740
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:22 2020 Page 1
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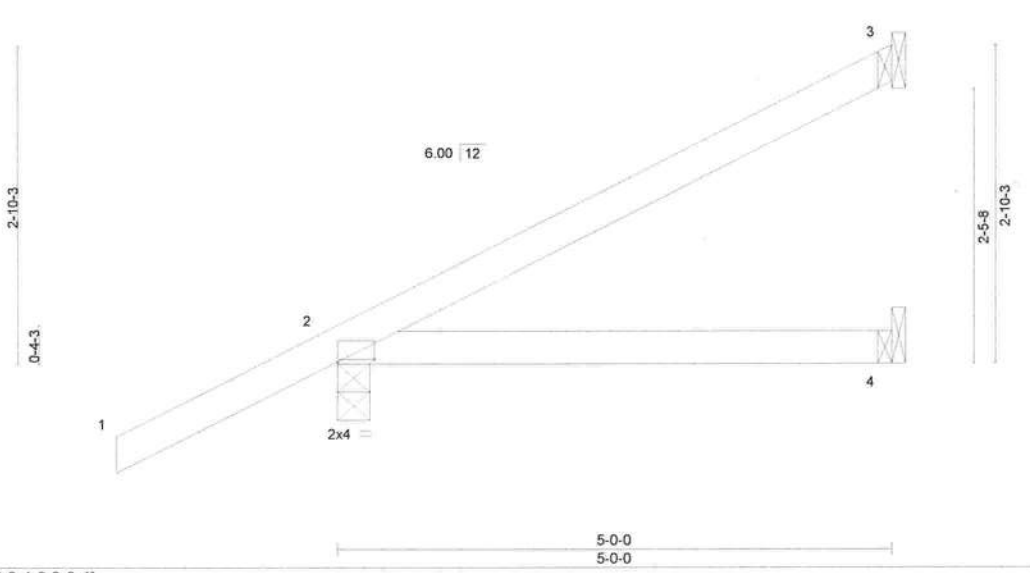

Plate Offsets (X,Y)-- [2:0-4-0,0-0-4]

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	0.26	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 = 20%

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

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

REACTIONS. (size) 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.

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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Thornwood 25
THORNWOOD_25	J4C	Jack-Open	1	1	T22308741
					Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Dec 30 09:08:23 2020 Page 1
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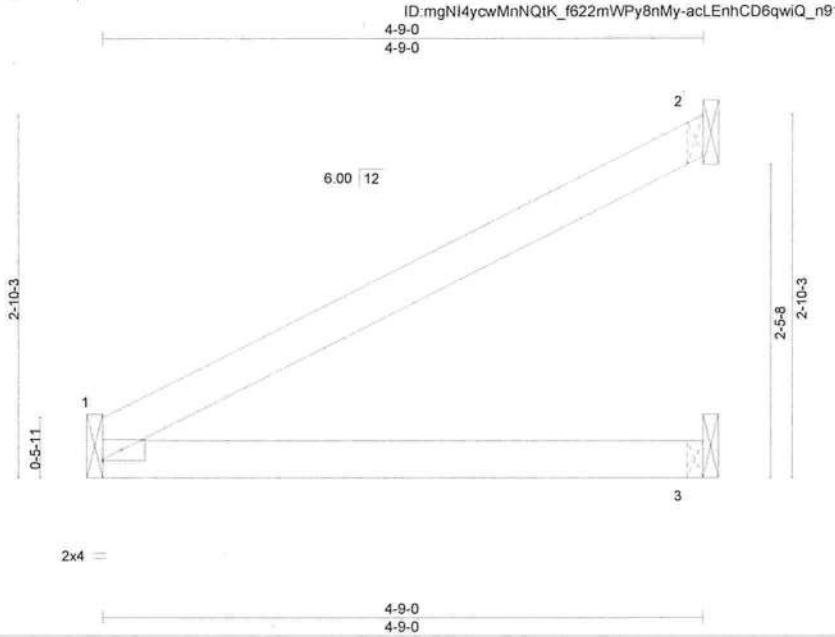

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	0.03	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.05	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 15 lb	FT = 20%

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

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

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=56(LC 12)
Max Uplift 2=-33(LC 12)
Max Grav 1=188(LC 1), 2=128(LC 1), 3=87(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.

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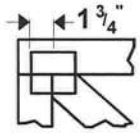
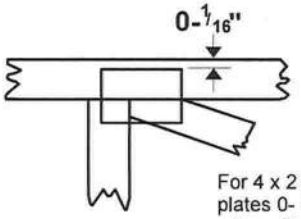
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

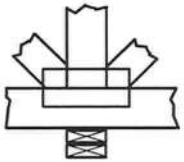
4 x 4

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

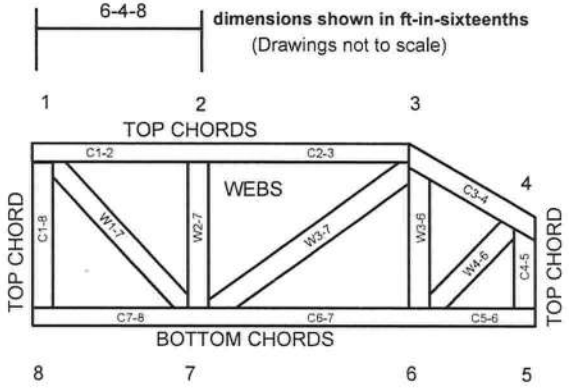


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.

