



RE: Evans - Evans

MiTek USA, Inc.

6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: SCCI Project Name: . Model: .

Lot/Block: .

Subdivision: .

Address: ., .

City: Columbia County

State: FI

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10

Wind Speed: 130 mph

Roof Load: 40.0 psf

Floor Load: N/A psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T21316450	CJ01	9/16/20
2	T21316451	H01	9/16/20
3	T21316452	J01	9/16/20
4	T21316453	J02	9/16/20
5	T21316454	J03	9/16/20
2 3 4 5 6 7 8 9 10	T21316455	J04	9/16/20
7	T21316456	T01	9/16/20
8	T21316457	T02	9/16/20
9	T21316458	T03	9/16/20
10	T21316459	T04	9/16/20
11	T21316460	T05	9/16/20
12	T21316461	T06	9/16/20



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

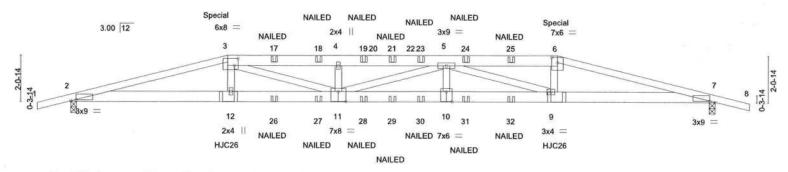
Truss Design Engineer's Name: Reviewed

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

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.



Scale = 1:51.6



"Special" indicates special hanger(s) or other connection device(s) required at location(s)shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

	L.	7-0-0	1	11-11-4	Ĩ.	16-8-12	T.	21-8	-0	r e	28-8-0	- 9
		7-0-0		4-11-4		4-9-8		4-11	-4		7-0-0	
Plate Offse	ets (X,Y)-	[2:0-2-12,0-0-10], [3:0-2-0	0,0-3-12], [6:0-	3-0,0-2-14], [7:0-2-12,0-0	0-10], [10:0-3-0,0-5	-4], [11:0	4-0,0-	5-4]			
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	0.65	Vert(LL)	-0.40 1		>853	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.80 1	0-11	>424	180	(1514.1550)	077 074 774 1577 774 15
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.36	Horz(CT)	0.11	7	n/a	n/a		
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MS						Weight: 310 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD

2x4 SP No.2 *Except*

3-6: 2x6 SP No.2

BOT CHORD 2x6 SP SS

WEBS 2x4 SP No.2

REACTIONS.

(size) 2=0-3-0, 7=0-3-0

Max Horz 2=26(LC 21)

Max Uplift 2=-350(LC 8), 7=-350(LC 8) Max Grav 2=2437(LC 1), 7=2437(LC 1)

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

TOP CHORD **BOT CHORD**

2-3=-8614/984, 3-4=-11296/1270, 4-5=-11290/1268, 5-6=-8420/973, 6-7=-8571/978 2-12=-887/8318, 11-12=-889/8373, 10-11=-1210/11440, 9-10=-1210/11440,

7-9=-881/8276 **WEBS**

3-12=-26/639, 3-11=-315/3217, 4-11=-775/244, 5-10=0/429, 5-9=-3319/337,

6-9=-126/1609

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, 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 0-2-0 oc, Except member 11-3 2x4 - 1 row at 0-9-0 oc, member 4-11 2x4 - 1 row at 0-9-0 oc, member 11-5 2x4 - 1 row at 0-9-0 oc, member 5-10 2x4 - 1 row at 0-9-0 oc, member 9-5 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=29ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=350, 7=350
- 9) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 14-7-4 oc max. starting at 7-0-6 from the left end to 21-7-10 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

No 68 68182

Structural wood sheathing directly applied or 3-8-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 16,2020

Continued on page 2

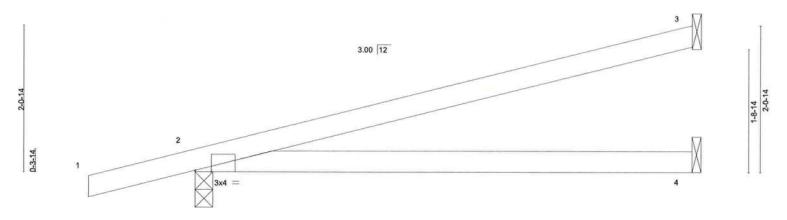
A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design value for secting with take commencies, risis essign is based only upon parameters shown, and is for an individual building 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

