



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

RE: Townsend - Townsend

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City 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: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 52 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	T26515488	A1	1/13/22	23	T26515510	CJ02	1/13/22
2	T26515489	A2	1/13/22	24	T26515511	CJ03	1/13/22
3	T26515490	A3	1/13/22	25	T26515512	CJ04	1/13/22
4	T26515491	A4	1/13/22	26	T26515513	CJ05	1/13/22
5	T26515492	A5	1/13/22	27	T26515514	D1GIR	1/13/22
6	T26515493	A6	1/13/22	28	T26515515	D2	1/13/22
7	T26515494	A7	1/13/22	29	T26515516	D3GIR	1/13/22
8	T26515495	A8	1/13/22	30	T26515517	E1GIR	1/13/22
9	T26515496	A9	1/13/22	31	T26515518	H1	1/13/22
10	T26515497	A10	1/13/22	32	T26515519	H2	1/13/22
11	T26515498	A11	1/13/22	33	T26515520	H3	1/13/22
12	T26515499	A12GIR	1/13/22	34	T26515521	J1	1/13/22
13	T26515500	B1GIR	1/13/22	35	T26515522	J1A	1/13/22
14	T26515501	B2	1/13/22	36	T26515523	J1B	1/13/22
15	T26515502	B3	1/13/22	37	T26515524	J1C	1/13/22
16	T26515503	B4	1/13/22	38	T26515525	J2	1/13/22
17	T26515504	B5	1/13/22	39	T26515526	J2C	1/13/22
18	T26515505	C1GIR	1/13/22	40	T26515527	J3	1/13/22
19	T26515506	C2	1/13/22	41	T26515528	J3A	1/13/22
20	T26515507	C3	1/13/22	42	T26515529	J3C	1/13/22
21	T26515508	C4GIR	1/13/22	43	T26515530	J4	1/13/22
22	T26515509	CJ01	1/13/22	44	T26515531	J4A	1/13/22



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

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2023.

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



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

January 13, 2022

Lee, Julius

1 of 2



RE: Townsend - Townsend

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

No.	Seal#	Truss Name	Date
45	T26515532	M1GE	1/13/22
46	T26515533	M2	1/13/22
47	T26515534	PB01	1/13/22
48	T26515535	PB02	1/13/22
49	T26515536	PB03	1/13/22
50	T26515537	PB04	1/13/22
51	T26515538	PB06	1/13/22
52	T26515539	PB07	1/13/22

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515488
TOWNSEND	A1	Roof Special	1	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:09:40 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-OaCsiLrvPptshYpMM15NkJX56ErFMretVC5mgHzw8d9

4-5-5 11-0-0 14-0-0 19-4-8 24-9-0 30-8-0 35-9-8 42-0-0 44-0-0
4-5-5 6-6-11 3-0-0 5-4-8 5-4-8 5-11-0 5-1-8 6-2-8 2-0-0

Scale = 1:79.0

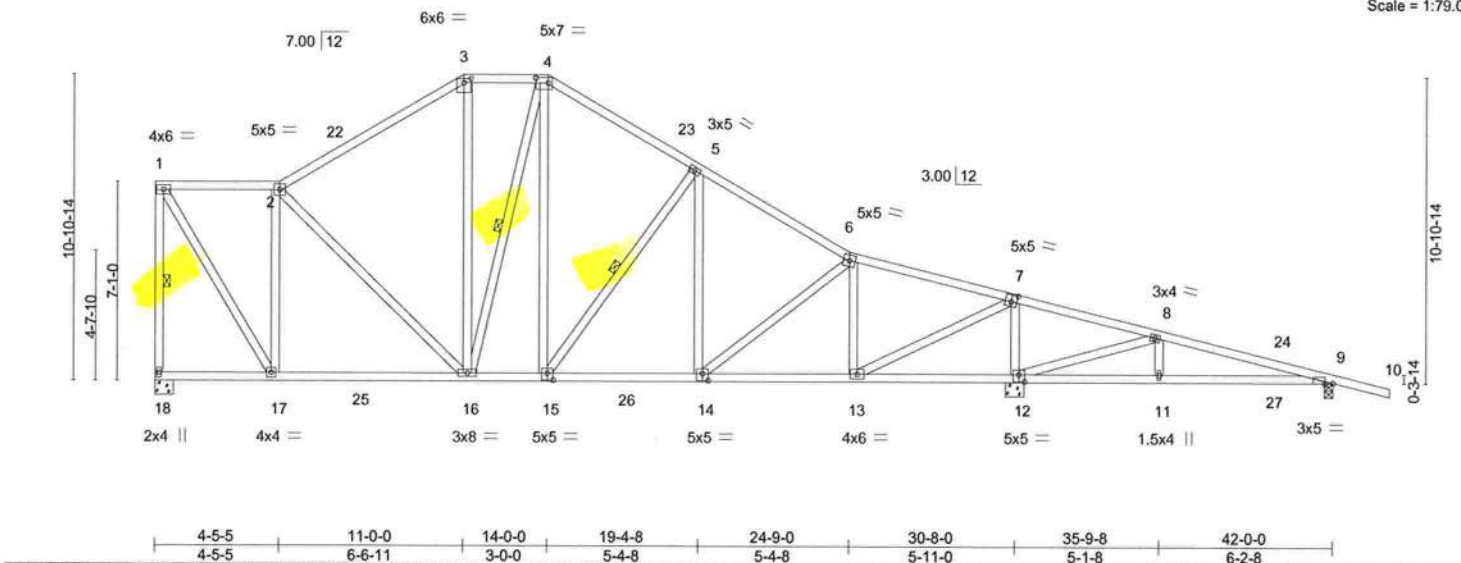


Plate Offsets (X,Y)-- [3:0-3-0,0-1-12], [4:0-5-4,0-2-4], [7:0-2-8,0-3-0], [9:0-3-4,Edge], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.12	14-15	>999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.23	14-15	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	9	n/a	n/a	
BCDL	10.0	Code FBC2020/TP12014		Matrix-AS							Weight: 286 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 1-18, 4-16, 5-15

REACTIONS. (size) 18=0-8-0, 12=0-8-0, 9=0-3-8
Max Horz 18=-270(LC 10)
Max Uplift 12=-113(LC 12), 9=-132(LC 12)
Max Grav 18=1303(LC 18), 12=2117(LC 2), 9=380(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1253/135, 1-2=-755/140, 2-3=-1071/201, 3-4=-867/227, 4-5=-1103/223,
5-6=-1390/151, 6-7=-1176/13, 7-8=-314/966, 8-9=-171/373
BOT CHORD 17-18=-135/278, 16-17=0/865, 15-16=0/939, 14-15=0/1152, 13-14=0/1136,
12-13=-774/360, 11-12=-322/147, 9-11=-322/147
WEBS 1-17=-133/1363, 2-17=-914/200, 3-16=0/281, 4-15=-32/504, 5-15=-485/86,
6-13=-711/203, 7-13=-260/2074, 7-12=-1678/269, 8-12=-1064/735, 8-11=-249/259

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-5-5, Interior(1) 4-5-5 to 11-0-0, Exterior(2E) 11-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 18-2-6, Interior(1) 18-2-6 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 12 and 132 lb uplift at joint 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.



Julius Lee PE No.34869
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6904 Parke East Blvd. Tampa FL 33610
Date:

January 13,2022



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



6904 Parke East Blvd.
Tampa, FL 36610

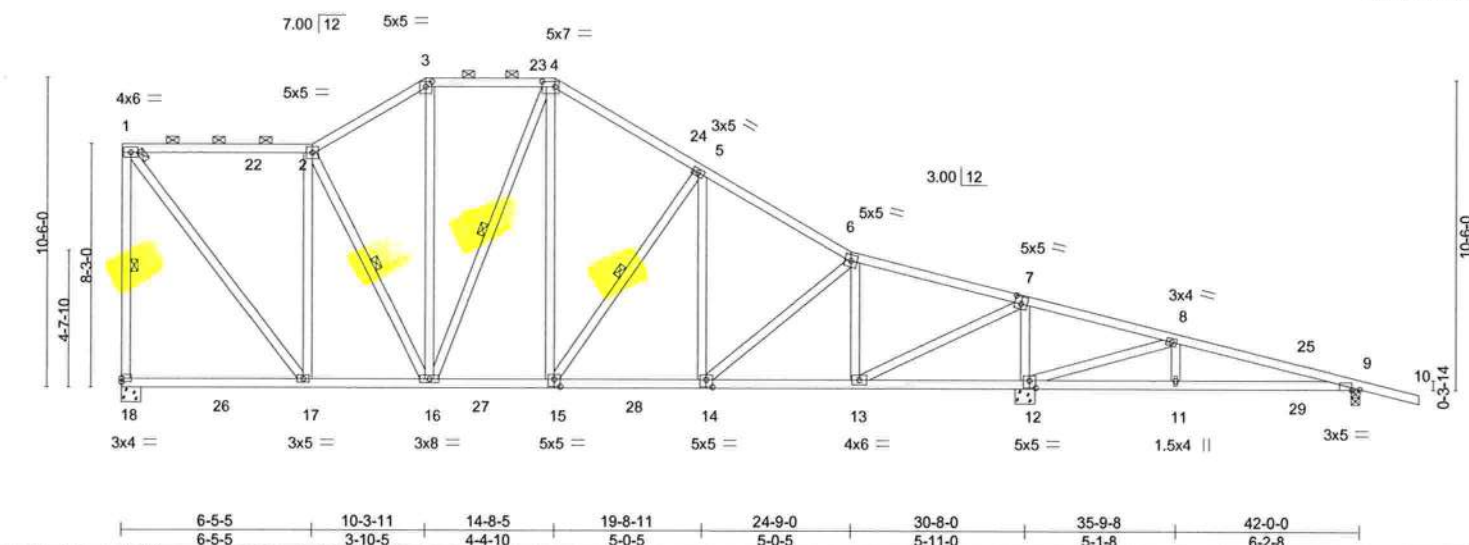
Job TOWNSEND	Truss A2	Truss Type Piggyback Base	Qty 1	Ply 1	Townsend T26515489
Job Reference (optional)					

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:00 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGczz2QR-pRQQuB5RhZP05dKCXES3YXMUMIhx2rUp5JxqM7zw8cr

6-5-5	10-3-11	14-8-5	19-8-11	24-9-0	30-8-0	35-9-8	42-0-0	44-0-0
6-5-5	3-10-5	4-4-10	5-0-5	5-0-5	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:75.3



LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.54	Vert(LL) -0.11	14-15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.57	Vert(CT) -0.21	14-15	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.93	Horz(CT) 0.02	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
									Weight: 289 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-6-15 max.): 1-2, 3-4.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 1-18, 2-16, 4-16, 5-15

REACTIONS. (size) 18=0-8-0, 12=0-8-0, 9=0-3-8
Max Horz 18=-276(LC 10)
Max Uplift 12=-111(LC 12), 9=-132(LC 12)
Max Grav 18=1340(LC 18), 12=2131(LC 2), 9=377(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-1199/166, 1-2=-848/166, 2-3=-1052/218, 3-4=-875/221, 4-5=-1163/218, 5-6=-1415/148, 6-7=-1185/13, 7-8=-313/980, 8-9=-163/373
BOT CHORD 17-18=-152/319, 16-17=0/938, 15-16=0/984, 14-15=0/1166, 13-14=0/1145, 12-13=-786/362, 11-12=-322/139, 9-11=-322/139
WEBS 1-17=-144/1322, 2-17=-840/198, 3-16=0/330, 4-16=-263/69, 4-15=-11/542, 5-15=-432/78, 6-13=-717/202, 7-13=-263/2098, 7-12=-1696/271, 8-12=-1064/735, 8-11=-249/259

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl. GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-4-2, Interior(1) 4-4-2 to 10-3-11, Exterior(2E) 10-3-11 to 14-8-5, Exterior(2R) 14-8-5 to 18-10-12, Interior(1) 18-10-12 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 12 and 132 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

January 13,2022



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



6904 Parke East Blvd.
Tampa, FL 36610

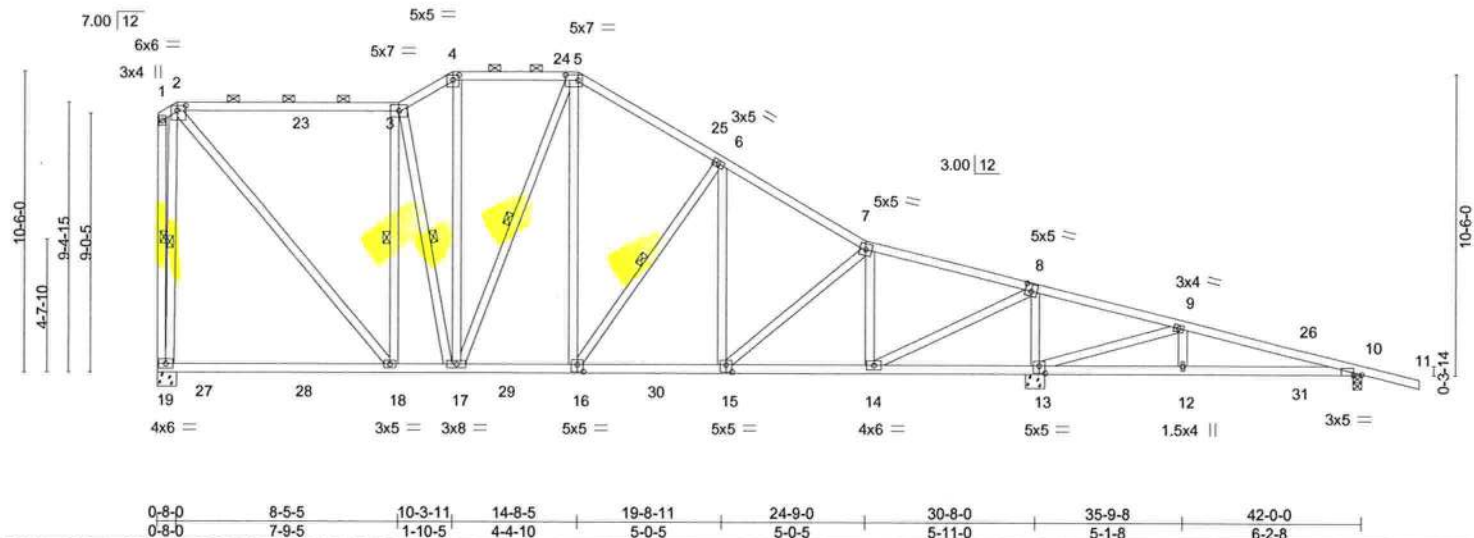
Job TOWNSEND	Truss A3	Truss Type Piggyback Base	Qty 1	Ply 1	Townsend T26515490
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:02 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-lpYAJt6iDafKwUbeFUXdySmA6JsWrM6ZdQxR?zw8cp

0-8-0	8-5-5	10-3-11	14-8-5	19-8-11	24-9-0	30-8-0	35-9-8	42-0-0	44-0-0
0-8-0	7-9-5	1-10-5	4-4-10	5-0-5	5-0-5	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:77.5



Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	A4	Piggyback Base	1	1		T26515491
Job Reference (optional)						

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:03 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-D75ZXC7K_unby43nCN0mAA_w_WehFE3FnH9UzRzw8co

4-5-12	8-8-0	16-3-11	20-8-5	25-8-11	30-9-0	36-8-0	41-9-8	48-0-0	50-0-0
4-5-12	4-2-4	7-7-11	4-4-10	5-0-5	5-0-5	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:87.5

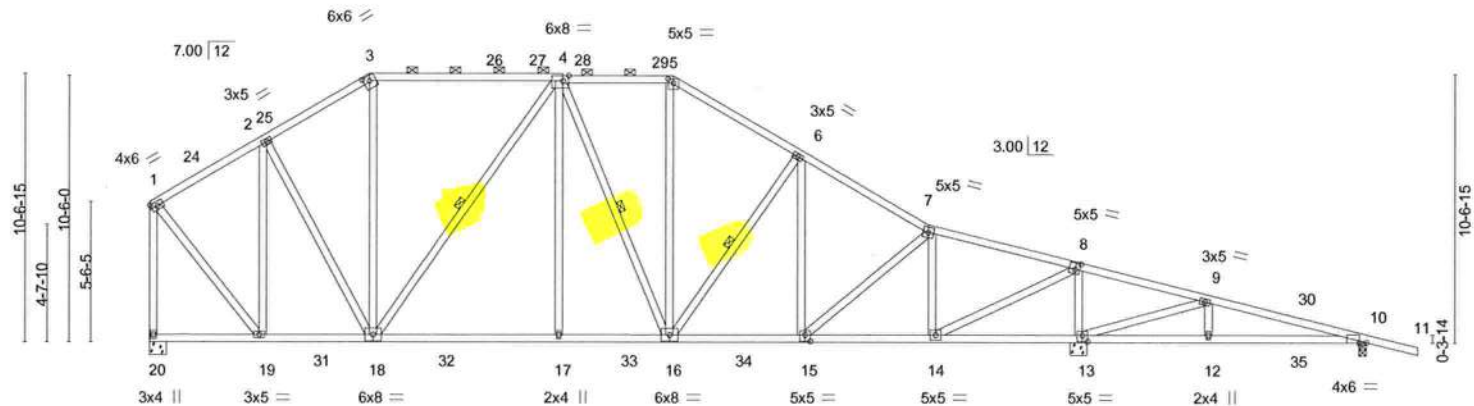


Plate Offsets (X,Y)--	[3:0-3-0,0-2-5], [4:0-2-12,Edge], [5:0-2-8,0-2-1], [8:0-2-4,0-3-0], [10:0-3-4,Edge], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	-0.20 17-18	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.36 17-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.05 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-AS					Weight: 332 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x4 SP No.2 *Except*	Structural wood sheathing directly applied, except end verticals, and
3-4: 2x4 SP No.1	2-0-0 oc purlins (3-5-6 max.): 3-5.
BOT CHORD	BOT CHORD
2x4 SP No.2	Rigid ceiling directly applied.
WEBS	WEBS
2x4 SP No.2	1 Row at midpt 4-18, 4-16, 6-16

REACTIONS.	(size) 20=0-8-0, 13=0-8-0, 10=0-3-8
	Max Horz 20=-247(LC 10)
	Max Uplift 13=-111(LC 12), 10=-133(LC 12)
	Max Grav 20=1607(LC 17), 13=2449(LC 2), 10=345(LC 22)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1020/173, 2-3=-1266/246, 3-4=-1074/250, 4-5=-1387/248, 5-6=-1653/252, 6-7=-1874/180, 7-8=-1511/37, 8-9=-327/1119, 9-10=-35/360, 1-20=-1548/169
BOT CHORD	18-19=0/922, 17-18=0/1457, 16-17=0/1452, 15-16=0/1544, 14-15=0/1467, 13-14=-893/367, 12-13=-309/15, 10-12=-309/15
WEBS	2-19=-764/158, 2-18=-26/534, 3-18=0/308, 4-18=-673/31, 4-17=0/433, 5-16=-9/526, 6-16=-381/76, 7-14=-934/216, 8-14=-293/2574, 8-13=-2028/292, 9-13=-1070/736, 9-12=-249/260, 1-19=-113/1249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 8-8-0, Exterior(2R) 8-8-0 to 13-5-10, Interior(1) 13-5-10 to 20-8-5, Exterior(2R) 20-8-5 to 25-8-11, Interior(1) 25-8-11 to 50-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 13 and 133 lb uplift at joint 10.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

January 13,2022

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Job TOWNSEND	Truss A5	Truss Type Piggyback Base	Qty 6	Ply 1	Townsend T26515492
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:05 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-9ODJyu9aWV1JBODAJn2EFb4KfJNSj7ZYFbeb1Kzw8cm

4-4-15	8-6-5	14-7-5	20-8-5	25-8-11	30-9-0	36-8-0	41-9-8	48-0-0	50-0-0
4-4-15	4-1-7	6-1-0	6-1-0	5-0-5	5-0-5	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:85.9

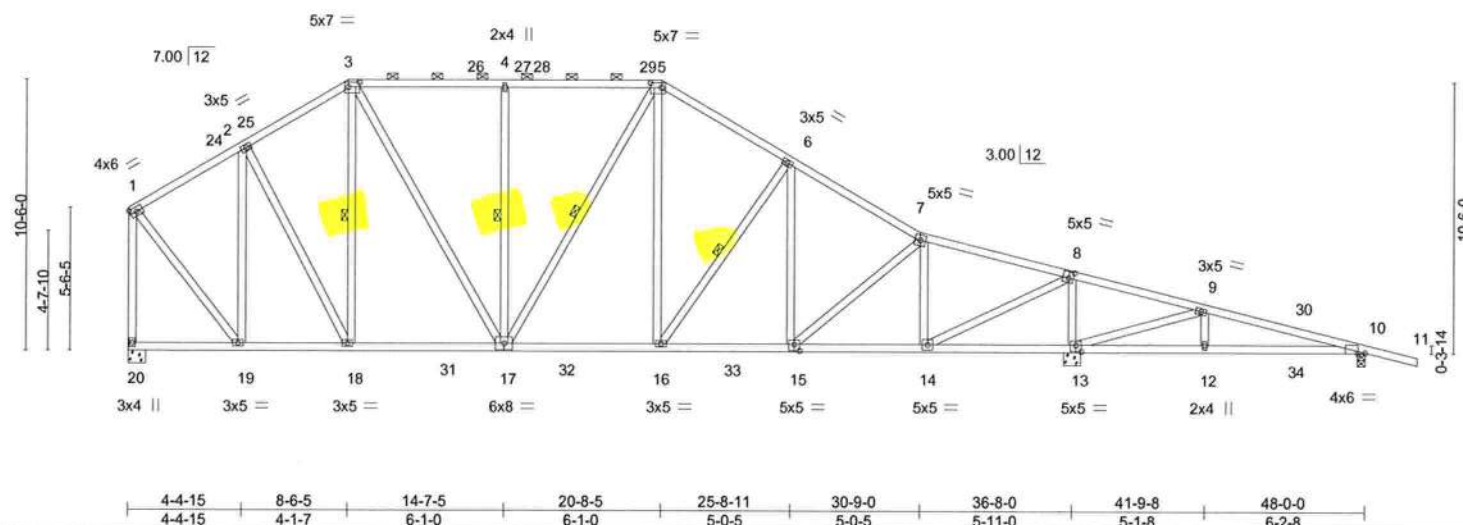


Plate Offsets (X,Y) --	[3:0-5-4,0-2-4], [5:0-5-4,0-2-4], [8:0-2-4,0-3-0], [10:0-3-4,Edge], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.13 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.23 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
								Weight: 332 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (4-9-6 max.): 3-5.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 3-18, 4-17, 5-17, 6-16