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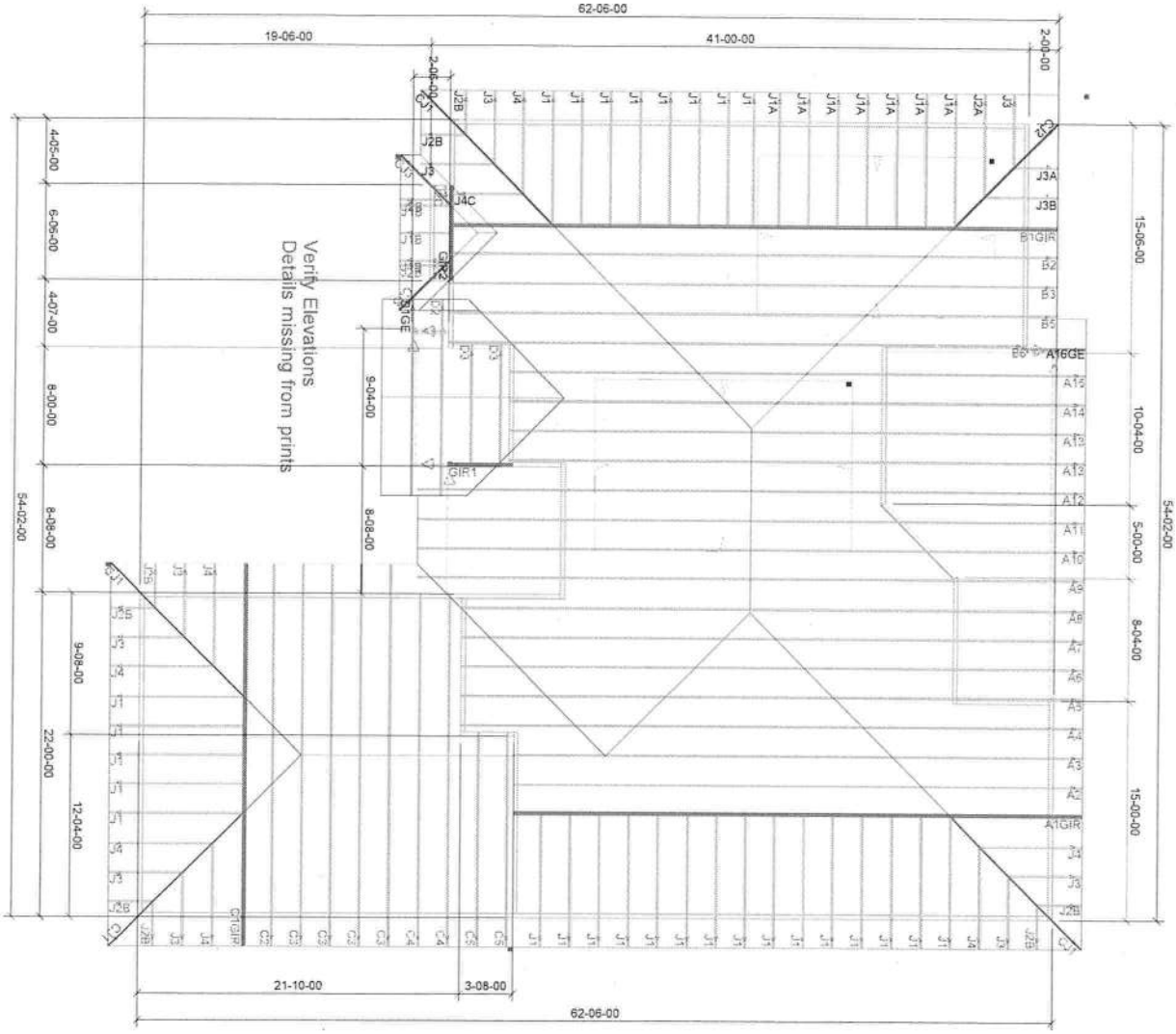
MiTek

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/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.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



Thornwood 25

Roof Loading	Client: DWC Contracting
TC Live: 20.00 psf	Date: 12/15/2020
TC Dead: 10.00 psf	Quote Date: / /
BC Live: 0.00 psf	Seal Date: / /
BC Dead: 10.00 psf	Designer: Stephanie Ramirez
Spacing: 2.00 ft O.C.	Job Number: 1220-033

Mayo Truss Company Inc.

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