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



Job Qty Truss Truss Type Ply Evans T21316452 **EVANS** J01 Jack-Open 1 Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066. 8.420 s Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 09:57:27 2020 Page 1 ID:LQdYVafHUsydlga4Oy3bQMyiOQq-KjsQFUcE?9uCqZ_T_cvjj79Ubj5CtPfecjbdwkyd5Ac 7-0-0 7-0-0 1-6-0

Scale = 1:16.3



7-0-0 Plate Offsets (X,Y)--[2:0-2-12,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. PLATES GRIP I/defl (loc) L/d TCLL 20.0 Plate Grip DOL 1 25 TC 0.58 244/190 Vert(LL) 0.11 4-7 >743 240 MT20 BC TCDL 10.0 Lumber DOL 1.25 0.47 Vert(CT) -0.214-7 >401 180 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 2 n/a n/a BCDL 10.0 Code FBC2017/TPI2014 Matrix-AS Weight: 24 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

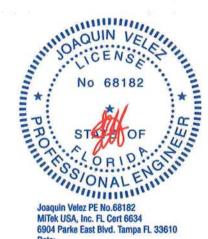
(size) 3=Mechanical, 2=0-3-0, 4=Mechanical Max Horz 2=82(LC 12)

Max Uplift 3=-62(LC 12), 2=-102(LC 12)

Max Grav 3=183(LC 1), 2=377(LC 1), 4=121(LC 3)

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

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=102.
- 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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September 16,2020

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ANSITPIT 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.

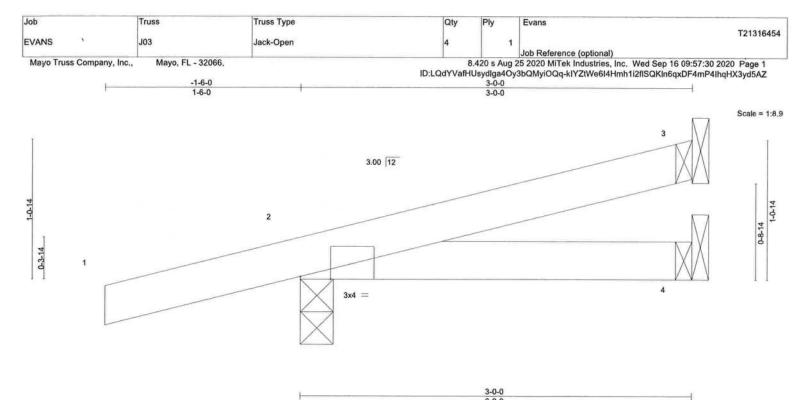


Plate Off	ate Offsets (X,Y) [2:0-2-12,Edge]													
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	-0.00	7	>999	240	MT20	244/190		
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	7	>999	180	3110000000	000000000000000000000000000000000000000		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a				
BCDL	10.0	Code FBC2017/T	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%		

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 3=Mechanical, 2=0-3-0, 4=Mechanical

Max Horz 2=46(LC 12)

Max Uplift 3=-15(LC 12), 2=-94(LC 12) Max Grav 3=62(LC 1), 2=230(LC 1), 4=48(LC 3)

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

NOTES-

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



Structural wood sheathing directly applied or 3-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

September 16,2020

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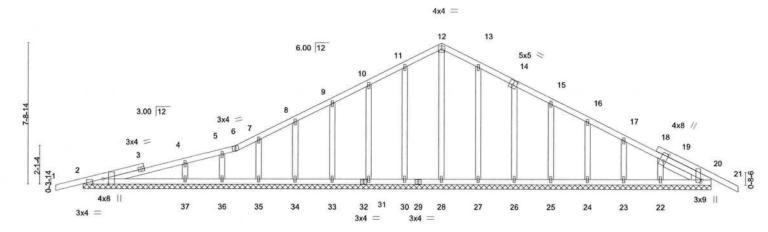
ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Evans T21316456 **EVANS** T01 ROOF SPECIAL STRUCTU Job Reference (optional)

8.410 s May 22 2020 MiTek Industries, Inc. Wed Sep 16 11:34:16 2020 Page 1
ID:LQdYVafHUsydlga4Oy3bQMyiOQq-?qS75xqekiSBEHkmuV5Tdi93JB4syRHnavC0yCyd4e5 Mayo Truss Company, Inc., Mayo, FL - 32066, 19-7-3 34-4-0 14-8-13