REACTIONS. (size) 20=0-8-0, 13=0-8-0, 10=0-3-8
Max Horz 20=-246(LC 10)
Max Uplift 13=-112(LC 12), 10=-133(LC 12)
Max Grav 20=1581(LC 17), 13=2446(LC 2), 10=341(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-988/174, 2-3=-1268/242, 3-4=-1354/264, 4-5=-1354/264, 5-6=-1658/246,
6-7=-1859/179, 7-8=-1495/37, 8-9=-331/1130, 9-10=-20/358, 1-20=-1511/172
BOT CHORD 18-19=0/898, 17-18=0/1114, 16-17=0/1388, 15-16=0/1532, 14-15=0/1452,
13-14=-904/371, 12-13=-306/1, 10-12=-306/1
WEBS 2-19=-834/148, 2-18=-5/561, 3-18=-286/76, 3-17=-75/686, 4-17=-408/133, 5-16=0/590,
6-16=-350/83, 7-14=-934/216, 8-14=-294/2572, 8-13=-2027/292, 9-13=-1070/736,
9-12=-249/260, 1-19=-119/1223

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 8-6-5, Exterior(2R) 8-6-5 to 13-3-15, Interior(1) 13-3-15 to 20-8-5, Exterior(2R) 20-8-5 to 25-8-11, Interior(1) 25-8-11 to 50-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 13 and 133 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

January 13,2022



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

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



6904 Parke East Blvd.
Tampa, FL 33610

Job TOWNSEND	Truss A6	Truss Type Piggyback Base	Qty 1	Ply 1	Townsend T26515493
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:06 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-danh9E9CHo9ApYoMvZToocVPjhhSapiTFO8amzw8cl

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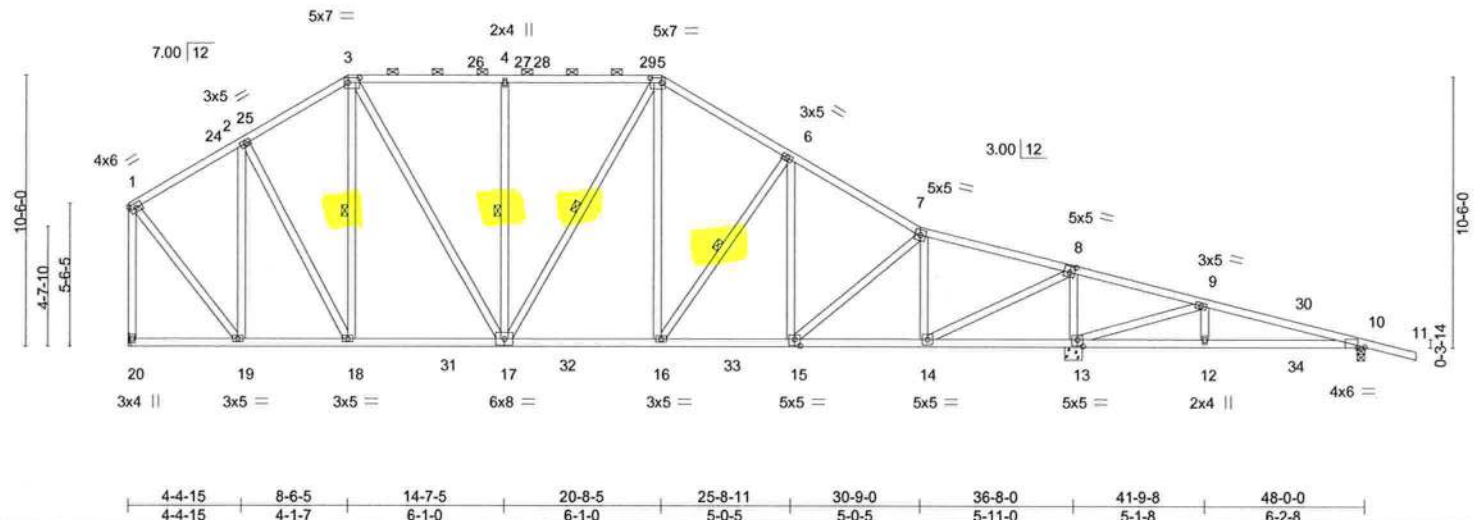


Plate Offsets (X,Y)-- [3:0-5-4,0-2-4], [5:0-5-4,0-2-4], [8:0-2-4,0-3-0], [10:0-3-4,Edge], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	-0.13 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.23 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 332 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SP No.2	BOT CHORD	2-0-0 oc purlins (4-9-6 max.): 3-5.
WEBS	2x4 SP No.2	WEBS	Rigid ceiling directly applied.
			1 Row at midpt 3-18, 4-17, 5-17, 6-16

REACTIONS. (size) 20=Mechanical, 13=0-8-0, 10=0-3-8
Max Horz 20=-246(LC 10)
Max Uplift 13=-112(LC 12), 10=-133(LC 12)
Max Grav 20=1581(LC 17), 13=2446(LC 2), 10=341(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-988/174, 2-3=-1268/242, 3-4=-1354/264, 4-5=-1354/264, 5-6=-1658/246,
6-7=-1859/179, 7-8=-1495/37, 8-9=-331/1130, 9-10=-20/358, 1-20=-1511/172
BOT CHORD 18-19=0/898, 17-18=0/1114, 16-17=0/1388, 15-16=0/1532, 14-15=0/1452,
13-14=-904/371, 12-13=-306/1, 10-12=-306/1
WEBS 2-19=-834/148, 2-18=-5/561, 3-18=-286/76, 3-17=-75/686, 4-17=-408/133, 5-16=0/590,
6-16=-350/83, 7-14=-934/216, 8-14=-294/2572, 8-13=-2027/292, 9-13=-1070/736,
9-12=-249/260, 1-19=-119/1223

- 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=48ft; eave=6ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 8-6-5, Exterior(2R) 8-6-5 to 13-3-15, Interior(1) 13-3-15 to 20-8-5, Exterior(2R) 20-8-5 to 25-8-11, Interior(1) 25-8-11 to 50-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 13 and 133 lb uplift at joint 10.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

January 13,2022

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515494
TOWNSEND	A7	Hip	1	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:07 2022 Page 1
ID:17j64rh3s7A1hKm7TqBkGCzz2QR-6nL3MaAq26H1RhNYRC4iK09fk72KB1Xriv7h6Dzw8ck

4-9-1	9-2-11	14-7-5	20-0-0	25-4-8	30-9-0	36-8-0	41-9-8	48-0-0	50-0-0
4-9-1	4-5-9	5-4-11	5-4-11	5-4-8	5-4-8	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:85.9

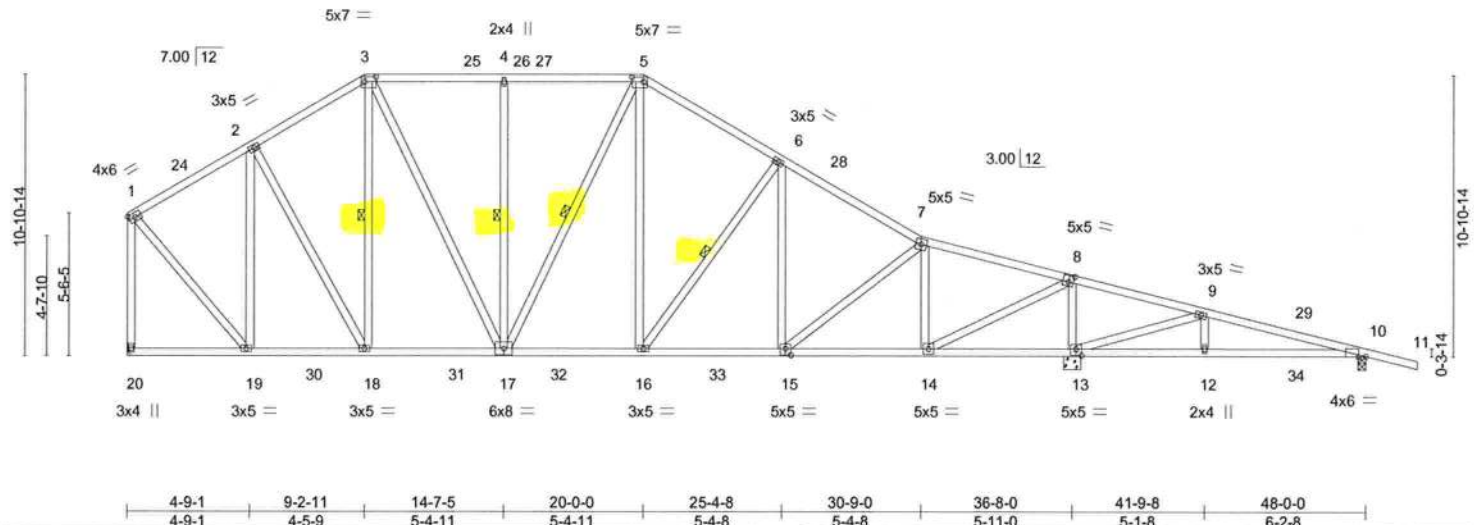


Plate Offsets (X,Y)--	[3:0-5-4,0-2-4], [5:0-5-4,0-2-4], [8:0-2-4,0-3-0], [10:0-3-4,Edge], [13:0-2-8,0-3-0], [15:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.12	15-16	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.22	15-16	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.85	Horz(CT)	0.04	13	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
								Weight: 336 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 3-18, 4-17, 5-17, 6-16

REACTIONS. (size) 20=Mechanical, 13=0-8-0, 10=0-3-8
Max Horz 20=-254(LC 10)
Max Uplift 13=-112(LC 12), 10=-133(LC 12)
Max Grav 20=1606(LC 17), 13=2450(LC 2), 10=342(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1051/191, 2-3=-1297/269, 3-4=-1308/285, 4-5=-1308/285, 5-6=-1627/269,
6-7=-1863/199, 7-8=-1501/47, 8-9=-338/1130, 9-10=-24/354, 1-20=-1535/187
BOT CHORD 18-19=0/954, 17-18=0/1137, 16-17=0/1361, 15-16=0/1532, 14-15=0/1457,
13-14=-904/376, 12-13=-299/5, 10-12=-299/5
WEBS 2-19=-764/161, 2-18=-4/481, 3-17=-86/623, 4-17=-358/131, 5-16=-1/615,
6-16=-402/103, 7-14=-930/225, 8-14=-309/2580, 8-13=-2032/302, 9-13=-1070/736,
9-12=-249/260, 1-19=-129/1248

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-9-1, Interior(1) 4-9-1 to 9-2-11, Exterior(2R) 9-2-11 to 16-0-2, Interior(1) 16-0-2 to 20-0-0, Exterior(2R) 20-0-0 to 26-9-7, Interior(1) 26-9-7 to 50-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 13 and 133 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

January 13,2022



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515495
TOWNSEND	A8	Hip	1	1		

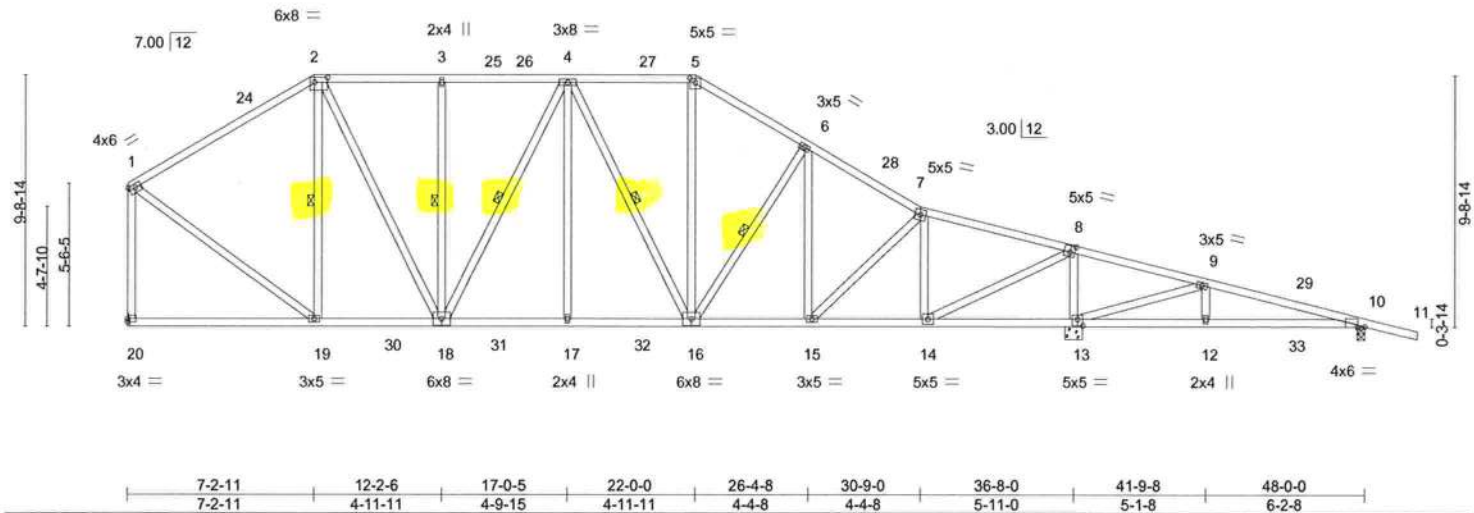
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:09 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-29TqnGC5ajXkg?WxYd6AQREzxlwF0W8ADcoA5zw8ci

7-2-11	12-2-6	17-0-5	22-0-0	26-4-8	30-9-0	36-8-0	41-9-8	48-0-0	50-0-0
7-2-11	4-11-11	4-9-15	4-11-11	4-4-8	4-4-8	5-11-0	5-1-8	6-2-8	2-0-0

Scale = 1:86.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.11 16-17	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.19 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 330 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 2-19, 3-18, 4-18, 4-16, 6-16

REACTIONS. (size) 20=Mechanical, 13=0-8-0, 10=0-3-8
Max Horz 20=-231(LC 10)
Max Uplift 13=-112(LC 12), 10=-133(LC 12)
Max Grav 20=1579(LC 17), 13=2422(LC 2), 10=340(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1263/213, 2-3=-1352/262, 3-4=-1352/262, 4-5=-1417/244, 5-6=-1678/253,
6-7=-1837/180, 7-8=-1468/45, 8-9=-340/1117, 9-10=-15/351, 1-20=-1465/202
BOT CHORD 18-19=0/1077, 17-18=0/1543, 16-17=0/1543, 15-16=0/1520, 14-15=0/1425,
13-14=-894/378, 12-13=-297/0, 10-12=-297/0
WEBS 2-19=-469/157, 2-18=-93/808, 3-18=-302/106, 4-18=-385/16, 4-17=0/334, 4-16=-348/52,
5-16=-25/576, 6-16=-295/67, 7-14=-939/214, 8-14=-311/2528, 8-13=-1997/304,
9-13=-1070/736, 9-12=-249/260, 1-19=-106/1207

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=48ft; eave=6ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-11-6, Interior(1) 4-11-6 to 7-2-11, Exterior(2R) 7-2-11 to 14-0-2, Interior(1) 14-0-2 to 22-0-0, Exterior(2R) 22-0-0 to 28-9-7, Interior(1) 28-9-7 to 50-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 13 and 133 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

January 13,2022

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515496
TOWNSEND	A9	Hip	1	1		

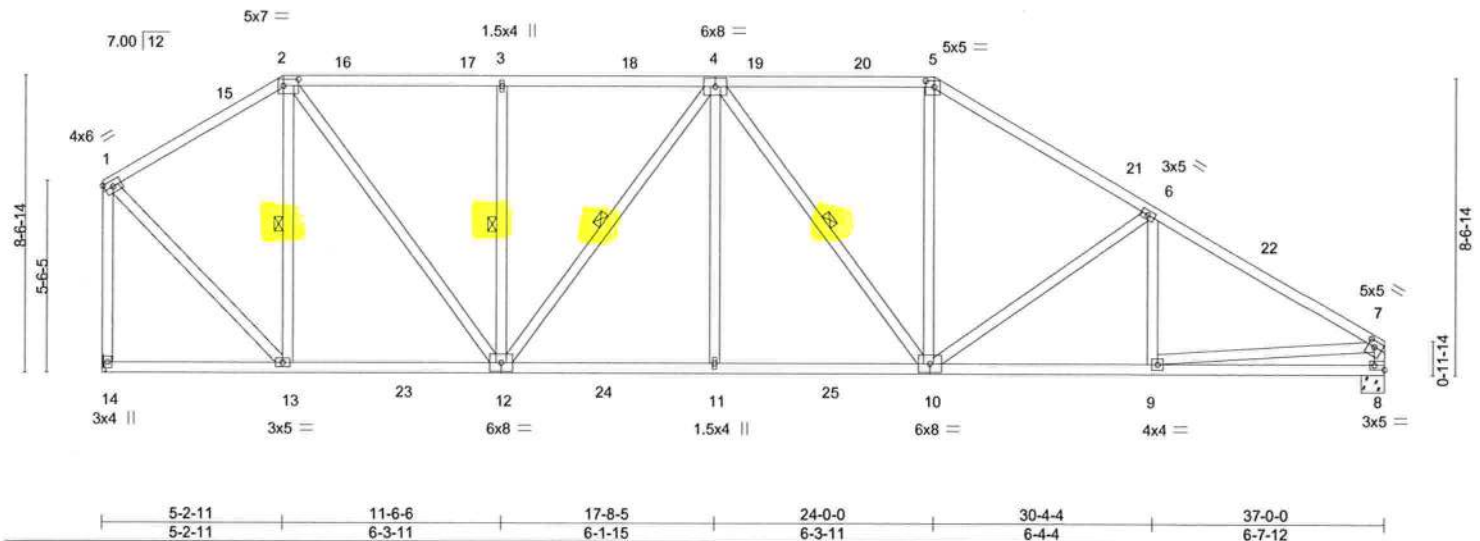
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:10 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-WM0C?cDjL1fbl9576LePyen9bk2ZOU7HOtMMjYzw8ch

5-2-11	11-6-6	17-8-5	24-0-0	30-4-4	37-0-0
5-2-11	6-3-11	6-1-15	6-3-11	6-4-4	6-7-12

Scale: 3/16"=1'



8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:09:44 2022 Page 1
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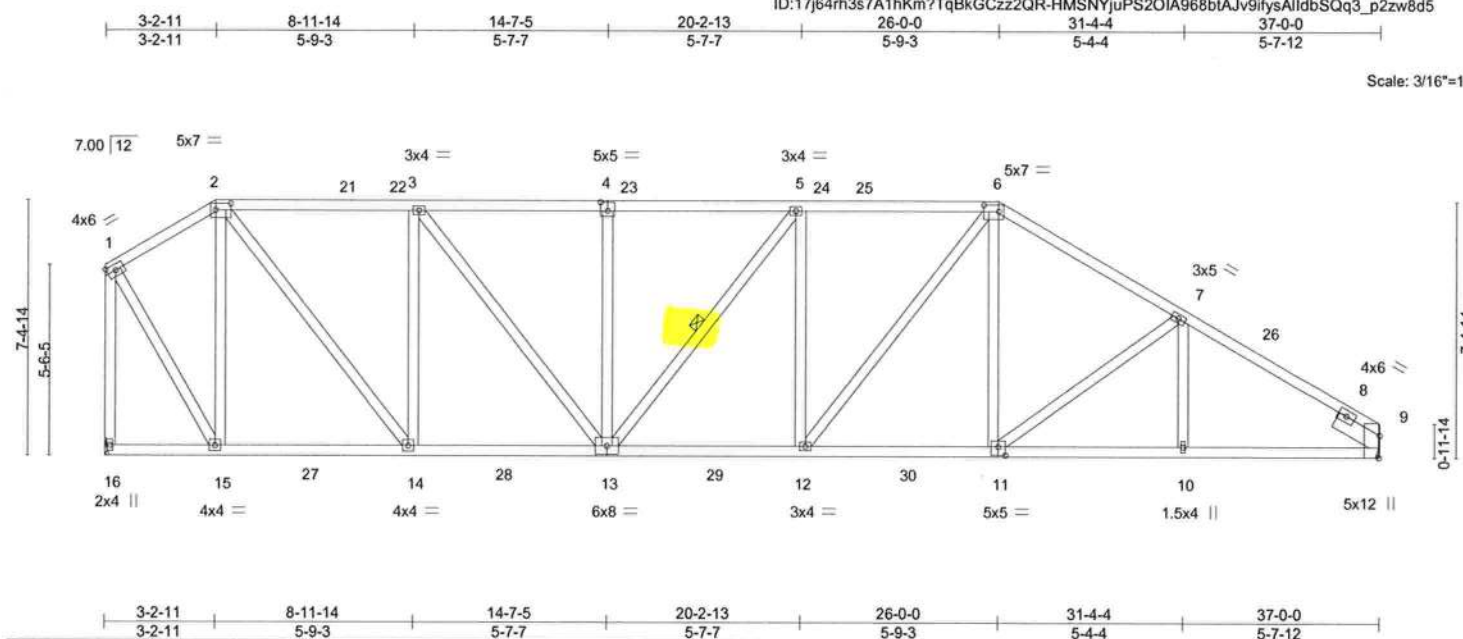


Plate Offsets (X,Y)--		[2:0-5-4,0-2-4], [4:0-2-8,0-3-0], [6:0-5-4,0-2-4], [9:0-7-13,Edge], [11:0-2-8,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.95	Vert(LL)	-0.18 11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.33 11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.13 9	n/a	n/a		
BCDL	10.0	Code FBC2020/TP12014		Matrix-AS						Weight: 251 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 SS
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-6-0

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

REACTIONS. (size) 9=Mechanical, 16=Mechanical
Max Horz 16=-187(LC 10)
Max Uplift 16=-1(LC 12)
Max Grav 9=1692(LC 18). 16=1673(LC 19)

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

TOP CHORD 1-2=-893/76, 2-3=-1644/78, 3-4=-2079/79, 4-5=-2079/79, 5-6=-2225/79, 6-7=-2199/75,
7-9=-2452/29, 1-16=-1635/23

BOT CHORD 14-15=0/766, 13-14=0/1684, 12-13=0/2209, 11-12=0/1828, 10-11=0/2000, 9-10=0/2000

WEBS 2-15=-978/60, 2-14=-3/1518, 3-14=-908/82, 3-13=-1/726, 4-13=-264/52, 5-12=-321/78,
6-12=0/652, 6-11=0/336, 1-15=0/1365