Scale: 3/16"=1"



						34-4-0									
						34-4-0									
Plate Offse	ets (X,Y)	[2:0-3-8,Edge], [2:0-6-12,	:0-3-8,Edge], [2:0-6-12,Edge], [14:0-2-8,0-3-0], [19:0-5-0,0-1-13], [20:0-1-12,0-1-0]												
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	0.32	Vert(LL)	-0.01	21	n/r	120	MT20	244/190			
TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.01	21	n/r	120					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	20	n/a	n/a					
BCDL	10.0	Code FBC2017/TI	PI2014	Matri	x-S						Weight: 203 lb	FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Right: 2x4 SP No.2

REACTIONS. All bearings 34-4-0.

Max Horz 2=196(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 30, 31, 33, 34, 35, 36, 37, 27, 26, 25, 24, 23, 22, 20 Max Grav All reactions 250 lb or less at joint(s) 28, 30, 31, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 20 except 2=291(LC 1), 37=415(LC 1)

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

TOP CHORD 11-12=-85/266, 12-13=-85/266

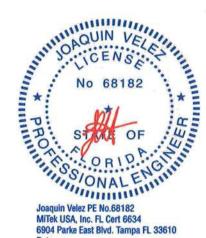
WEBS 4-37=-297/193

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads,
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 30, 31, 33, 34, 35, 36, 37, 27, 26, 25, 24, 23, 22, 20.

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

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

September 16,2020

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Job Truss Type Qty Ply Truss Evans T21316458 **EVANS** T03 Roof Special Structural Gable Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066 8.420 s Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 09:57:35 2020 Page 1 ID:LQdYVafHUsydlga4Oy3bQMyiOQq-5FLSxDiF7cv3oob0Sl2b1pVspyqwlo4pSzX2CHyd5AU 1-6-0 8-2-11 15-6-0 7-3-5 26-9-13 35-10-0 4-7-13 4-1-3 7-6-3 1-6-0

Scale = 1:60.8

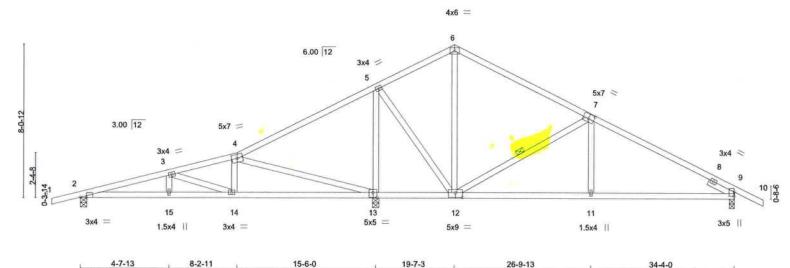


Plate Offs	ets (X.Y)	4-7-13 [2:0-3-12.Edg	3-6-13 el. [7:0-3-8.0	0-3-01. [9:0-2	7-3-5 2-11.0-0-31, [12	:0-4-8.0-3-0	4-1-3], [13:0-2-8,0-3-0]			7-2-11		7-6-3	
LOADING		SPACI	7135350	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	100000000000000000000000000000000000000	rip DOL	1.25	TC	0.57	Vert(LL)	-0.07		>999	240	MT20	244/190
TCDL	10.0	Lumbe	DOL	1.25	BC	0.48	Vert(CT)	-0.14	13-14	>999	180	ACTION CONT.	
BCLL	0.0 *	Rep St	ress Incr	YES	WB	0.93	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code F	BC2017/TP	12014	Matri	x-AS						Weight: 181 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

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

2x4 SP No.2 **WEBS**

SLIDER Right 2x4 SP No.2 -t 1-6-0

REACTIONS.

(size) 2=0-4-0, 13=0-4-0, 9=0-3-0

Max Horz 2=202(LC 11)

Max Uplift 2=-128(LC 12), 13=-236(LC 12), 9=-153(LC 12) Max Grav 2=477(LC 21), 13=1809(LC 1), 9=721(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-821/304, 3-4=-342/159, 4-5=-163/793, 7-9=-828/286

TOP CHORD **BOT CHORD**

2-15=-212/780, 14-15=-212/780, 13-14=-60/303, 12-13=-582/354, 11-12=-110/674, 9-11=-109/677

3-14=-495/190, 4-14=0/367, 4-13=-908/417, 5-13=-1429/553, 5-12=-194/934,

6-12=-311/44, 7-12=-714/369, 7-11=0/315

NOTES-

WEBS

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

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) 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) except (jt=lb) 2=128, 13=236, 9=153.
- 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.