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=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(2E) 0-1-12 to 3-2-11, Exterior(2R) 3-2-11 to 8-5-7, Interior(1) 8-5-7 to 26-0-0, Exterior(2R) 26-0-0 to 31-4-4, Interior(1) 31-4-4 to 37-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 16.
- 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:

January 13, 2022



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6904 Parke East Blvd.
Tampa, FL 36610

Job TOWNSEND	Truss A11	Truss Type Roof Special	Qty 1	Ply 1	Townsend T26515498
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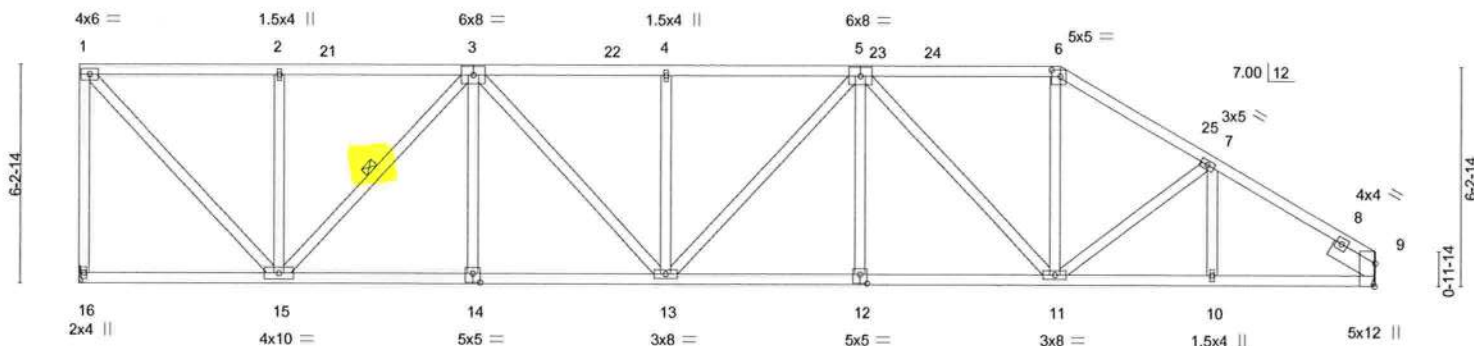
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:09:45 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-1Y0lI3v1DMW8oJhK8bhYRNfQ7FT116kceUoXLUzw8d4

5-8-4	11-2-12	16-9-4	22-3-12	28-0-0	32-4-4	37-0-0
5-8-4	5-6-8	5-6-8	5-6-8	5-8-4	4-4-4	4-7-12

Scale = 1:63.2



5-8-4	11-2-12	16-9-4	22-3-12	28-0-0	32-4-4	37-0-0
5-8-4	5-6-8	5-6-8	5-6-8	5-8-4	4-4-4	4-7-12

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

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 0.93	Vert(LL)	-0.14	12-13	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.31	12-13	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.12	9	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
								Weight: 236 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
6-9: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
9-12: 2x4 SP No.1
WEBS 2x4 SP No.2
SLIDER Right 2x6 SP No.2 1-6-0

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-15

REACTIONS. (size) 16=Mechanical, 9=Mechanical
Max Horz 16=-174(LC 10)
Max Uplift 16=-1(LC 12)
Max Grav 16=1474(LC 1), 9=1474(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-1423/61, 1-2=-1212/92, 2-3=-1212/92, 3-4=-2309/114, 4-5=-2309/114,
5-6=-1742/111, 6-7=-2025/105, 7-9=-2100/73
BOT CHORD 14-15=0/1921, 13-14=0/1921, 12-13=0/2190, 11-12=0/2190, 10-11=-16/1701,
9-10=-16/1701
WEBS 1-15=-51/1754, 2-15=-396/93, 3-15=-1041/43, 3-13=-38/569, 4-13=-410/89,
5-11=-658/10, 6-11=0/624

NOTES-

- 1) Wind: ASCE 7-16; 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(2E) 0-1-12 to 3-10-2, Interior(1) 3-10-2 to 28-0-0, Exterior(2R) 28-0-0 to 31-8-6, Interior(1) 31-8-6 to 37-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 16.
- 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 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	A12GIR	Roof Special Girder	1	2		T26515499

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

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5-1-3	10-0-9	15-0-0	19-11-7	24-10-13	30-0-0	33-6-0	37-0-0
5-1-3	4-11-7	4-11-7	4-11-7	4-11-7	5-1-3	3-6-0	3-6-0

Scale = 1:63.3

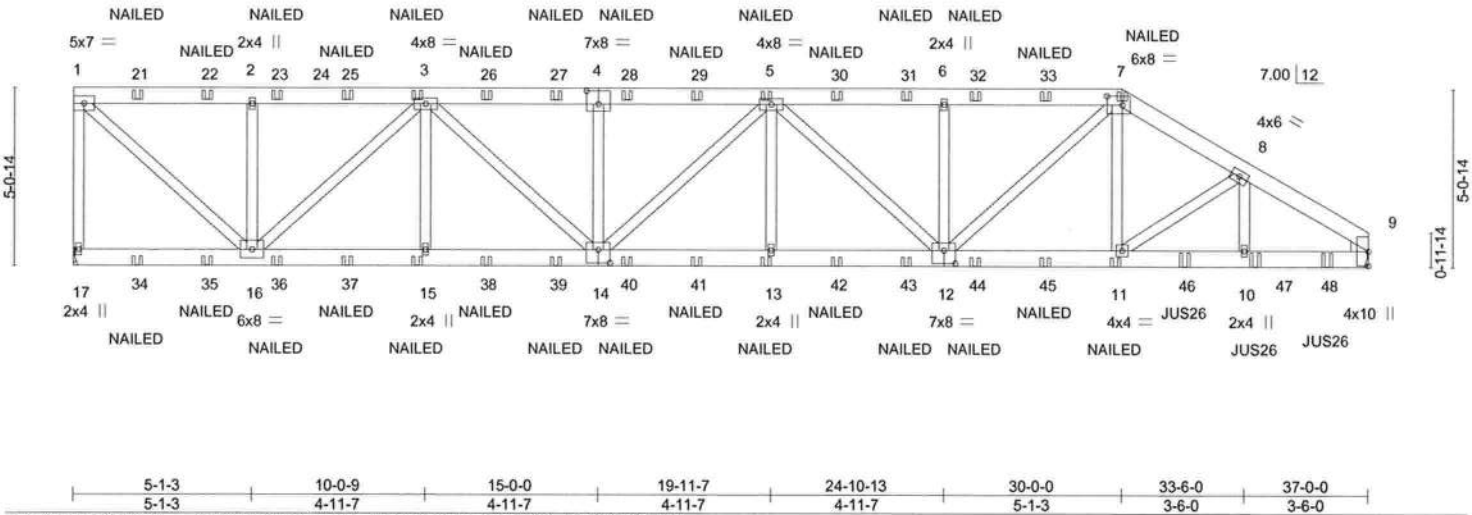


Plate Offsets (X,Y)-- [4:0-4-0,0-4-8], [7:0-5-4,0-3-0], [12:0-4-0,0-4-8], [14:0-4-0,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.36	Vert(LL)	-0.14	13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.28	13-14	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.45	Horz(CT)	0.08	9	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 570 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2
WEDGE
Right: 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) 17=Mechanical, 9=Mechanical
Max Horz 17=-135(LC 6)
Max Uplift 17=-182(LC 8), 9=-247(LC 8)
Max Grav 17=3010(LC 1), 9=3213(LC 1)

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

TOP CHORD 1-17=-2911/228, 1-2=-2908/223, 2-3=-2908/223, 3-4=-5920/418, 4-5=-5920/418,
5-6=-5508/421, 6-7=-5508/421, 7-8=-4566/345, 8-9=-4564/361
BOT CHORD 15-16=-253/4891, 14-15=-253/4891, 13-14=-341/6198, 12-13=-341/6198,
11-12=-217/3949, 10-11=-270/3767, 9-10=-270/3767
WEBS 1-16=-241/3942, 2-16=-617/187, 3-16=-2711/175, 3-15=0/440, 3-14=-91/1406,
4-14=-492/137, 5-14=-380/30, 5-13=0/480, 5-12=-944/26, 6-12=-591/182,
7-12=-142/2102, 7-11=0/441

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 182 lb uplift at joint 17 and 247 lb uplift at joint 9.
- Use USP JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 31-9-12 from the edge and to 35-9-12 to connect truss(es) to front face of bottom chord.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	A12GIR	Roof Special Girder	1	2	T26515499
Job Reference (optional)					

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:09:59 2022 Page 2
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NOTES-

- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-7=-60, 7-9=-60, 17-18=-20

Concentrated Loads (lb)

Vert: 7=-119(F) 3=-119(F) 15=-52(F) 13=-52(F) 5=-119(F) 11=-52(F) 21=-119(F) 22=-119(F) 23=-119(F) 25=-119(F) 26=-119(F) 27=-119(F) 28=-119(F) 29=-119(F) 30=-119(F) 31=-119(F) 32=-119(F) 33=-119(F) 34=-52(F) 35=-52(F) 36=-52(F) 37=-52(F) 38=-52(F) 39=-52(F) 40=-52(F) 41=-52(F) 42=-52(F) 43=-52(F) 44=-52(F) 45=-52(F) 46=-235(F) 47=-235(F) 48=-235(F)



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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	Townsend	
TOWNSEND	B1GIR	HIP GIRDER	1	2		T26515500

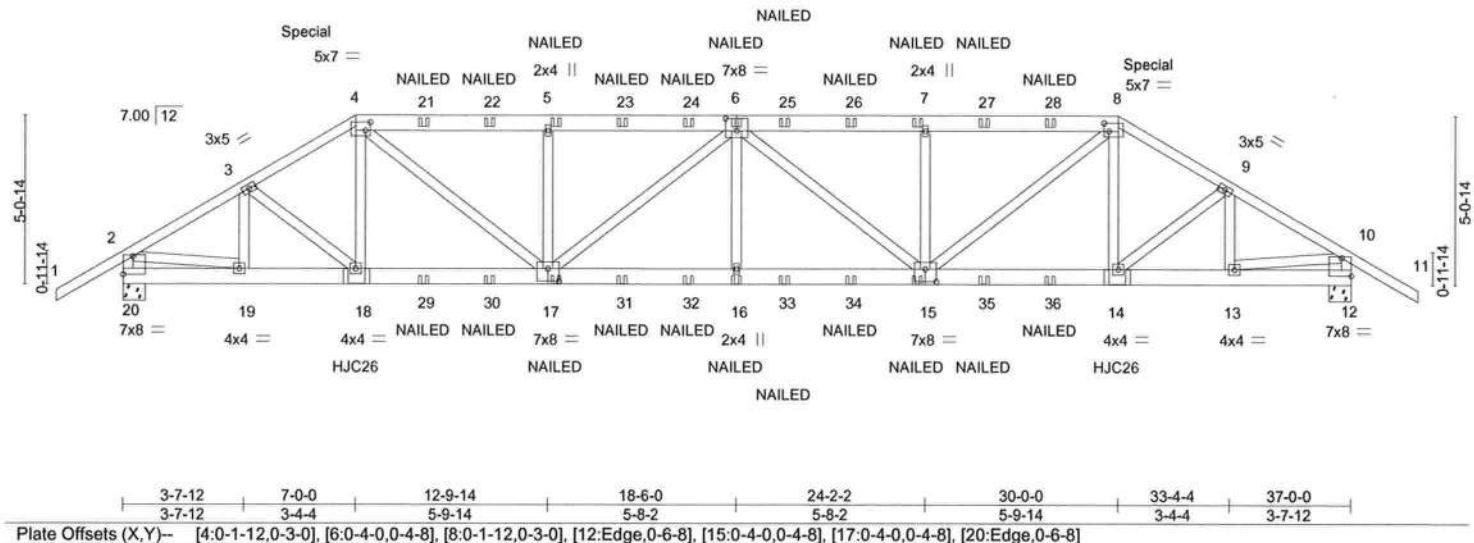
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:14 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-07GjqzGDOGA1mmPvLAIL7UxzYyRsKJ_IJUKZsJzw8cd

-2-0-0	3-7-12	7-0-0	12-9-14	18-6-0	24-2-2	30-0-0	33-4-4	37-0-0	39-0-0
2-0-0	3-7-12	3-4-4	5-9-14	5-8-2	5-8-2	5-9-14	3-4-4	3-7-12	2-0-0

Scale = 1:66.8



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 0.24	Vert(LL)	-0.14	16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.28	16	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.07	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 545 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 5-11-9 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size)	20=0-8-0, 12=0-8-0
Max Horz	20=114(LC 24)	
Max Uplift	20=-237(LC 8), 12=-237(LC 8)	
Max Grav	20=3000(LC 1), 12=3000(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-4009/276, 3-4=-4462/337, 4-5=-5768/458, 5-6=-5764/456, 6-7=-5764/456, 7-8=-5768/458, 8-9=-4462/337, 9-10=-4009/276, 2-20=-2862/255, 10-12=-2862/255
BOT CHORD	19-20=-69/366, 18-19=-153/3394, 17-18=-160/3838, 16-17=-296/6332, 15-16=-296/6332, 14-15=-149/3838, 13-14=-141/3394, 12-13=-3/348
WEBS	3-19=-717/71, 3-18=-104/639, 4-18=0/422, 4-17=-198/2497, 5-17=-861/245, 6-17=-754/0, 6-16=0/587, 6-15=-754/0, 7-15=-861/245, 8-15=-198/2497, 8-14=0/422, 9-14=-104/639, 9-13=-717/71, 2-19=-211/3140, 10-13=-211/3140

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; 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
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 237 lb uplift at joint 20 and 237 lb uplift at joint 12.
 - Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 22-11-4 oc max. starting at 7-0-6 from the left end to 29-11-10 to connect truss(es) to back face of bottom chord.

On filled in pages where hanger is in contact with lumber.



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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	B1GIR	HIP GIRDER	1	2	T26515500

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

8.430 s Aug 16 2021 MITek Industries, Inc. Wed Jan 12 09:10:14 2022 Page 2
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NOTES-

- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 162 lb up at 7-0-0, and 229 lb down and 162 lb up at 30-0-0 on top 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, 4-8=-60, 8-10=-60, 10-11=-60, 12-20=-20

Concentrated Loads (lb)

Vert: 4=-182(B) 8=-182(B) 18=-279(B) 17=-52(B) 5=-119(B) 6=-119(B) 16=-52(B) 15=-52(B) 7=-119(B) 14=-279(B) 21=-119(B) 22=-119(B) 23=-119(B) 24=-119(B) 25=-119(B) 26=-119(B) 27=-119(B) 28=-119(B) 29=-52(B) 30=-52(B) 31=-52(B) 32=-52(B) 33=-52(B) 34=-52(B) 35=-52(B) 36=-52(B)



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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	Townsend	T26515501
TOWNSEND	B2	Hip	1	1		

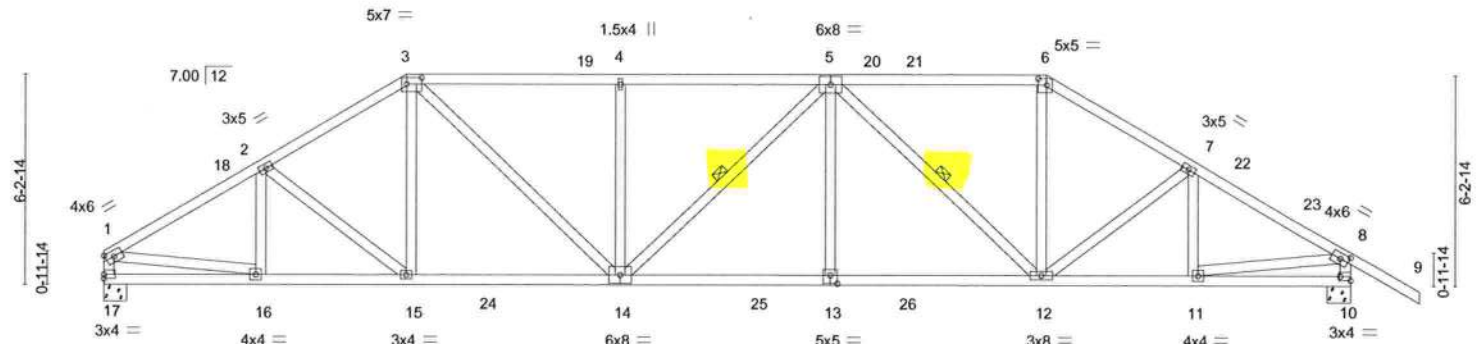
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:16 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCz2QR-LWOTFfHwUwQI04ZHTbpCv1B1I2yoCxAnopgwBzw8cb

4-7-12	9-0-0	15-4-9	21-7-7	28-0-0	32-4-4	37-0-0	39-0-0
4-7-12	4-4-4	6-4-9	6-2-13	6-4-9	4-4-4	4-7-12	2-0-0

Scale = 1:65.9



4-7-12	9-0-0	15-4-9	21-7-7	28-0-0	32-4-4	37-0-0
4-7-12	4-4-4	6-4-9	6-2-13	6-4-9	4-4-4	4-7-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.24 13-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.45 13-14	>972	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 228 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-14, 5-12

REACTIONS. (size) 17=0-8-0, 10=0-8-0
 Max Horz 17=-132(LC 10)
 Max Uplift 10=-54(LC 12)
 Max Grav 17=1658(LC 17), 10=1776(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2325/26, 2-3=-2267/55, 3-4=-2497/75, 4-5=-2497/75, 5-6=-1927/61, 6-7=-2247/50,
 7-8=-2287/14, 1-17=-1562/24, 8-10=-1680/81
 BOT CHORD 16-17=-20/338, 15-16=0/2033, 14-15=0/1974, 13-14=0/2498, 12-13=0/2498,
 11-12=0/1888
 WEBS 3-15=0/318, 3-14=-16/859, 4-14=-448/88, 5-13=0/296, 5-12=-823/5, 6-12=0/787,
 1-16=0/1720, 8-11=0/1750

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-2, Interior(1) 3-10-2 to 9-0-0, Exterior(2R) 9-0-0 to 14-2-13, Interior(1) 14-2-13 to 28-0-0, Exterior(2R) 28-0-0 to 33-2-13, Interior(1) 33-2-13 to 39-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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 MiTek USA, Inc. FL Cert 6634
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 Date:

January 13,2022



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 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	B3	Hip	1	1		T26515502

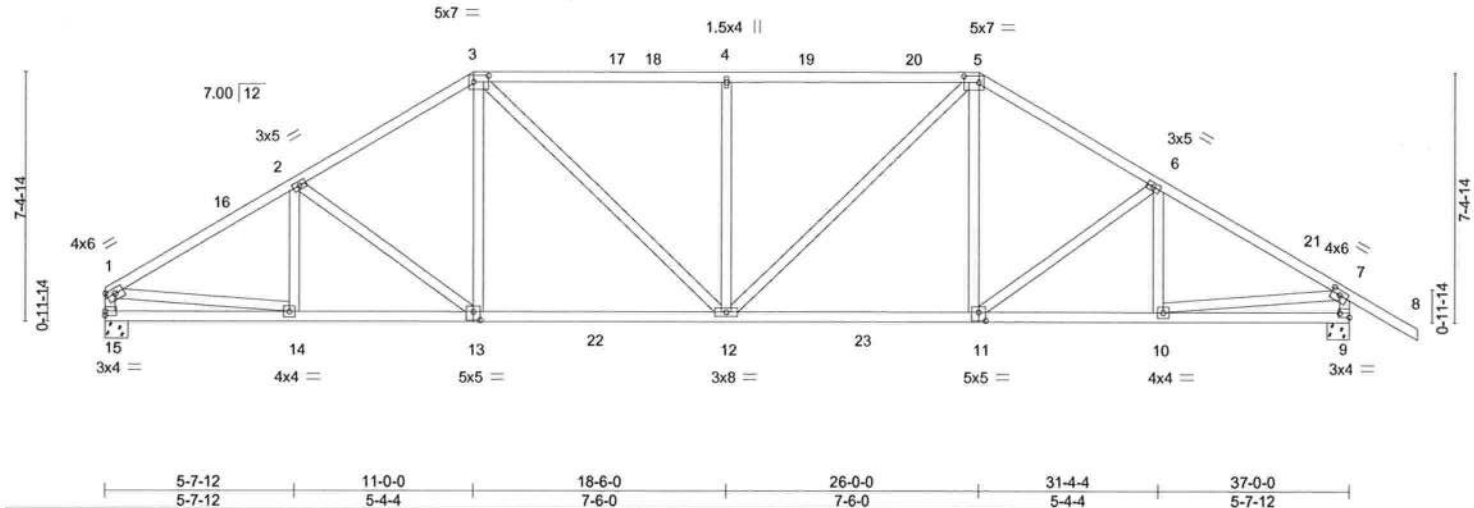
Mayo Truss Company, Inc., Mayo, FL - 32066,

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ID:17j64rh3s7A1hKm?TqBkGCzz2QR-piyT?I6hBYcdE8T0JG2k7ZOm9OVXeEJ?SYDSezw8ca

5-7-12	11-0-0	18-6-0	26-0-0	31-4-4	37-0-0	39-0-0
5-7-12	5-4-4	7-6-0	7-6-0	5-4-4	5-7-12	2-0-0

Scale = 1:65.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.21 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.39 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	

REACTIONS. (size) 15=0-8-0, 9=0-8-0
 Max Horz 15=-153(LC 10)
 Max Uplift 9=-54(LC 12)
 Max Grav 15=1663(LC 17), 9=1784(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2398/27, 2-3=-2162/76, 3-4=-2192/78, 4-5=-2192/78, 5-6=-2151/72, 6-7=-2374/17,
 1-15=-1565/27, 7-9=-1687/83
BOT CHORD 14-15=-29/398, 13-14=0/2102, 12-13=0/1873, 11-12=0/1800, 10-11=0/1955
WEBS 2-13=-285/51, 3-13=0/382, 3-12=0/635, 4-12=-506/98, 5-12=0/642, 5-11=0/367,
 6-11=-260/51, 1-14=0/1720, 7-10=0/1754

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-2, Interior(1) 3-10-2 to 11-0-0, Exterior(2R) 11-0-0 to 16-2-13, Interior(1) 16-2-13 to 26-0-0, Exterior(2R) 26-0-0 to 31-4-4, Interior(1) 31-4-4 to 39-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 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:

January 13,2022



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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515503
TOWNSEND	B4	Hip	1	1		

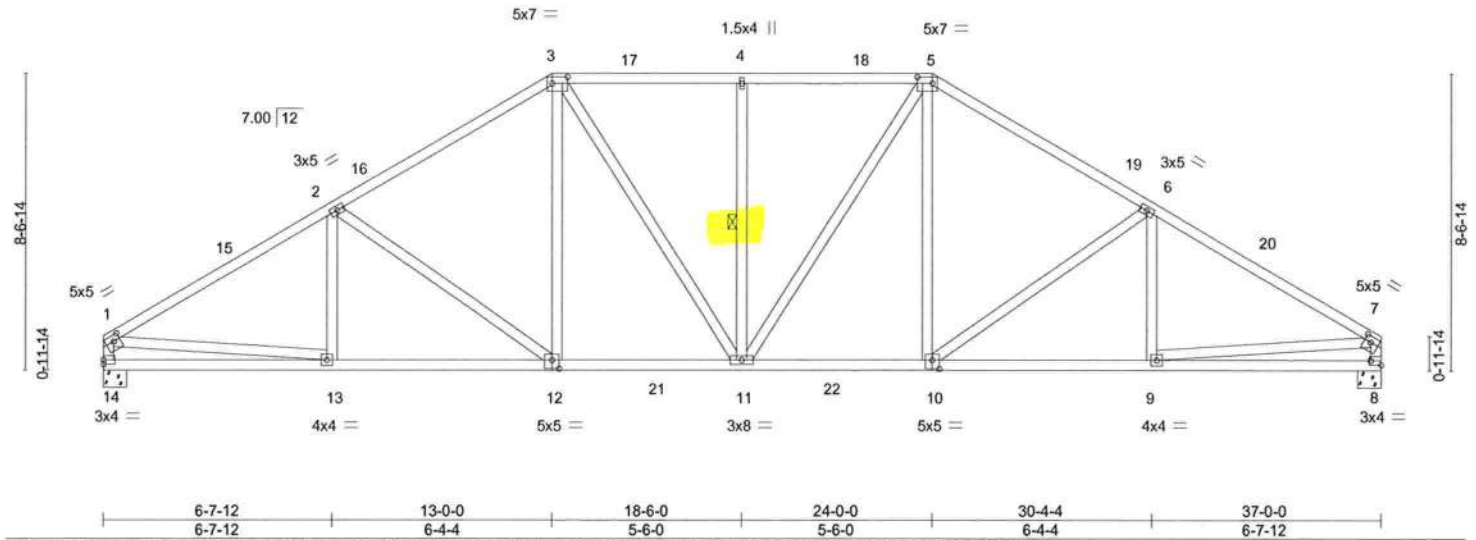
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:18 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-HuVEgJkSUgTFOiga0nHHK6cPZogG5yTE6In?4zw8cZ

6-7-12	13-0-0	18-6-0	24-0-0	30-4-4	37-0-0
6-7-12	6-4-4	5-6-0	5-6-0	6-4-4	6-7-12

Scale: 3/16"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.14 10-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.27 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 236 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-11

REACTIONS. (size) 14=0-8-0, 8=0-8-0
Max Horz 14=-158(LC 10)
Max Grav 14=1658(LC 17), 8=1658(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2417/33, 2-3=-2042/91, 3-4=-1853/96, 4-5=-1853/96, 5-6=-2042/91, 6-7=-2417/33,
1-14=-1549/34, 7-8=-1548/34
BOT CHORD 13-14=-62/463, 12-13=0/2113, 11-12=0/1749, 10-11=0/1689, 9-10=0/1995, 8-9=-24/351
WEBS 2-12=-448/58, 3-12=0/451, 3-11=-2/424, 4-11=-354/63, 5-11=-2/424, 5-10=0/451,
6-10=-448/58, 1-13=0/1661, 7-9=0/1657

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-2, Interior(1) 3-10-2 to 13-0-0, Exterior(2R) 13-0-0 to 18-6-0, Interior(1) 18-6-0 to 24-0-0, Exterior(2R) 24-0-0 to 29-2-13, Interior(1) 29-2-13 to 36-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

January 13,2022



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515504
TOWNSEND	B5	Hip	1	1		

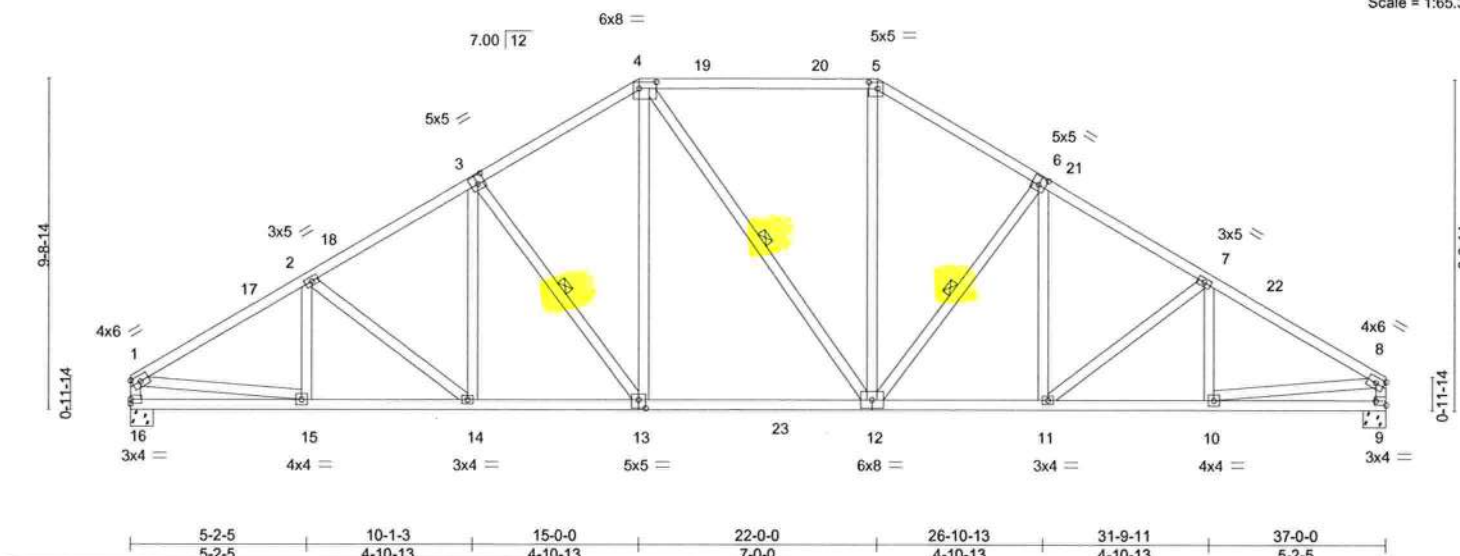
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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:19 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-I43cuhKMDooKtXhS8KIWpYfkNz7h?aoctm1KXWzw8cY

5-2-5	10-1-3	15-0-0	22-0-0	26-10-13	31-9-11	37-0-0
5-2-5	4-10-13	4-10-13	7-0-0	4-10-13	4-10-13	5-2-5

Scale = 1:65.3



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 0.55	Vert(LL)	-0.25 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.45 12-13	>972	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.08 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 247 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
12-13: 2x4 SP No.1	WEBS 1 Row at midpt 3-13, 4-12, 6-12
WEBS 2x4 SP No.2	

REACTIONS. (size) 16=0-8-0, 9=0-8-0
Max Horz 16=-179(LC 10)
Max Grav 16=1647(LC 17), 9=1642(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2352/31, 2-3=-2190/64, 3-4=-1833/106, 4-5=-1556/116, 5-6=-1816/106,
6-7=-2182/63, 7-8=-2344/31, 1-16=-1549/28, 8-9=-1543/28
BOT CHORD 15-16=-71/384, 14-15=0/2091, 13-14=0/1911, 12-13=0/1620, 11-12=0/1792,
10-11=0/1949, 9-10=-15/256
WEBS 3-14=0/329, 3-13=-494/43, 4-13=0/630, 5-12=0/583, 6-12=-497/42, 6-11=0/333,
1-15=0/1726, 8-10=0/1712

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-10-2, Interior(1) 3-10-2 to 15-0-0, Exterior(2R) 15-0-0 to 20-2-13, Interior(1) 20-2-13 to 22-0-0, Exterior(2R) 22-0-0 to 27-2-13, Interior(1) 27-2-13 to 36-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 13, 2022



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ID:17j64rh3s7A1hKm?TqBkGcz2QR-hTBMJMLdP226rRFF9K_vzkAemvFTWAvw4WRcPzw8cW

2-0-0	3-7-12	7-0-0	10-10-0	14-8-0	18-0-4	21-8-0	23-8-0
2-0-0	3-7-12	3-4-4	3-10-0	3-10-0	3-4-4	3-7-12	2-0-0

The diagram illustrates a roof truss system with the following details:

- Members:**
 - Top chord: 4x8 (Special), 1.5x4 (NAILED), 4x8 (Special).
 - Bottom chord: 1.5x4, 4x4, 5x5 (Special), 3x8 (NAILED), 3x4 (Special), 4x4, 1.5x4.
 - Verticals: 3x5, 1.5x4 (NAILED), 3x5.
 - Diagonals: 3x5, 1.5x4 (NAILED), 3x5.
- Joints:** 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22.
- Dimensions:**
 - Vertical: 5'-0" to 14'-0" (left and right), 0'-11" to 14'-0" (left and right).
 - Horizontal: 3'-7" to 12'-0", 7'-0" to 0'-4", 10'-10" to 0'-4", 14'-8" to 0'-4", 18'-0" to 0'-4", 21'-8" to 0'-4".

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

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

TOP CHORD
2-3=-2094/155, 3-4=-2191/216, 4-5=-2146/216, 5-6=-2146/216, 6-7=-2193/213,
7-8=-2086/157, 2-16=-1656/176, 8-10=-1650/177

BOT CHORD
14-15=-85/1750, 13-14=-100/1847, 12-13=-78/1858, 11-12=-44/1743

WEBS
3-15=-316/73, 4-14=-0/387, 4-13=-39/514, 5-13=-534/158, 6-13=-45/496, 6-12=0/411,
7-11=-325/68, 2-15=-109/1752, 8-11=-111/1744

- 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 16 and 158 lb uplift at joint 10.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 229 lb down and 161 lb up at 7-0-0, and 229 lb down and 161 lb up at 14-8-0 on top chord, and 297 lb down and 23 lb up at 7-0-0, and 297 lb down and 23 lb up at 14-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



January 13, 2022

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Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	C1GIR	Hip Girder	1	2	T26515505

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

8.430 s Aug 16 2021 MITek Industries, Inc. Wed Jan 12 09:10:21 2022 Page 2
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-hTBMJMLdIP226rRFF9K_vzkAemvFTWAww4WRcPzw8cW

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, 4-6=-60, 6-8=-60, 8-9=-60, 10-16=-20

Concentrated Loads (lb)

Vert: 4=-182(B) 6=-182(B) 14=-279(B) 13=-52(B) 5=-119(B) 12=-279(B) 18=-119(B) 19=-119(B) 21=-52(B) 22=-52(B)



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

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



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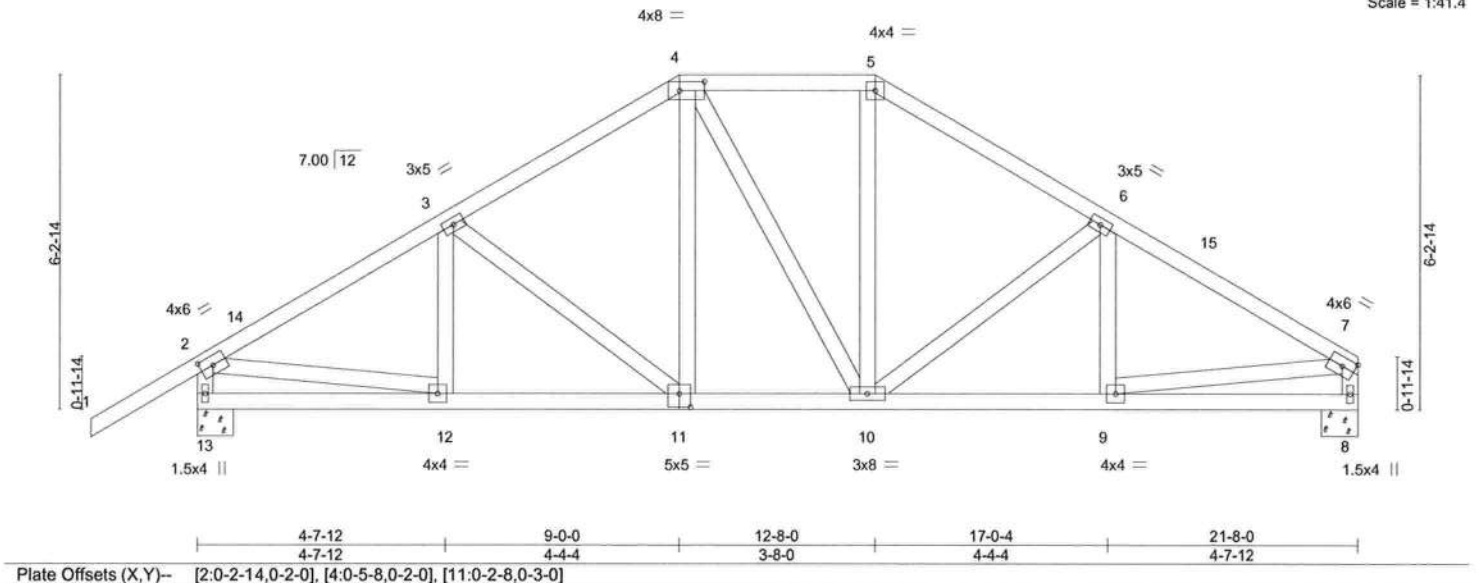
Job TOWNSEND	Truss C2	Truss Type Hip	Qty 1	Ply 1	Townsend T26515506
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:22 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-9flkWiMFwJauk?0RpsrDRAHJfAFdCzS29kG_8rzw8cV

-2-0-0	4-7-12	9-0-0	12-8-0	17-0-4	21-8-0
2-0-0	4-7-12	4-4-4	3-8-0	4-4-4	4-7-12

Scale = 1:41.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.03 11 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.06 11-12 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							
								Weight: 138 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2		

REACTIONS. (size) 13=0-8-0, 8=0-8-0
Max Horz 13=127(LC 11)
Max Uplift 13=-55(LC 12)
Max Grav 13=990(LC 1), 8=849(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1114/31, 3-4=-931/74, 4-5=-753/72, 5-6=-938/71, 6-7=-1136/26, 2-13=-943/79, 7-8=-799/27
BOT CHORD 11-12=-23/899, 10-11=0/743, 9-10=0/925
WEBS 5-10=0/254, 2-12=0/864, 7-9=0/781

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-8-0, Exterior(2R) 12-8-0 to 17-0-4, Interior(1) 17-0-4 to 21-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 13.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 13,2022



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Mayo Truss Company, Inc., Mayo, FL - 32066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:23 2022 Page 1
ID:17j64rh3s7A1hkM?TqBkGCzz2QR-esJ7j2NIH1IIM9bdNZMS_OpUPaaXxPbCOO?YgHzw8cU
-2-0-0 5-6-12 10-10-0 16-1-4 21-8-0
2-0-0 5-6-12 5-3-4 5-3-4 5-6-12
4x4 Scale = 1:48

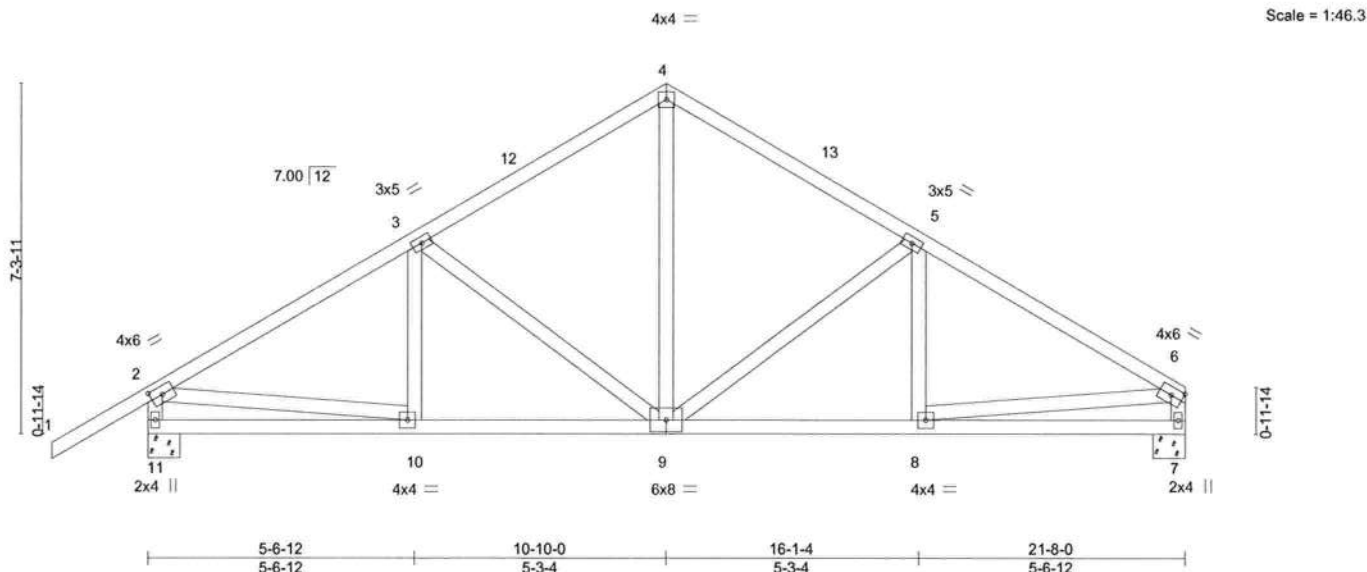


Plate Offsets (X,Y)--		[2:0-2-14,0-2-0]		S-3-4		S-3-4		S-3-4		S-3-4		S-3-4	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.04	8-9	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	8-9	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 130 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=0-8-0, 7=0-8-0
 Max Horz 11=145(LC 11)
 Max Uplift 11=-55(LC 12)
 Max Grav 11=990(LC 1), 7=849(LC 1)

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

TOP CHORD	2-3=-1131/49, 3-4=-844/98, 4-5=-846/102, 5-6=-1148/52, 2-11=-936/111, 6-7=-795/46
BOT CHORD	9-10=-11/903, 8-9=-6/925
WEBS	4-9=-11/469, 5-9=-361/57, 3-9=-335/54, 2-10=-8/808, 6-8=0/737

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-10-0, Exterior(2R) 10-10-0 to 13-10-0, Interior(1) 13-10-0 to 21-6-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 11.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

January 13, 2022



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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515508
TOWNSEND	C4GIR	COMMON GIRDER	1	2		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:27 2022 Page 1

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-2-0-0	2-11-2	5-6-12	8-2-6	10-10-0	13-5-10	16-1-4	18-8-14	21-8-0
2-0-0	2-11-2	2-7-10	2-7-10	2-7-10	2-7-10	2-7-10	2-7-10	2-11-2

4x6 ||

Scale = 1:47.3

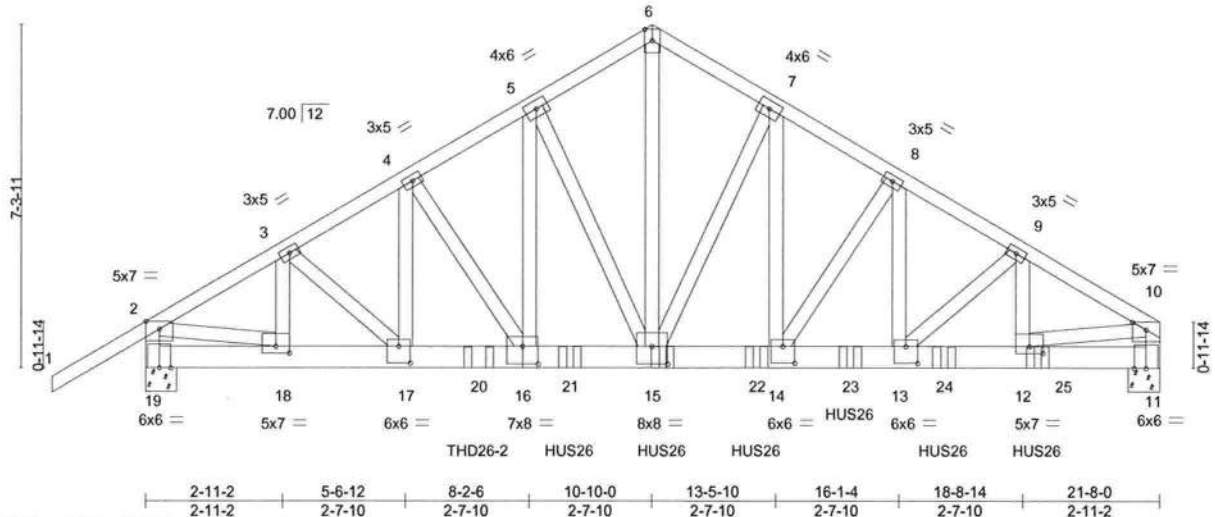


Plate Offsets (X,Y)-- [12:0-3-8,0-1-12], [13:0-3-0,0-4-4], [14:0-3-0,0-4-4], [15:0-4-0,0-4-8], [16:0-4-0,0-4-8], [17:0-3-0,0-4-4], [18:0-3-8,0-1-12]

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 0.66	Vert(LL)	-0.13	14	>999	240	
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.25	14	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.90	Horz(CT)	0.05	11	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 360 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP SS
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 19=0-8-0, 11=0-8-0
Max Horz 19=143(LC 7)
Max Grav 19=6011(LC 1), 11=7597(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7807/0, 3-4=-9352/0, 4-5=-9039/0, 5-6=-7600/0, 6-7=-7601/0, 7-8=-9144/0, 8-9=-10423/0, 9-10=-10135/0, 2-19=-5664/0, 10-11=-7113/0
BOT CHORD 18-19=-69724, 17-18=0/6654, 16-17=0/8069, 15-16=0/7675, 14-15=0/7853, 13-14=0/9002, 12-13=0/8682, 11-12=0/935
WEBS 6-15=0/7370, 7-15=-2922/0, 7-14=0/3357, 8-14=-2038/0, 8-13=0/2136, 9-13=-205/517, 9-12=-566/253, 5-15=-2585/216, 5-16=-191/2990, 4-16=-591/114, 4-17=-95/445, 3-17=0/1877, 3-18=-2056/14, 2-18=0/6138, 10-12=0/7972

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 19, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to front face of bottom chord.
- Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 19-0-12 to connect truss(es) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

Continued on page 2

LOAD CASE(S) Standard

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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 13,2022



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	C4GIR	COMMON GIRDER	1	2	T26515508

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:27 2022 Page 2
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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, 6-10=-60, 11-19=-20

Concentrated Loads (lb)

Vert: 15=-1454(F) 20=-2990(F) 21=-1454(F) 22=-1448(F) 23=-1373(F) 24=-1373(F) 25=-1373(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/10/2020 BEFORE USE.