Joaquin Velez PE No.68182 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

September 16,2020

A 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 besign value for easign is based only upon parameters shown, and is for an individual obusing 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Tampa, FL 36610

Job Truss Truss Type Qty Ply Evans T21316460 **EVANS** T05 Roof Special Job Reference (optional) Mayo, FL - 32066. Mayo Truss Company, Inc. 8.420 s Aug 25 2020 MiTek Industries, Inc. Wed Sep 16 09:57:36 2020 Page 1 ID:LQdYVafHUsydlga4Oy3bQMyiOQq-ZSvq8Zjtuw1wPyAC0?Zqa01ybL6jUKGyhdHckjyd5AT 1-6-0 15-8-0 19-7-3 24-10-0 29-5-4 3-11-3 4-10-12

Scale = 1:61.8

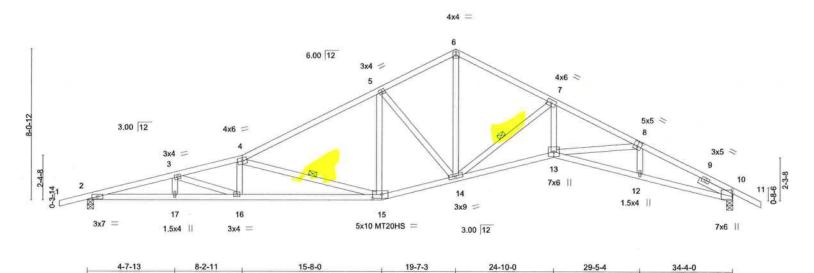


Plate Offsets (X,Y)	[8:0-2-8,0-3-0], [10:0-2-7,	0-0-6], [15:0-6-	0,0-2-8]			N. 1	4-10-12		
OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	-0.37 15-16	>999 240	MT20	244/190	
TCDL 10.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.82 15-16	>504 180	MT20HS	187/143	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.33 10	n/a n/a	300 000 000		
BCDL 10.0	Code FBC2017/TF	PI2014	Matrix-AS				Weight: 185 lb	FT = 20%	

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD

2x4 SP No.2 *Except* 8-11: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

2-15: 2x4 SP No.1, 10-13: 2x4 SP SS

2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -t 2-0-0

REACTIONS.

2=0-4-0, 10=0-4-0 (size)

Max Horz 2=202(LC 11) Max Uplift 2=-259(LC 12), 10=-259(LC 12)

Max Grav 2=1463(LC 1), 10=1463(LC 1)

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

TOP CHORD 2-3=-4639/1599, 3-4=-4322/1503, 4-5=-2398/882, 5-6=-1986/814, 6-7=-1991/790,

7-8=-3773/1256, 8-10=-3659/1225

BOT CHORD 2-17=-1465/4477, 16-17=-1465/4477, 15-16=-1355/4167, 14-15=-584/2142,

13-14=-938/3475, 12-13=-1001/3287, 10-12=-982/3231

WEBS 3-16=-333/137, 4-16=0/353, 4-15=-2183/836, 5-15=-26/296, 5-14=-597/343,

6-14=-560/1488, 7-14=-2102/716, 7-13=-427/1751

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 10=259.
- 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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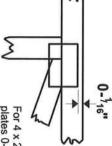
Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.

Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

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

PLATE SIZE

4 x 4

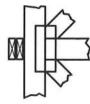
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

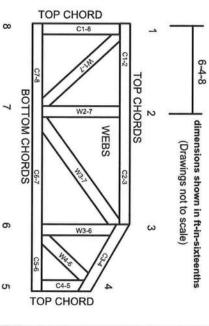
Industry Standards:

ANSI/TPI1:

DSB-89:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 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.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.



Mary Ann Crawford <maryann@stanleycrawfordconstruction.com>

Message from KM_C250i

MANDY RHODEN <fordseptic@yahoo.com>
To: Mary Ann Crawford <mac@scci83.com>

Wed, Sep 16, 2020 at 3:25 PM

The cost for those jobs are:

Waters job - \$ 2450.00

Cook job- \$ 9650.00

Thank You! Mandy

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