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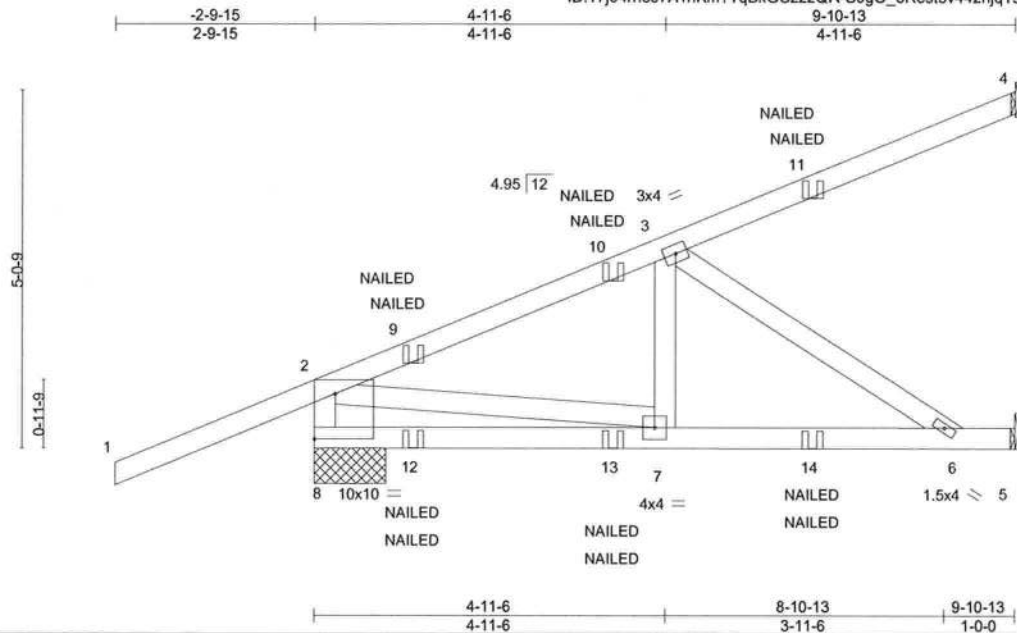


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515509
TOWNSEND	CJ01	Diagonal Hip Girder	1	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:29 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-S0gO_5Rest3v442njqTsDf3QY?ZHL774mKSsuxzw8cO



Scale = 1:31.3

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.70	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.12	6-7	>936	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 54 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 6-0-0 oc bracing.

REACTIONS.

(size) 8=1-0-1, 4=Mechanical, 5=Mechanical
Max Horz 8=155(LC 8)
Max Uplift 8=-199(LC 8), 4=-43(LC 8), 5=-13(LC 8)
Max Grav 8=514(LC 28), 4=147(LC 1), 5=278(LC 28)

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

TOP CHORD 2-8=-517/184, 2-3=-513/53
BOT CHORD 7-8=-478/64, 6-7=-84/417
WEBS 2-7=0/753, 3-6=-496/100

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 8, 43 lb uplift at joint 4 and 13 lb uplift at joint 5.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=122(F=61, B=61) 11=-64(F=-32, B=-32) 12=63(F=32, B=32) 13=11(F=6, B=6) 14=-35(F=-17, B=-17)



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

January 13,2022



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	CJ02	Diagonal Hip Girder	3	1		T26515510
Mayo Truss Company, Inc., Mayo, FL - 32066,						Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:31 2022 Page 1
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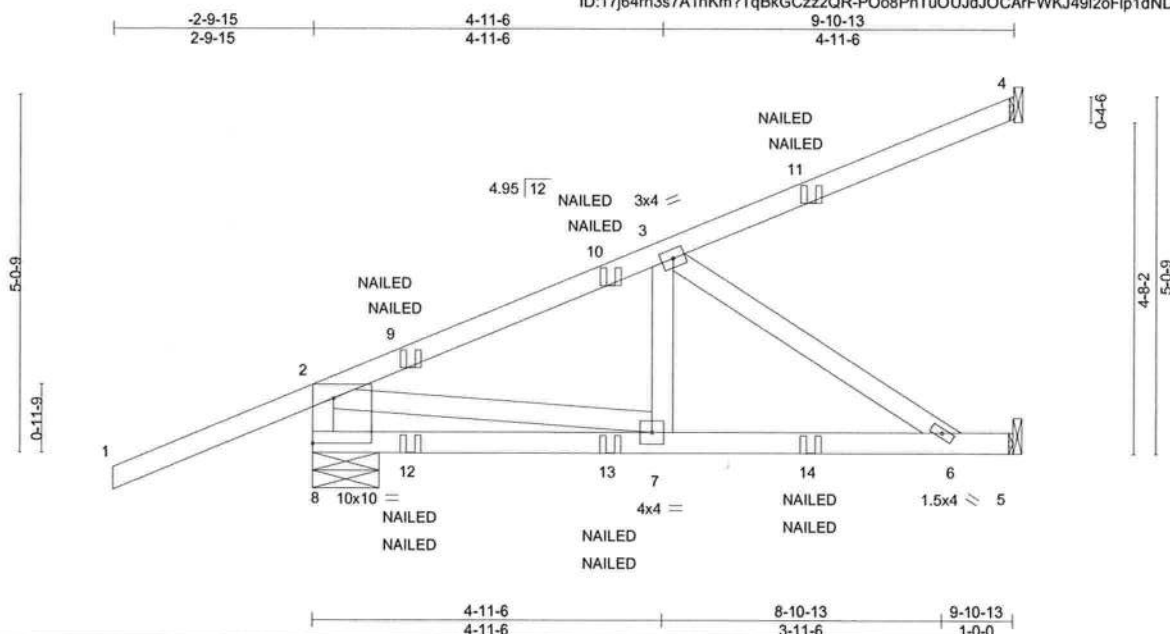


Plate Offsets (X,Y)-- [8:Edge,0-7-11]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.70	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.12	6-7	>936	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	-0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 54 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 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-11-5, 4=Mechanical, 5=Mechanical
Max Horz 8=155(LC 8)
Max Uplift 8=-199(LC 8), 4=-43(LC 8), 5=-13(LC 8)
Max Grav 8=514(LC 28), 4=147(LC 1), 5=278(LC 28)

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

TOP CHORD 2-8=-517/184, 2-3=-513/53
BOT CHORD 7-8=-478/64, 6-7=-84/417
WEBS 2-7=0/753, 3-6=-496/100

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 8, 43 lb uplift at joint 4 and 13 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 9=122(F=61, B=61) 11=-64(F=-32, B=-32) 12=63(F=32, B=32) 13=11(F=6, B=6) 14=-35(F=-17, B=-17)



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Date:

January 13, 2022

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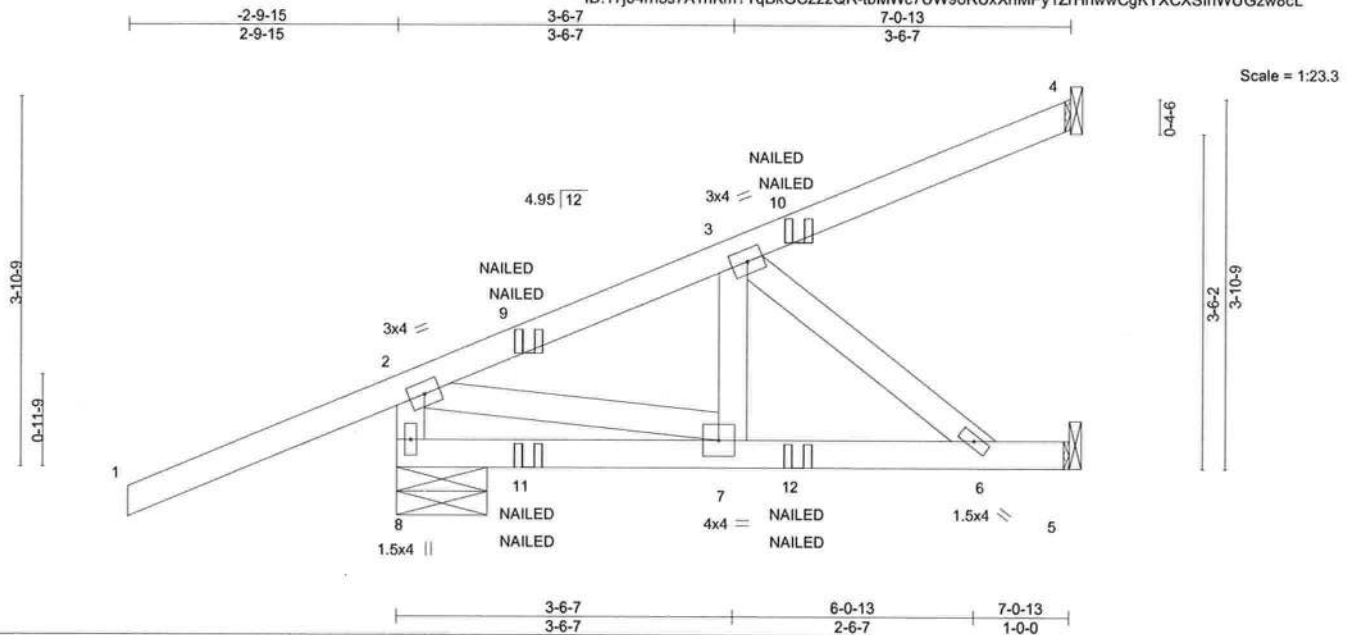
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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515511
TOWNSEND	CJ03	Diagonal Hip Girder	1	1		
Mayo Truss Company, Inc., Mayo, FL - 32066.						Job Reference (optional)

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:32 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-tbMWc7UW9oRUxXnMPy1ZrHhwCgKYXCXSiHwUGzw8cL



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	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.03	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP							
									Weight: 40 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) 8=0-11-8, 4=Mechanical, 5=Mechanical
Max Horz 8=127(LC 8)
Max Uplift 8=143(LC 8), 4=29(LC 8), 5=12(LC 5)
Max Grav 8=426(LC 28), 4=114(LC 17), 5=143(LC 29)

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

TOP CHORD 2-8=-413/140, 2-3=-277/25
WEBS 2-7=-29/289

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 8, 29 lb uplift at joint 4 and 12 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=61(B) 11=31(F=-1, B=32) 12=0(F=-5, B=6)



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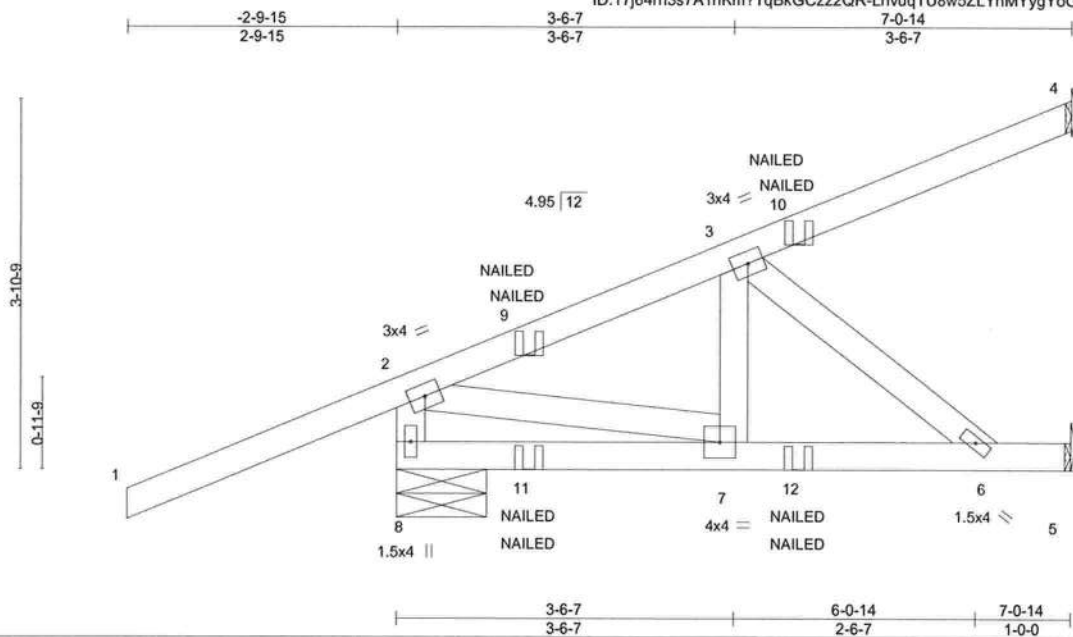


6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	CJ04	Diagonal Hip Girder	1	1	T26515512

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:33 2022 Page 1
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Scale = 1:23.3

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 0.92	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.03	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP							
									Weight: 40 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 6-0-0 oc bracing.

REACTIONS.

(size) 8=0-11-5, 4=Mechanical, 5=Mechanical
Max Horz 8=127(LC 8)
Max Uplift 8=-193(LC 8), 4=-24(LC 8), 5=-18(LC 5)
Max Grav 8=392(LC 28), 4=126(LC 17), 5=131(LC 29)

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

TOP CHORD 2-8=-393/181, 2-3=-251/77
WEBS 2-7=-53/275

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 8, 24 lb uplift at joint 4 and 18 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 9=122(F=61, B=61) 11=63(F=32, B=32) 12=11(F=6, B=6)



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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515513
TOWNSEND	CJ05	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

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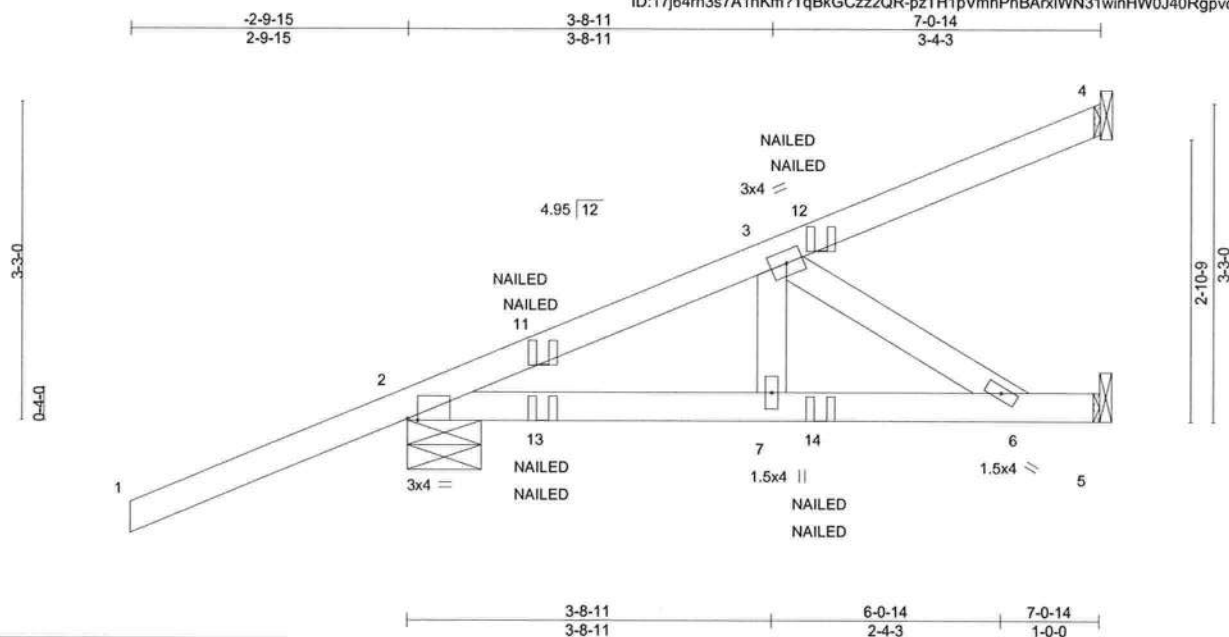


Plate Offsets (X,Y)-- [2:0-1-4,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	-0.03	7-10	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	0.03	7-10	>999	180	GRIP
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	5	n/a	n/a	244/190
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
									Weight: 33 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=0-9-2, 5=Mechanical
Max Horz 2=112(LC 24)
Max Uplift 4=-22(LC 8), 2=-207(LC 8), 5=-57(LC 5)
Max Grav 4=103(LC 17), 2=427(LC 28), 5=150(LC 29)

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

TOP CHORD 2-3=-367/94
BOT CHORD 2-7=-120/292, 6-7=-120/292
WEBS 3-6=-341/140

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 4, 207 lb uplift at joint 2 and 57 lb uplift at joint 5.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 11=73(F=36, B=36) 13=81(F=41, B=41) 14=5(F=3, B=3)



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January 13,2022



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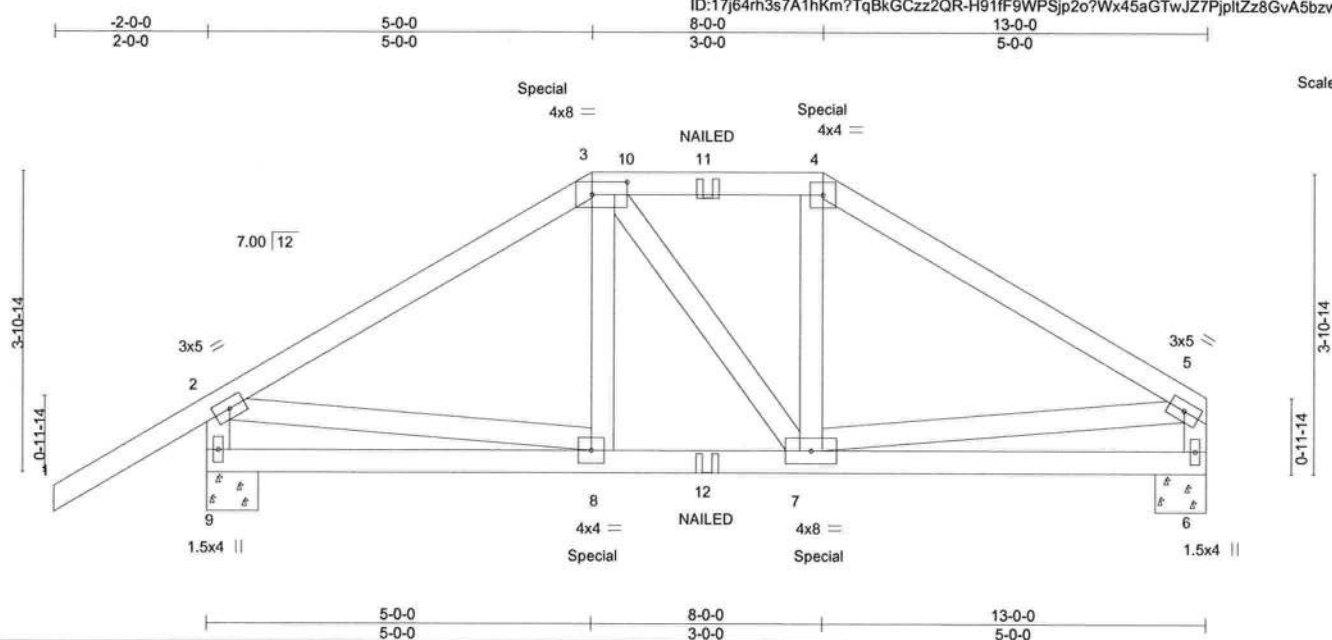


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.14	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 153 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) 9=0-8-0, 6=0-8-0
 Max Horz 9=87(LC 7)
 Max Uplift 9=-121(LC 8), 6=-58(LC 8)
 Max Grav 9=878(LC 1), 6=729(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-933/119, 3-4=-752/120, 4-5=-942/118, 2-9=-827/149, 5-6=-677/86
BOT CHORD 7-8=-74/750
WEBS 2-8=-101/664, 5-7=-117/623

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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 9 and 58 lb uplift at joint 6.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 146 lb down and 126 lb up at 5-0-0, and 133 lb down and 124 lb up at 8-0-0 on top chord, and 156 lb down and 33 lb up at 5-0-0, and 161 lb down and 34 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	D1GIR	Hip Girder	1	2	T26515514

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

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ID:17j64rh3s7A1hKm?TqBkGCzz2QR-H91fF9WPSjp2o?Wx45aGTWJZ7PjPltZz8GvA5bzw8cl

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-60, 6-9=-20

Concentrated Loads (lb)

Vert: 3=-99(F) 4=-86(F) 8=-84(F) 7=-111(F) 11=-57(F) 12=-26(F)



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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6904 Parke East Blvd.
Tampa, FL 36610

Job TOWNSEND	Truss D2	Truss Type Common	Qty 2	Ply 1	Townsend	T26515515
Mayo Truss Company, Inc., Mayo, FL - 32066,						Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:36 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-IMb1SVX1D0xvP957eo5V07si7p3HUKF6Nvkd1zw8cH

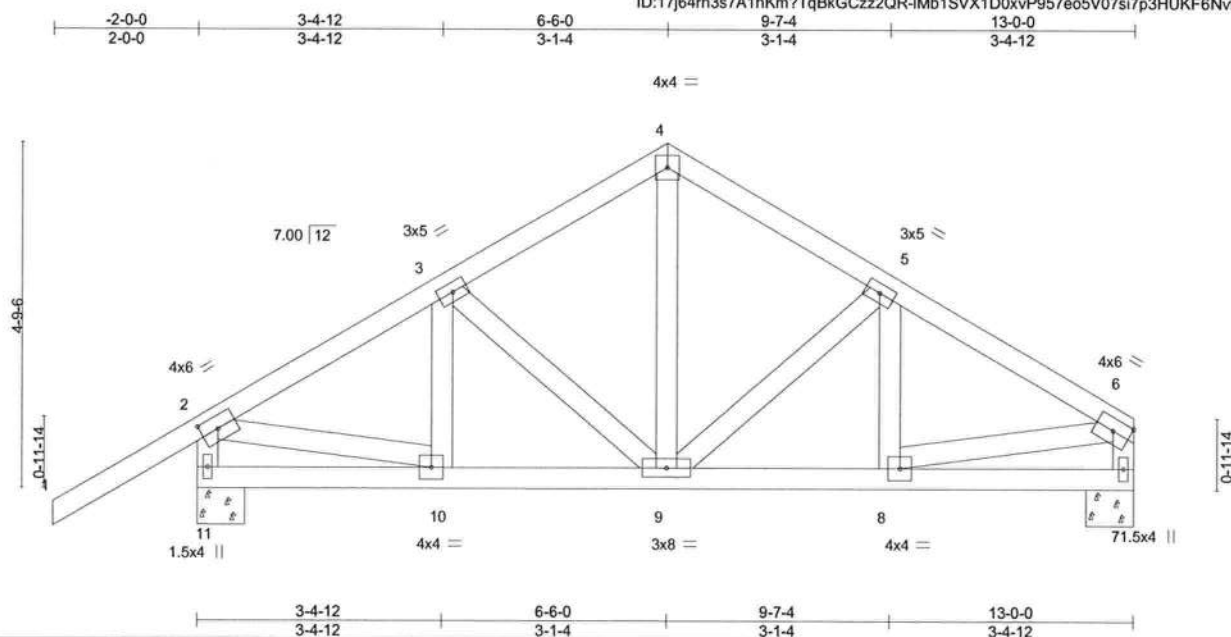


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [5:0-0-0,0-0-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.01 9 >999	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.02 8-9 >999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00 7 n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 81 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=0-8-0, 7=0-8-0
Max Horz 11=102(LC 11)
Max Uplift 11=57(LC 12)
Max Grav 11=648(LC 1), 7=497(LC 1)

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

TOP CHORD 2-3=-568/70, 3-4=-462/95, 4-5=-464/96, 5-6=-593/71, 2-11=-612/148, 6-7=-460/63
BOT CHORD 9-10=-36/441, 8-9=-39/471
WEBS 4-9=-29/256, 2-10=-52/489, 6-8=-18/399

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-7-4, Interior(1) 9-7-4 to 12-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

January 13,2022



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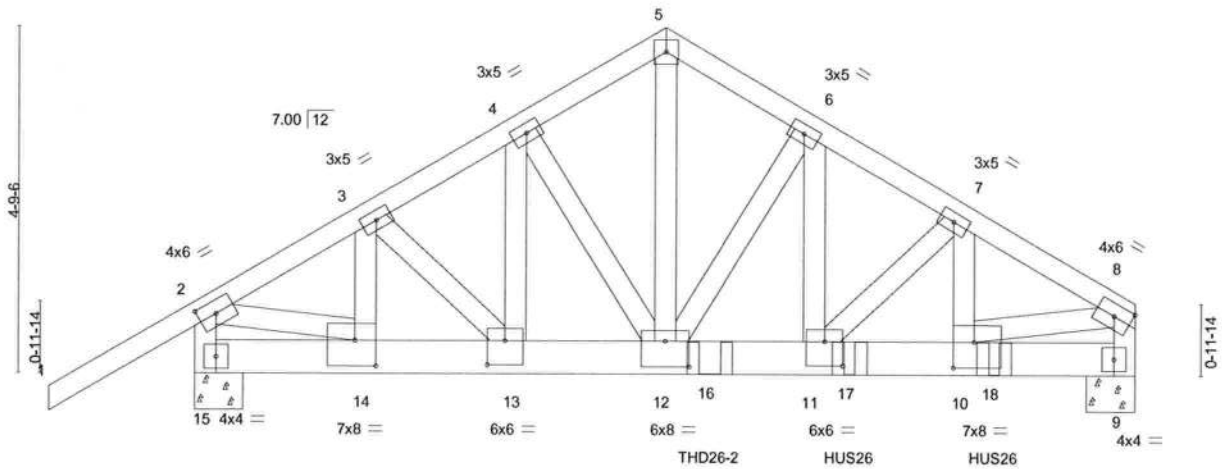
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-2-0-0	2-4-5	4-5-3	6-6-0	8-6-13	10-7-11	13-0-0
2-0-0	2-4-5	2-0-13	2-0-13	2-0-13	2-0-13	2-4-5

 $4 \times 4 =$

Scale = 1:30.6



	2-4-5	4-5-3	6-6-0	8-6-13	10-7-11	13-0-0		
	2-4-5	2-0-13	2-0-13	2-0-13	2-0-13	2-4-5		
Plate Offsets (X,Y)--	[2:0-2-14,0-2-0]	[6:0-0-0,0-0-0]	[7:0-0-0,0-0-0]	[10:0-3-8,0-4-4]	[11:0-3-0,0-4-0]	[12:0-4-0,0-4-4]	[13:0-3-0,0-4-0]	[14:0-3-8,0-4-4]

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 0.33	Vert(LL) -0.04 11-12 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.85	Vert(CT) -0.08 11-12 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Horz(CT) 0.02 9 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 200 lb	FT = 20%

Weight: 200 lb FT = 20%

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

BRACING-
TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 15=0-8-0, 9=0-8-0
Max Horz 15=99(LC 7)
Max Grav 15=2726(LC 1), 9=4521(LC 1)

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

TOP CHORD 2-3=-3164/0, 3-4=-3705/0, 4-5=-4038/0, 5-6=-4037/0, 6-7=-5322/0, 7-8=-5399/0,
2-15=-2590/5, 8-9=-4073/0

BOT CHORD 13-14=0/2673, 12-13=0/3176, 11-12=0/4581, 10-11=0/4605, 9-10=0/507

WEBS 3-14=-835/0, 3-13=0/694, 4-13=-729/50, 4-12=-104/649, 5-12=0/3846, 6-12=-2017/0,
6-11=0/2242, 7-11=-3227/6, 7-10=-4936/3, 2-14=0/2622, 8-10=0/4285

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: 2x6 - 2 rows staggered at 0-3-0 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BC DL=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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Bearing at joint(s) 15, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Use USP THD26-2 (With 18-16d nails into Girder & 12-10d nails into Truss) or equivalent at 7-1-8 from the left end to connect truss(es) to back face of bottom chord.
- 10) Use USP HUS26 (With 14-16d nails into Girder & 6-16d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 9-0-12 from the left end to 11-0-12 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
Continued on page 2



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Date:

January 13, 2022



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Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	D3GIR	COMMON GIRDER	1	2	T26515516

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:39 2022 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-60, 2-5=-60, 5-8=-60, 9-15=-20

Concentrated Loads (lb)

Vert: 16=-3193(B) 17=-1454(B) 18=-1454(B)



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Job TOWNSEND	Truss E1GIR	Truss Type Half Hip Girder	Qty 1	Ply 2	Townsend Job Reference (optional)	T26515517
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:44 2022 Page 1

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-2-0-0	5-0-0	10-2-14	15-4-0	20-5-2	25-8-0
2-0-0	5-0-0	5-2-14	5-1-2	5-1-2	5-2-14

Scale = 1:46.9

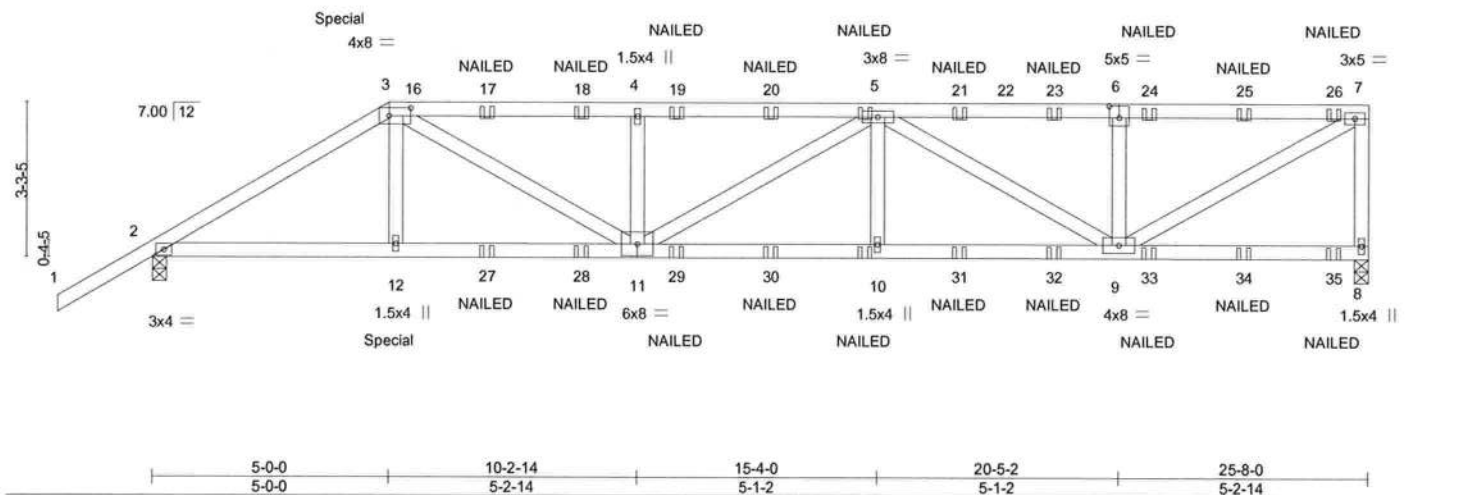


Plate Offsets (X,Y)--		[3:0-5-8,0-2-0], [6:0-2-8,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.42	Vert(LL)	-0.09 10-11 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL 1.25		BC	0.50	Vert(CT)	-0.19 10-11 >999 180				
BCLL	0.0 *	Rep Stress Incr NO		WB	0.29	Horz(CT)	0.05 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 268 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
WEBS 2x4 SP No.2	BOT CHORD
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 8=0-3-8, 2=0-3-8
	Max Horz 2=105(LC 7)
	Max Uplift 8=253(LC 5), 2=330(LC 8)
	Max Grav 8=1660(LC 1), 2=1653(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-2667/460, 3-4=-3395/581, 4-5=-3395/581, 5-6=-2240/369, 6-7=-2240/369, 7-8=-1558/261
BOT CHORD	2-12=-423/2237, 11-12=-425/2250, 10-11=-555/3422, 9-10=-555/3422
WEBS	3-12=-48/410, 3-11=-189/1346, 4-11=-487/112, 5-10=0/354, 5-9=-1370/228, 6-9=-397/96, 7-9=-383/2525

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 8 and 330 lb uplift at joint 2.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 106 lb up at 5-0-0 on top chord, and 200 lb down and 54 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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January 13,2022

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	E1GIR	Half Hip Girder	1	2	T26515517

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:44 2022 Page 2
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LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-79(F) 12=-123(F) 10=-32(F) 5=-61(F) 17=-61(F) 18=-61(F) 19=-61(F) 20=-61(F) 21=-61(F) 23=-61(F) 24=-61(F) 25=-61(F) 26=-73(F) 27=-32(F) 28=-32(F) 29=-32(F) 30=-32(F) 31=-32(F) 32=-32(F) 33=-32(F) 34=-32(F) 35=-36(F)



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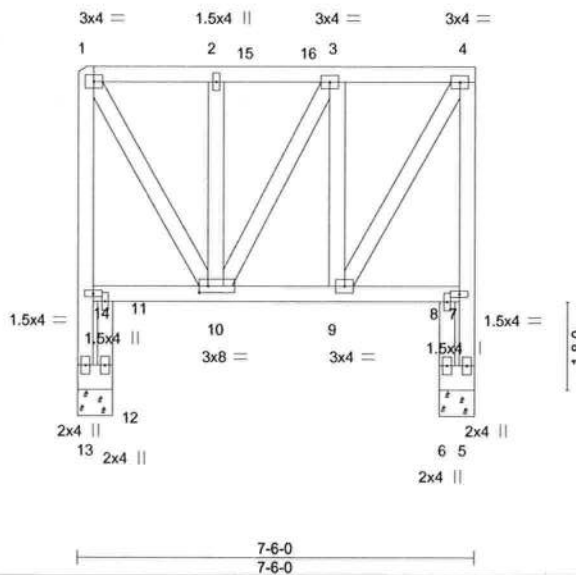
Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	H1	HALF HIP	1	1	T26515518

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:45 2022 Page 1

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0-2-0 7-6-0
0-2-0 7-4-0



Scale = 1:41.9

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

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 0.06	Vert(LL)	-0.00 10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.01 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						

Weight: 75 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
7-14: 2x4 SP No.2
WEBS 2x4 SP No.2

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

REACTIONS. All bearings 0-8-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 5, 13
Max Grav All reactions 250 lb or less at joint(s) 5, 13, 12, 6

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2) 3-1-12 to 4-4-4, Corner(3) 4-4-4 to 7-4-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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) 5, 13.
- 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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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

January 13,2022

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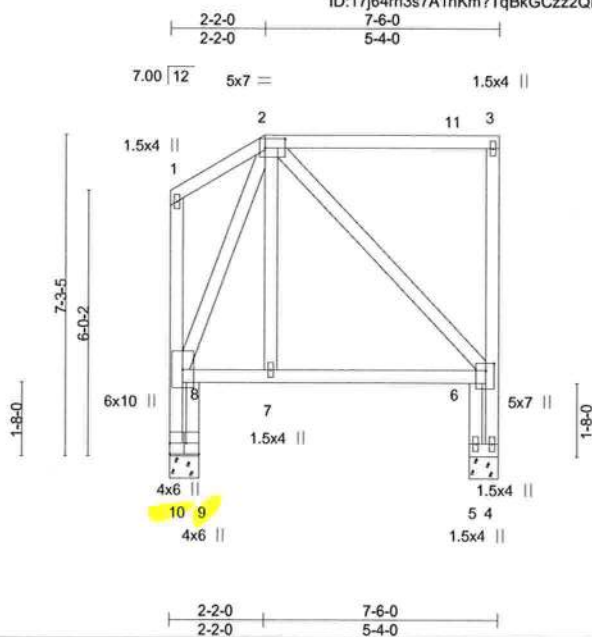
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	H2	Half Hip	1	1	T26515519

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:47 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-xTmBmFwdPKLErQEnco4ySpS3FoLZFTkv7ppWuzw8c6



Scale = 1:50.3

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

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 0.82	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	-0.03	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 72 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. All bearings 0-8-0.
(lb) - Max Horz 10=198(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 4, 5 except 10=-708(LC 8), 9=-817(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 5 except 4=298(LC 17), 10=995(LC 11), 9=759(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-365/194, 8-10=-1557/1297
BOT CHORD 7-8=-193/253, 6-7=-191/256, 9-10=-337/321
WEBS 2-8=-268/83, 8-9=-1461/1535

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-2-0, Exterior(2R) 2-2-0 to 6-4-15, Interior(1) 6-4-15 to 7-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 10=708, 9=817.
- 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:

January 13,2022

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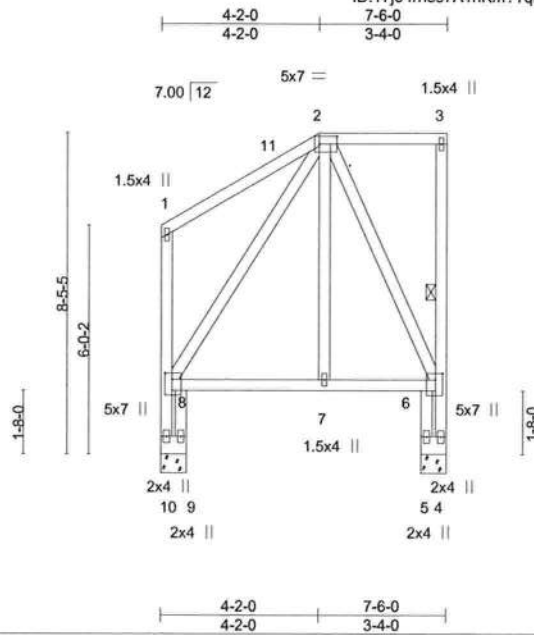


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	H3	HALF HIP	1	1	T26515520
Job Reference (optional)					

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:48 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-PgJZbgYOiScr??RLJJJfMigf9lIkJt8nZM3Lzw8c5



Scale = 1:58.3

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

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)	-0.01	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.02	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	-0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 79 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
6-8: 2x4 SP No.2
WEBS 2x4 SP No.2 *Except*
1-10: 2x4 SP No.1

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

REACTIONS. All bearings 0-8-0.
(lb) - Max Horz 10=57(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 9=-219(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 9, 5 except 4=284(LC 1), 10=299(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-6=-280/106, 8-10=-364/2
WEBS 8-9=-185/351

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-2-0, Exterior(2E) 4-2-0 to 7-4-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 9=219.
- 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:

January 13,2022



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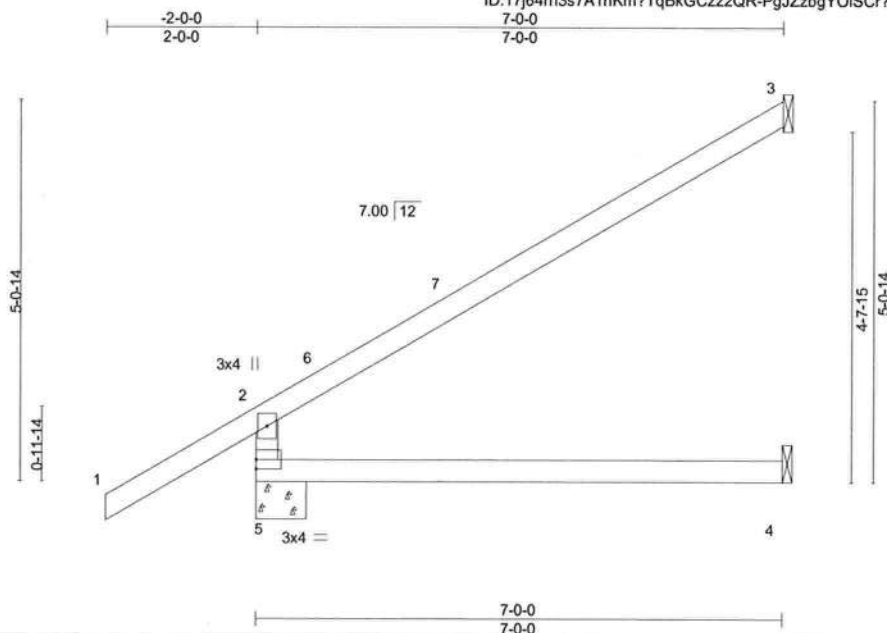


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	J1	Jack-Open	33	1		T26515521
Job Reference (optional)						

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:48 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-PgJZzbgyOISCr??RLJJVfMh2f4Dlmt8nZM3Lzw8c5



Scale = 1:29.5

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.55	Vert(LL)	-0.09	4-5	>878	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.20	4-5	>401	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.06	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 27 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 5=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=156(LC 12)
Max Uplift 5=-21(LC 12), 3=-58(LC 12)
Max Grav 5=421(LC 1), 3=180(LC 17), 4=124(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-357/141

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No.34869
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January 13,2022



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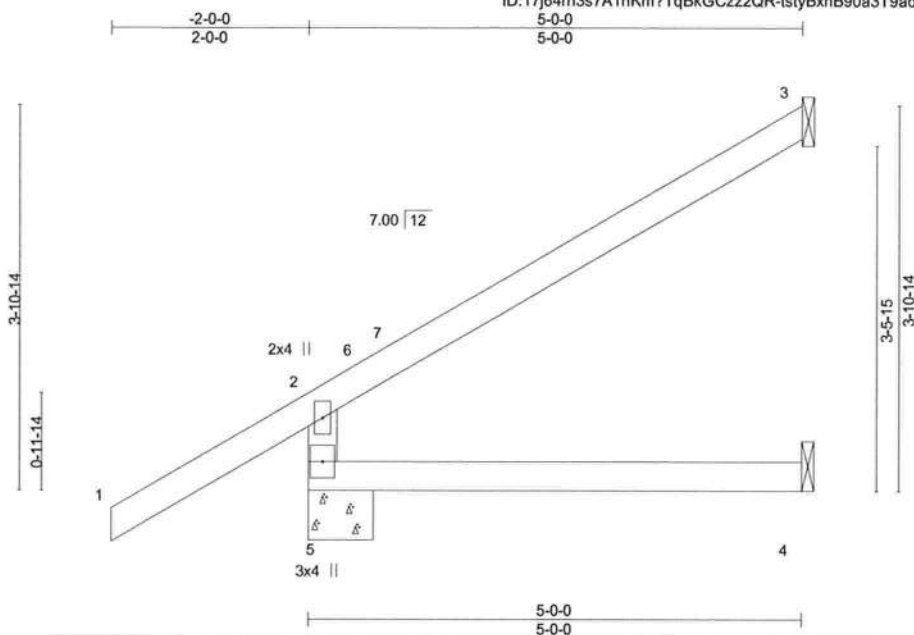


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515522
TOWNSEND	J1A	Jack-Open	3	1		
Job Reference (optional)						

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:49 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-tstyBxB90a3T9adu1qY1tuwr2Ui1DB1MRlwbznw8c4



Scale = 1:22.5

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	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS							
Weight: 21 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=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=128(LC 12)
Max Uplift 5=-32(LC 12), 3=-39(LC 12)
Max Grav 5=349(LC 1), 3=119(LC 17), 4=87(LC 3)

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

TOP CHORD 2-5=-299/144

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd. Tampa FL 33610
Date:

January 13,2022



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515523
TOWNSEND	J1B	Common	3	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:51 2022 Page 1
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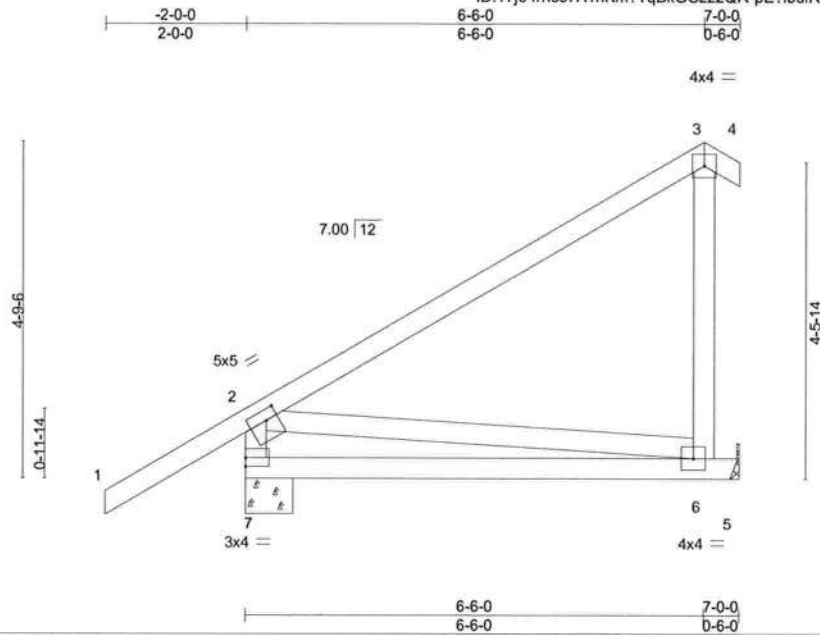


Plate Offsets (X,Y)-- [2:0-2-0,0-1-12]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.07 6-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.15 6-7	>535	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 42 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) 7=0-8-0, 5=Mechanical
Max Horz 7=134(LC 12)
Max Uplift 7=-36(LC 12), 5=-33(LC 12)
Max Grav 7=421(LC 1), 5=255(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-7=-320/171
BOT CHORD 6-7=-302/524
WEBS 2-6=-528/304

NOTES-

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



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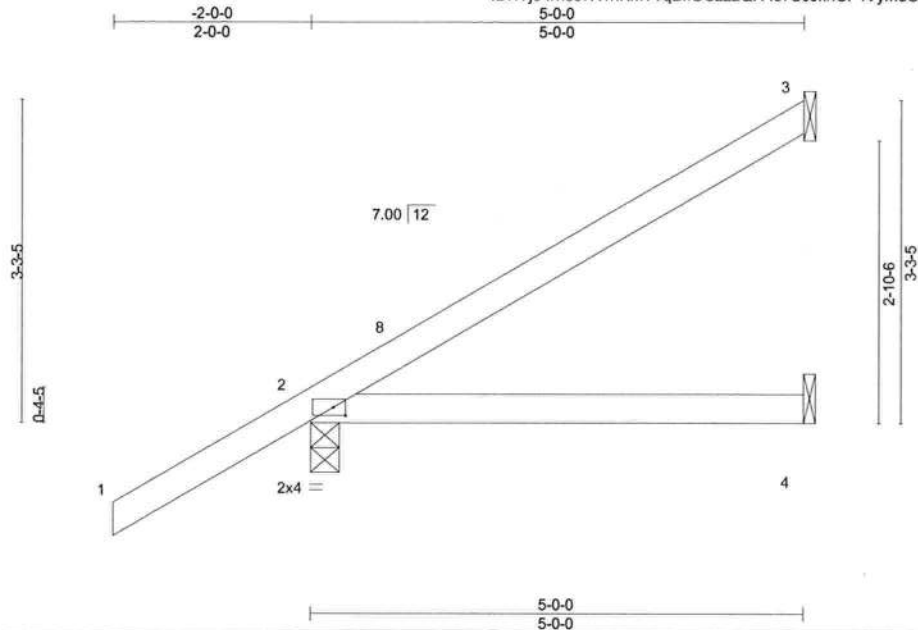


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	J1C	Jack-Open	11	1	T26515524
Job Reference (optional)					

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:53 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-ld7S0JkhCF4VymuO7ivUCj3cPgrhz1AcH3G7kYzw8c0



Scale = 1:22.5

Plate Offsets (X,Y)-- [2:0-1-7,0-1-0]											
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	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 FBC2020/TPI2014		Matrix-AS								
								Weight: 20 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=112(LC 12)
Max Uplift 3=-30(LC 12), 2=-43(LC 12)
Max Grav 3=121(LC 1), 2=342(LC 1), 4=87(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 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:

January 13,2022



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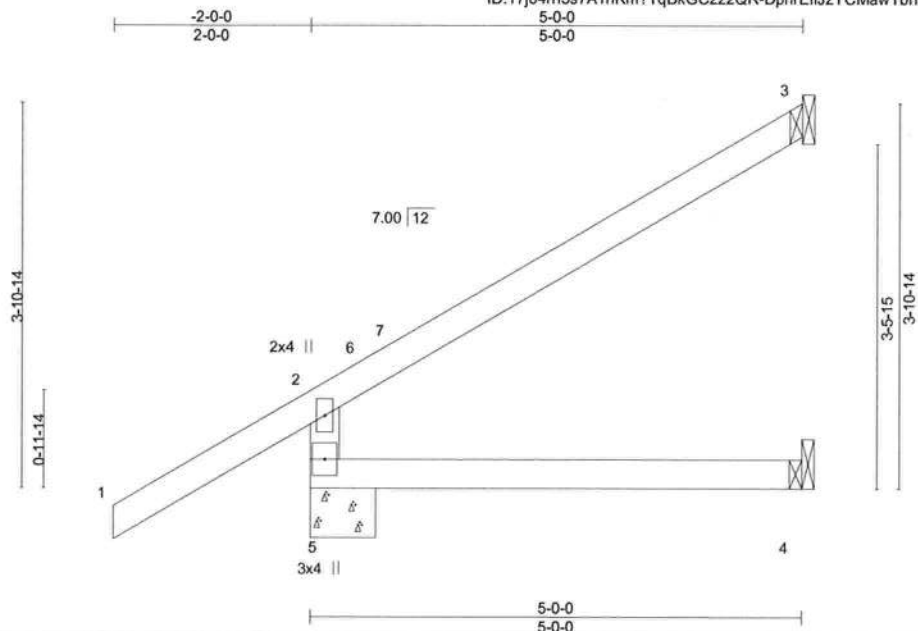


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	J2	Jack-Open	8	1	T26515525

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:54 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-DphrEflJzYCMawTbhaQjkwcn3BsiUQmWj0hG_zw8c?



Scale = 1:22.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 21 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=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=128(LC 12)
Max Uplift 5=-32(LC 12), 3=-39(LC 12)
Max Grav 5=349(LC 1), 3=119(LC 17), 4=87(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-299/144

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

January 13, 2022



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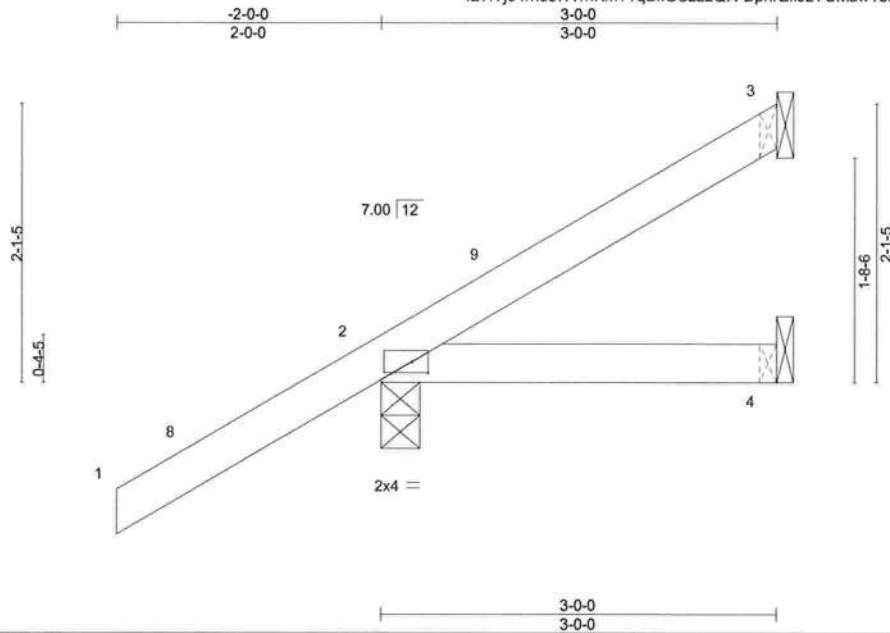


6904 Parke East Blvd.
Tampa, FL 33610

Job TOWNSEND	Truss J2C	Truss Type Jack-Open	Qty 2	Ply 1	Townsend	T26515526
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:54 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-DphrEflJzYCMawTbhaQjkwcoO3DOIUQmWf0hG_zw8c?



Scale = 1:16.8

Plate Offsets (X,Y)-- [2:0-1-7,0-1-0]											
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	0.24	Vert(LL)	-0.00 4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25		BC	0.07	Vert(CT)	-0.01 4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.00	Horz(CT)	0.00 3	n/a	n/a		
BCDL	10.0	Code FBC2020/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=84(LC 12)
Max Uplift 3=-10(LC 12), 2=-61(LC 12)
Max Grav 3=58(LC 17), 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 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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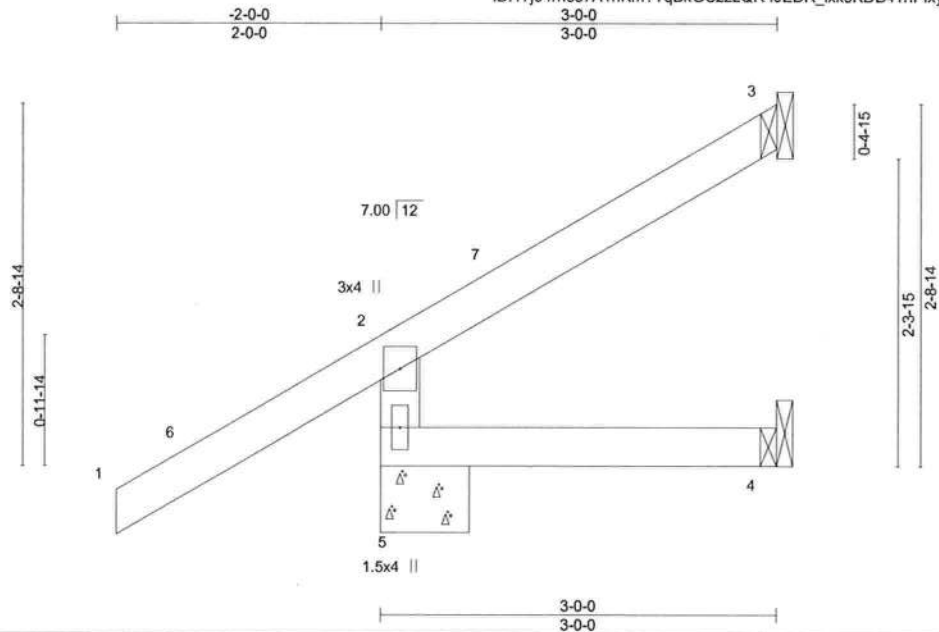


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Job	Truss	Truss Type	Qty	Ply	Townsend	
TOWNSEND	J3	Jack-Open	11	1		T26515527
Job Reference (optional)						

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:55 2022 Page 1
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Scale = 1:16.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.00 4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						
								Weight: 14 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) 5=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=100(LC 12)
Max Uplift 5=-47(LC 12), 3=-17(LC 12)
Max Grav 5=290(LC 1), 3=52(LC 17), 4=47(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.



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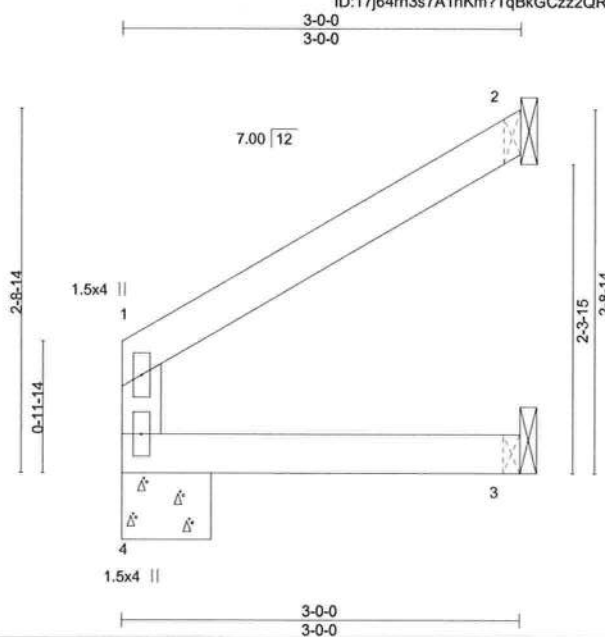
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515528
TOWNSEND	J3A	Jack-Open	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:56 2022 Page 1

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Scale = 1:16.7

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 0.11	Vert(LL)	-0.00	3-4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	3-4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR						Weight: 11 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) 4=0-8-0, 2=Mechanical, 3=Mechanical
Max Horz 4=54(LC 12)
Max Uplift 2=-30(LC 12)
Max Grav 4=112(LC 1), 2=79(LC 17), 3=54(LC 3)

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

NOTES-

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



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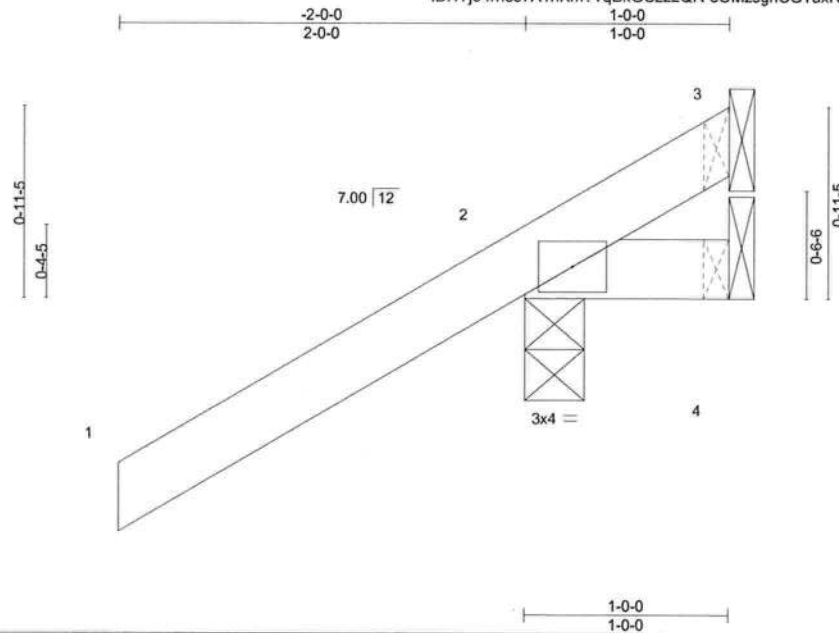


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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515529
TOWNSEND	J3C	Jack-Open	2	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:57 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-eOMzsgnCGTaxRNBAMI_QMZDIIHFCvrACChELsJzw8by



Scale = 1:10.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	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 FBC2020/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=57(LC 12)
Max Uplift 3=-29(LC 1), 2=-118(LC 12), 4=-53(LC 1)
Max Grav 3=26(LC 12), 2=281(LC 1), 4=43(LC 12)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=118.



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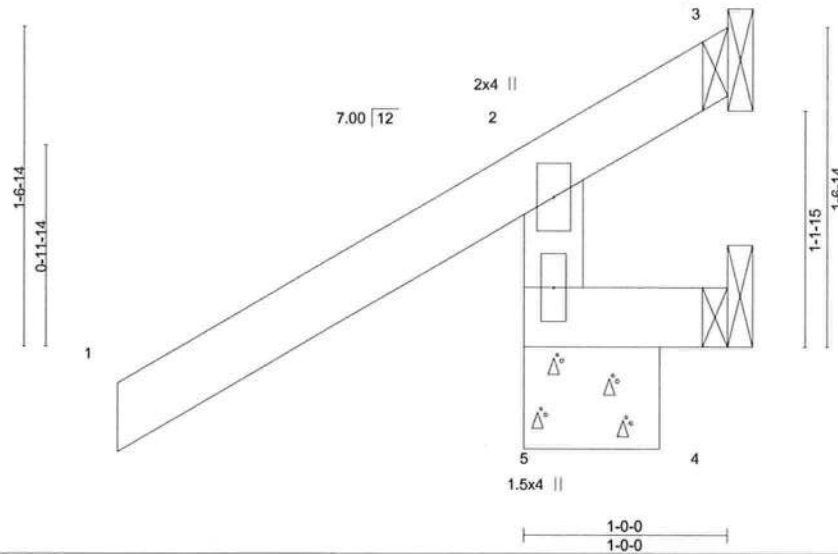
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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515530
TOWNSEND	J4	Jack-Open	11	1		
Mayo Truss Company, Inc., Mayo, FL - 32066,						Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:57 2022 Page 1
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-2-0-0
2-0-0
1-0-0
1-0-0

Scale = 1:10.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.31	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	>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 FBC2020/TPI2014		Matrix-MR						Weight: 8 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=0-8-0, 3=Mechanical, 4=Mechanical
Max Horz 5=73(LC 12)
Max Uplift 5=92(LC 12), 3=99(LC 1), 4=31(LC 1)
Max Grav 5=327(LC 1), 3=41(LC 12), 4=4(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-278/243

NOTES-

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



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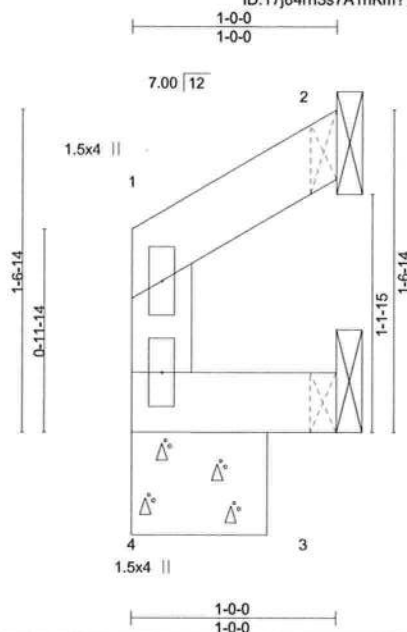
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend
TOWNSEND	J4A	Jack-Open	1	1	T26515531

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:10:58 2022 Page 1

ID:17j64rh3s7A1hKm?TqBkGCzz2QR-6bwL40oq1nio2XmMwQVgvmXohb4eIQMRL_uOlzw8bx



Scale = 1:10.8

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 0.02	Vert(LL)	-0.00	4	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	4	>999	180		
BCCL 0.0 *	Rep Stress Index	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2010/TPI2014		Matrix-MR						Weight: 4 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) 4=0-8-0, 2=Mechanical, 3=Mechanical
Max Horz 4=27(LC 12)
Max Uplift 2=-15(LC 12), 3=-5(LC 12)
Max Grav 4=34(LC 1), 2=27(LC 17), 3=16(LC 3)

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

NOTES-

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



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Date:

January 13,2022

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515532
TOWNSEND	M1GE	Monopitch Supported Gable	1	1		
Mayo Truss Company, Inc., Mayo, FL - 32066,						Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:00 2022 Page 1
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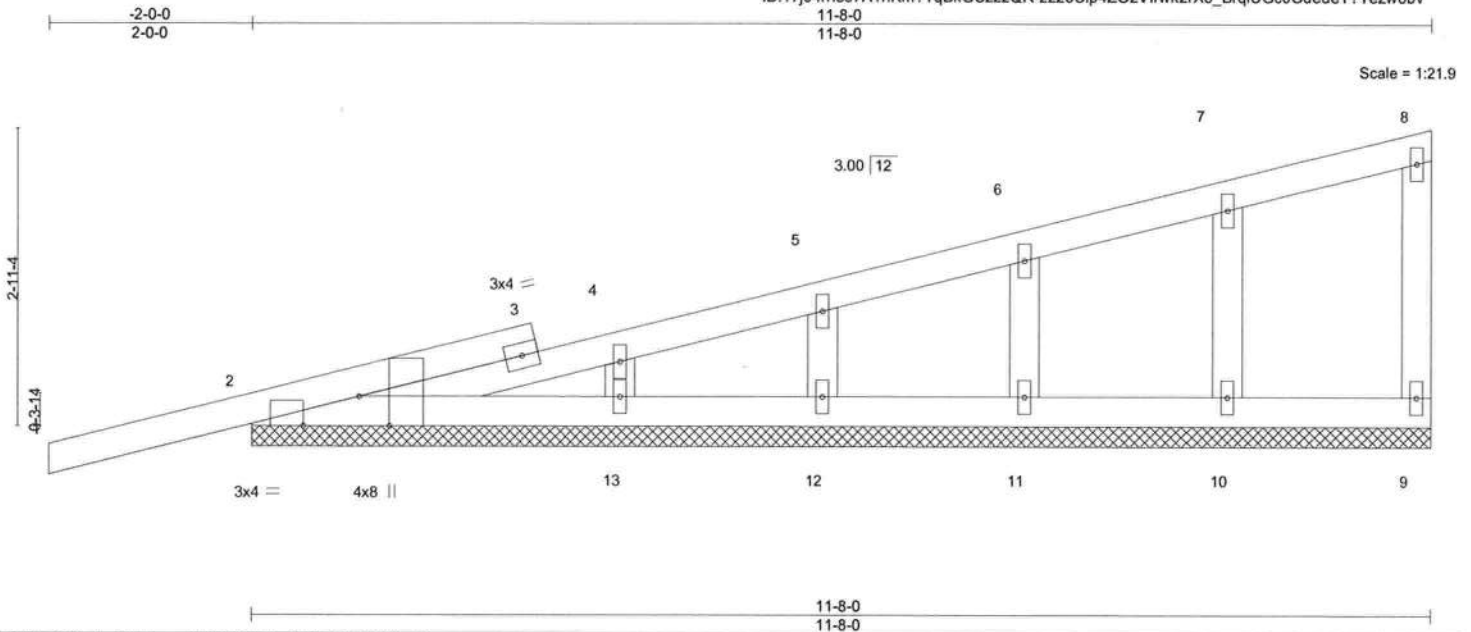


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-6-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 51 lb	FT = 20%

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

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

REACTIONS. All bearings 11-8-0.
(lb) - Max Horz 2=80(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 12
Max Grav All reactions 250 lb or less at joint(s) 9, 10, 11, 12, 13 except 2=287(LC 1)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -2-0-0 to 1-0-0, Exterior(2N) 1-0-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 12.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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January 13,2022

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515533
TOWNSEND	M2	Monopitch	1	1		

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

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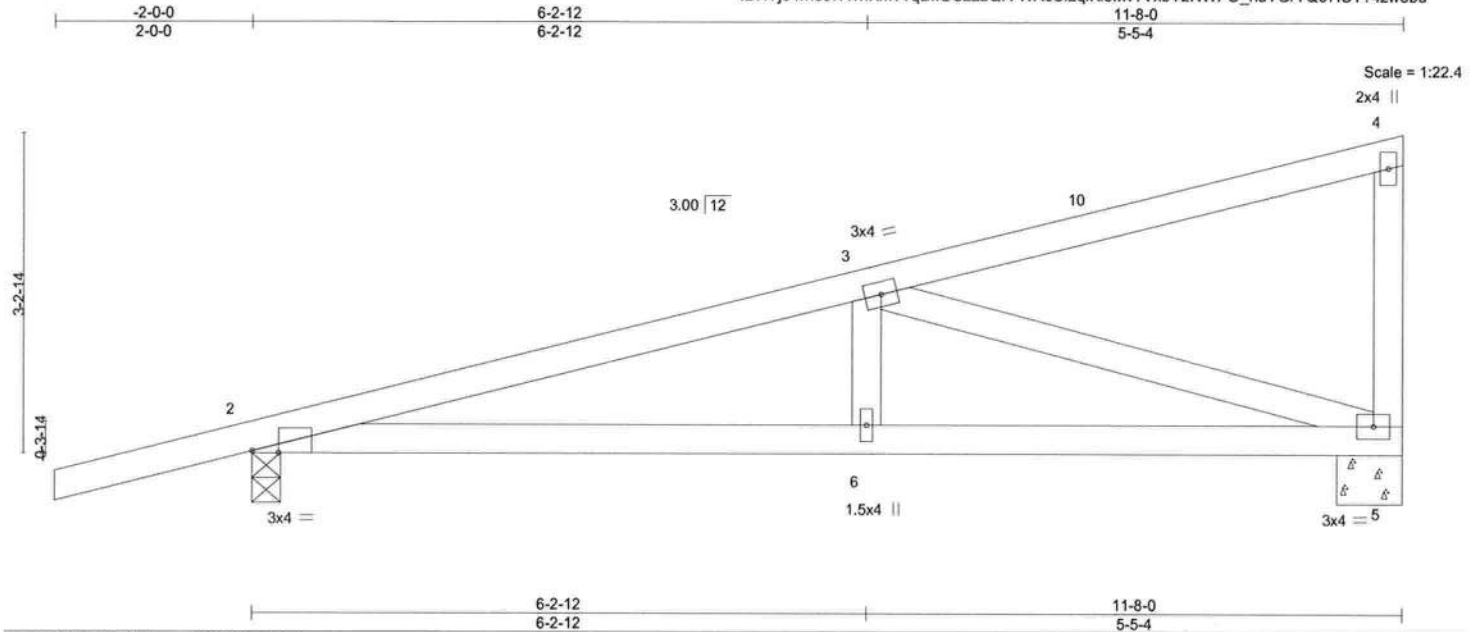


Plate Offsets (X,Y)--		[2:0-3-4,Edge]									
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)	
TCLL	20.0	Plate Grip DOL	1.25	TC		0.30		Vert(LL)	-0.04	6-9	>999
TCDL	10.0	Lumber DOL	1.25	BC		0.38		Vert(CT)	-0.10	6-9	>999
BCLL	0.0 *	Rep Stress Incr	YES	WB		0.50		Horz(CT)	0.02	5	n/a
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS				L/d		240	
								PLATES		GRIP	
								MT20		244/190	
								Weight: 52 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, 5=0-8-0
Max Horz 2=89(LC 11)
Max Uplift 2=-106(LC 12), 5=-51(LC 12)
Max Grav 2=591(LC 1), 5=450(LC 1)

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

TOP CHORD 2-3=-992/243
BOT CHORD 2-6=-307/942, 5-6=-307/942
WEBS 3-5=-948/295

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-1-0, Interior(1) 1-1-0 to 11-6-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 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) 5 except (jt=lb) 2=106.
- 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 33610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515534
TOWNSEND	PB01	Piggyback	1	1		

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

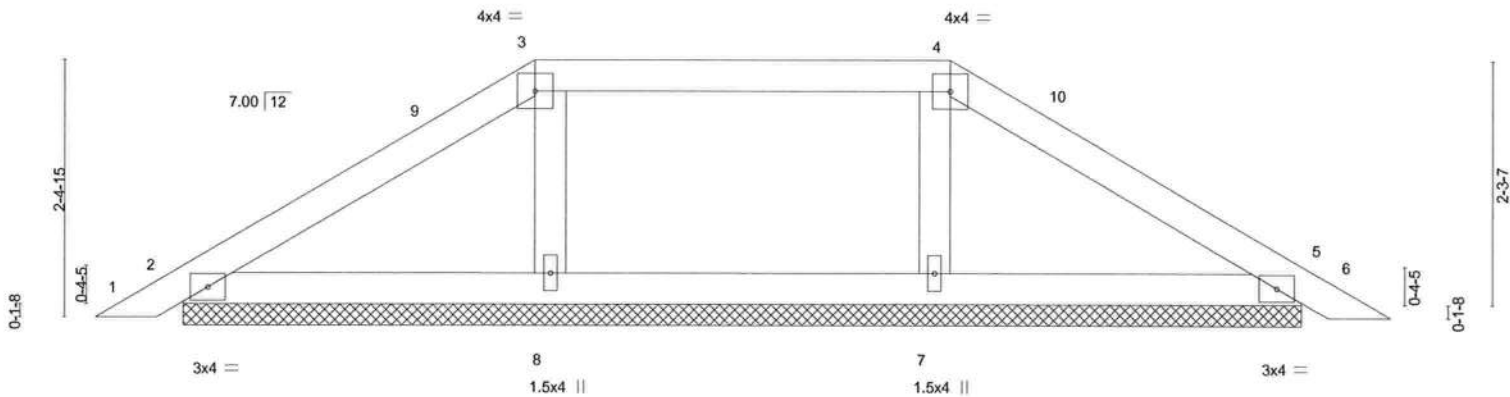
8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:02 2022 Page 1

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Job Reference (optional)

4-1-11	8-0-5	12-2-0
4-1-11	3-10-11	4-1-11

Scale = 1:20.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.17	Vert(LL)	0.00	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	0.00				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							
								Weight: 41 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 10-6-2.
(lb) - Max Horz 2=-39(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=297(LC 21), 7=297(LC 22)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-1-11, Exterior(2E) 4-1-11 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

January 13,2022



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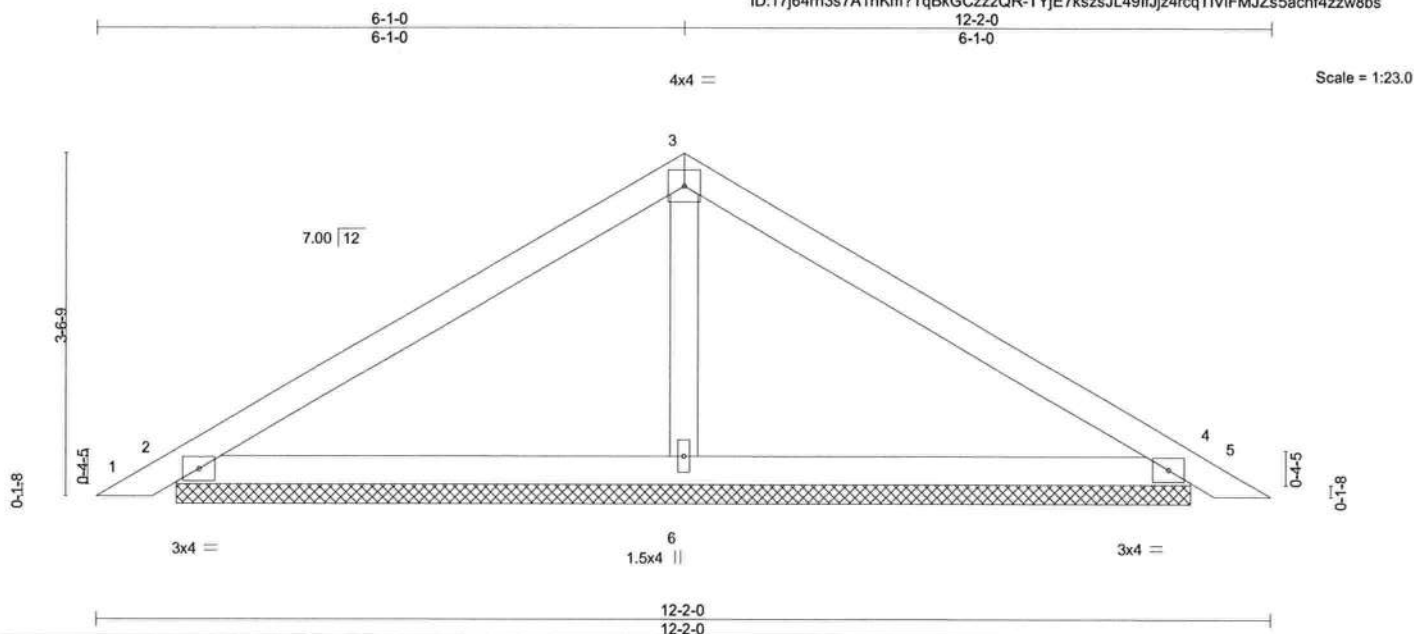


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Townsend	T26515535
TOWNSEND	PB02	Piggyback	3	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:03 2022 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 0.35	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	0.02	5	n/r	120		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 41 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=10-6-2, 4=10-6-2, 6=10-6-2
Max Horz 2=-59(LC 10)
Max Uplift 2=-27(LC 12), 4=-27(LC 12)
Max Grav 2=231(LC 21), 4=231(LC 22), 6=443(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-283/83

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 6-1-0, Exterior(2R) 6-1-0 to 9-1-0, Interior(1) 9-1-0 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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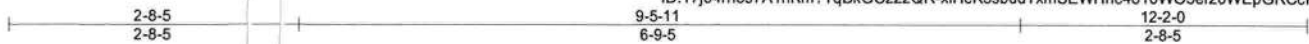
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Job	Truss	Truss Type	Qty	Ply	Townsend	T26515536
TOWNSEND	PB03	Piggyback	1	1		

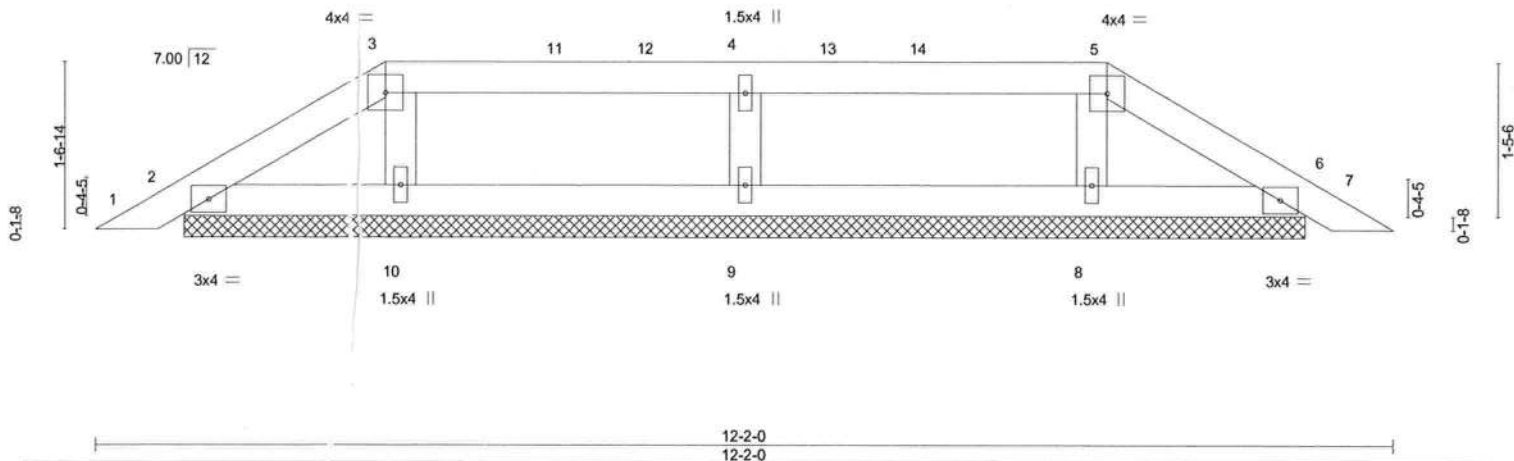
Mayo Truss Company, Inc., Mayo, FL 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:04 2022 Page 1

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Scale = 1:20.8



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 0.14	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IBC2020/TPI2014		Matrix-S					Weight: 39 lb	FT = 20%

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

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

REACTIONS. All bearings 10-6-22.
(lb) - Max Horz 2=-25(LC: 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=304(LC 21)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4, Interior(1) 6-11-4 to 9-5-11, Exterior(2E) 9-5-11 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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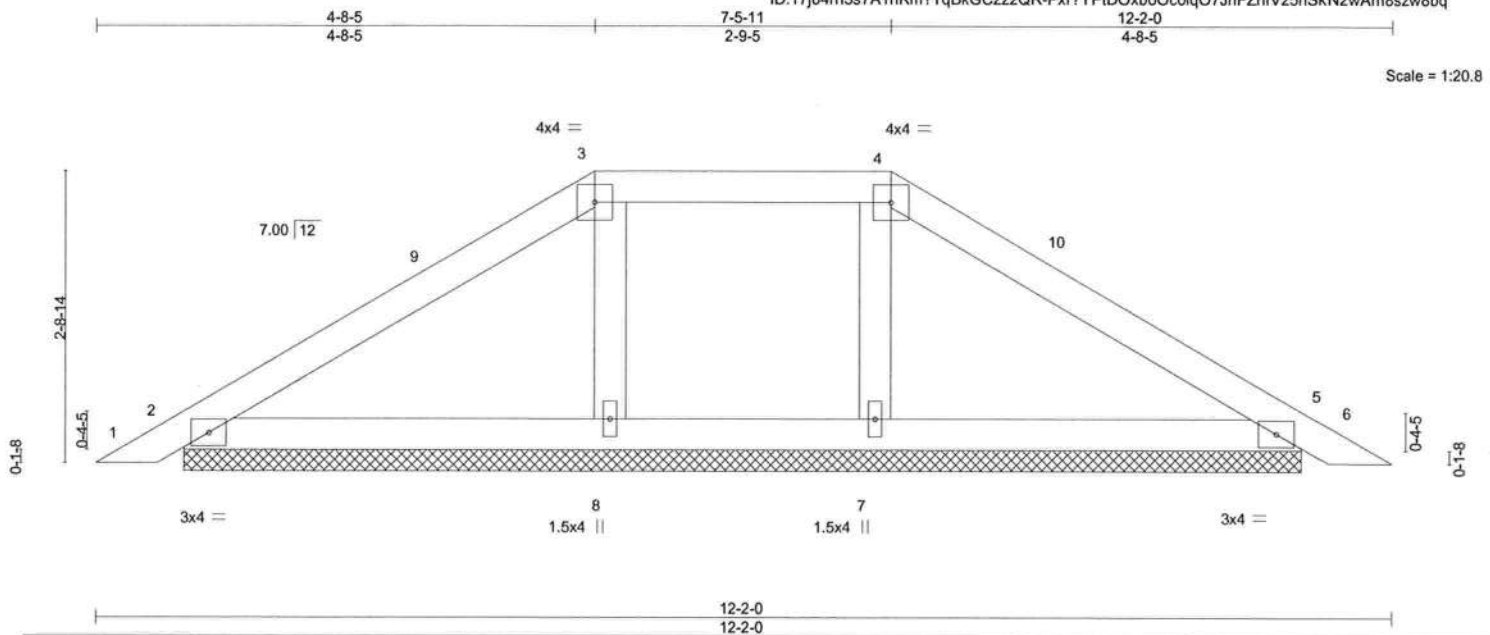


6904 Parke East Blvd.
Tampa, FL 33610

Job TOWNSEND	Truss PB04	Truss Type Piggyback	Qty 1	Ply 1	Townsend T26515537
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:05 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-Pxr?YPIDOxboOcoiqO7JhFZhVz5nSkN2wAm8szw8bq



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 0.18	Vert(LL)	0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.13	Vert(CT)	0.01	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 42 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. All bearings 10-6-2.
(lb) - Max Horz 2=45(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5
Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=280(LC 21), 7=280(LC 22)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 3-3-8, Interior(1) 3-3-8 to 4-8-5, Exterior(2E) 4-8-5 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

January 13,2022



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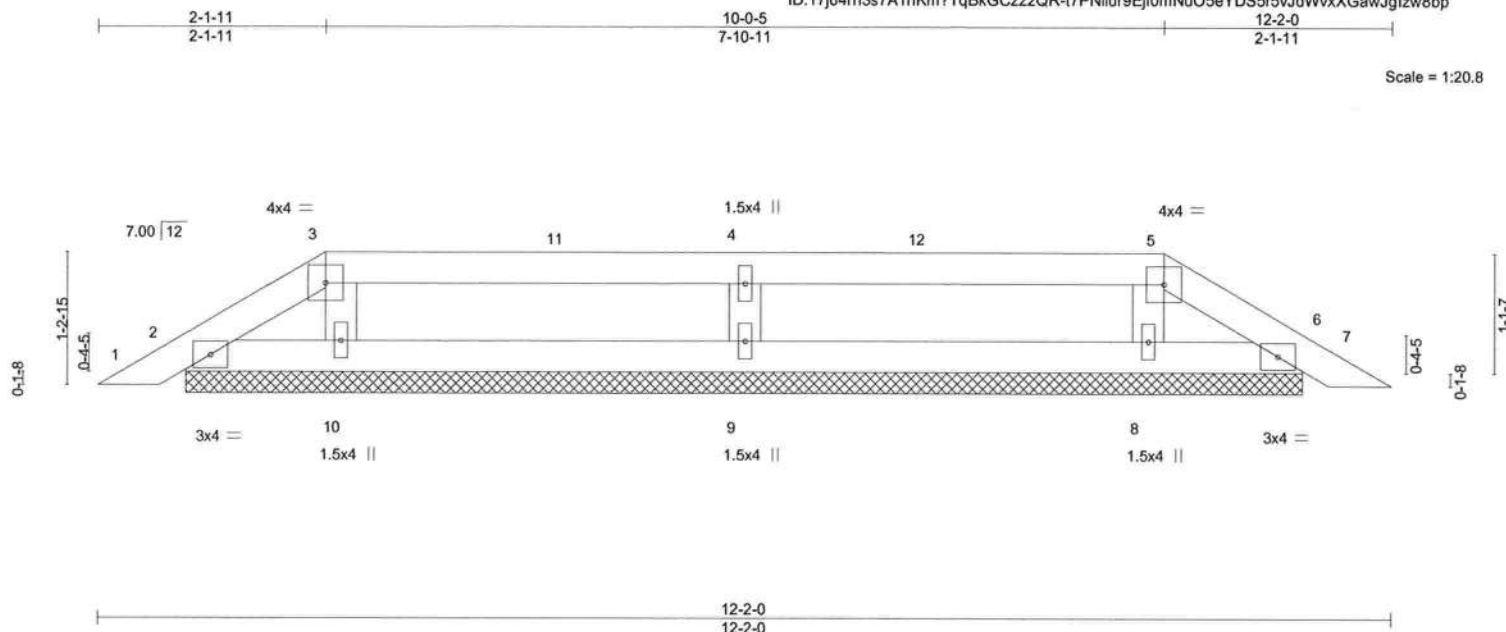
6904 Parke East Blvd.
Tampa, FL 33610

Job TOWNSEND	Truss PB06	Truss Type Piggyback	Qty 1	Ply 1	Townsend T26515538
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:06 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-17PNllur9Ej0mNuO5eYDS5r5vJdWvxXGawJglzw8bp

Scale = 1:20.8



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 0.20	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 37 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 10-6-2.
(lb) - Max Horz 2=-19(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 10, 8 except 9=356(LC 21)

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

WEBS 4-9=-275/86

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-8 to 2-1-11, Exterior(2R) 2-1-11 to 6-1-0, Interior(1) 6-1-0 to 10-0-5, Exterior(2E) 10-0-5 to 11-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Date:

January 13, 2022



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Tampa, FL 33610

Mayo Truss Company, Inc.,	Mayo, FL - 32066.
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8.430 s Aug 16 2021 MiTek Industries, Inc. Wed Jan 12 09:11:06 2022 Page 1
ID:17j64rh3s7A1hKm?TqBkGCzz2QR-i7PNllur9Eif0mNuO5eYDS5uovJyWvOXGawJqJwz8bp

Weight: 12 lb FT = 20%

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

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

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

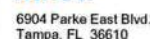


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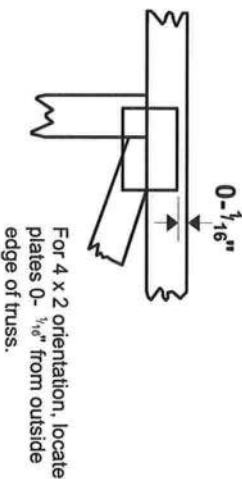
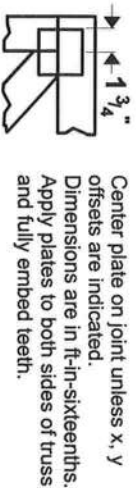
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



Symbols

PLATE LOCATION AND ORIENTATION



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

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

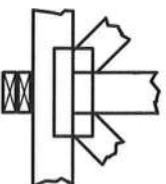
PLATE SIZE

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

LATERAL BRACING LOCATION



BEARING



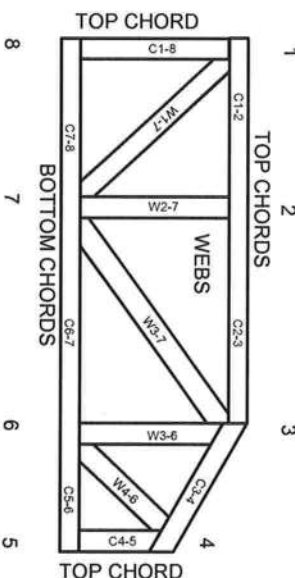
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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 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 l 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 warps 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.