



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

RE: tamela\_mueller - Tamela Mueller

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

**Site Information:**

Customer Info: Lee Holloway 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

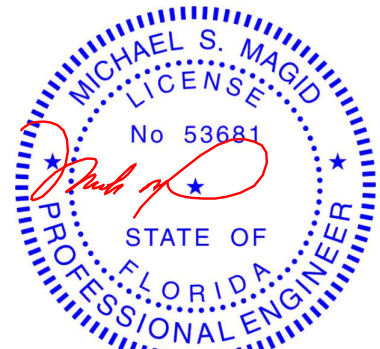
This package includes 4 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T23813794	A9	5/4/21
2	T23813795	A10	5/4/21
3	T23813796	B6	5/4/21
4	T23813797	B7	5/4/21

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: Magid, Michael  
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.



Michael S. Magid PE No.53681  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 4, 2021

Job TAMELA_MUELLER	Truss A9	Truss Type Piggyback Base	Qty 1	Ply 1	Tamela Mueller	T23813794
Job Reference (optional)						

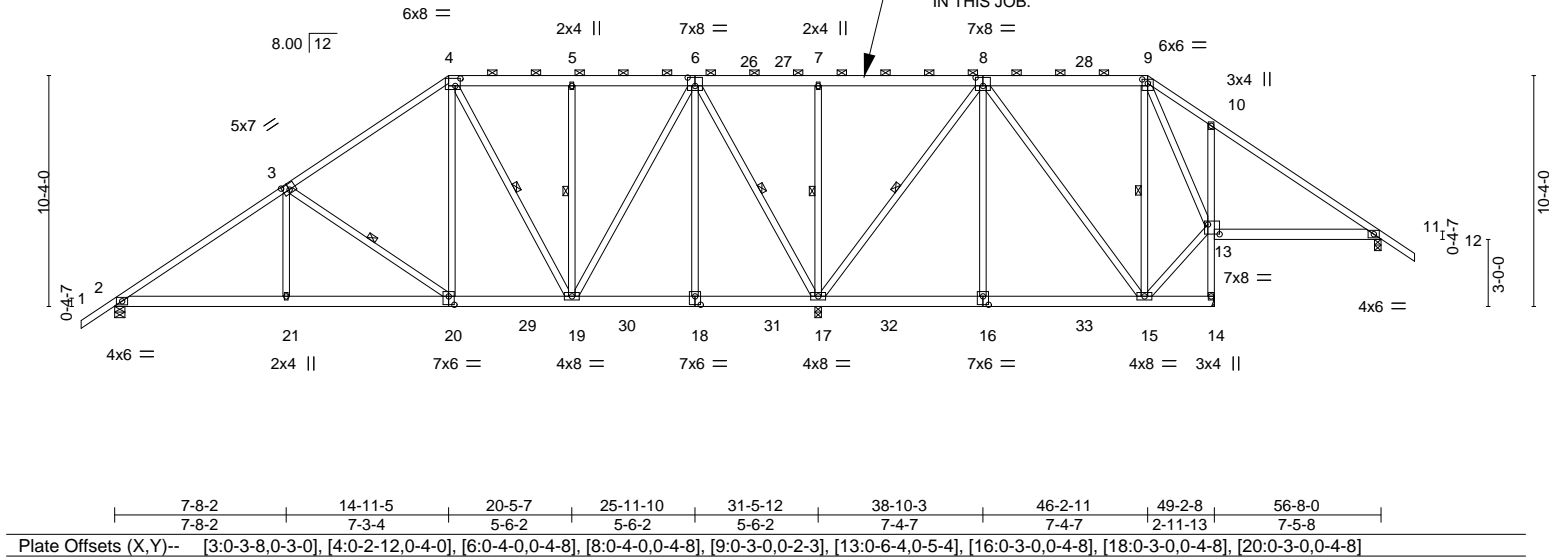
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 3 14:42:32 2021 Page 1  
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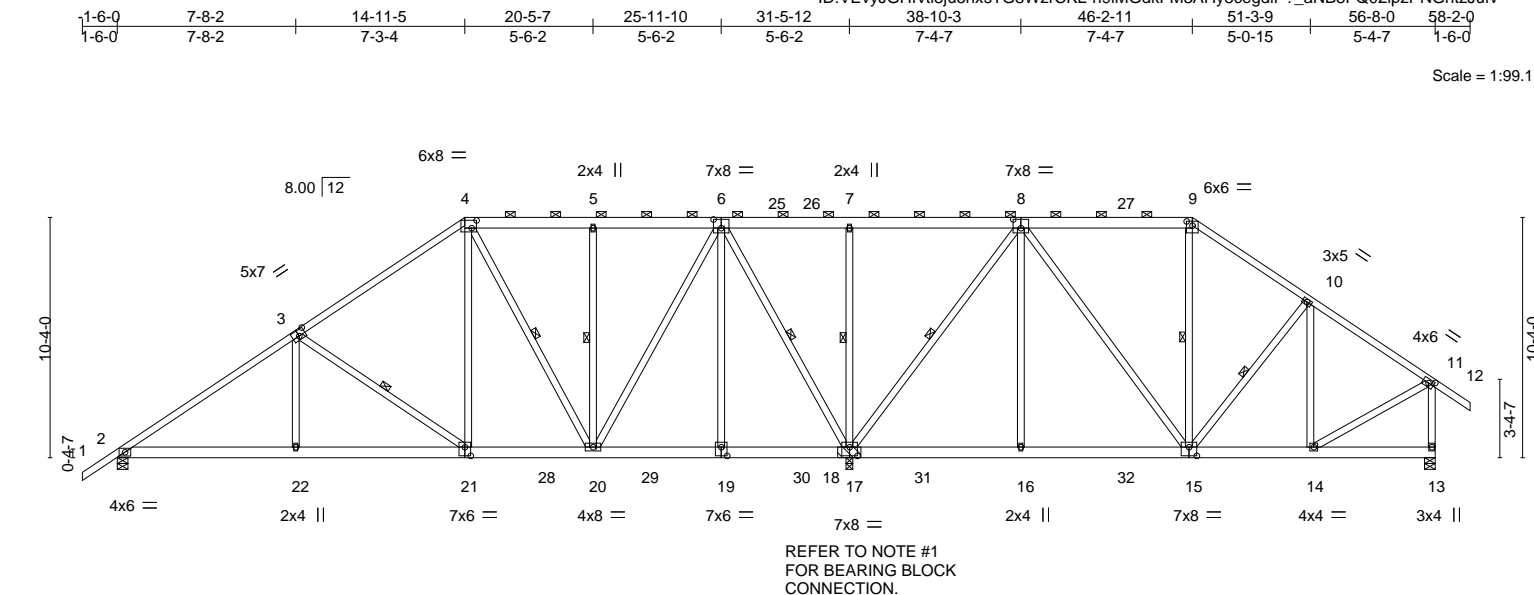
1-6-0 7-8-2 14-11-5 20-5-7 25-11-10 31-5-12 38-10-3 46-2-11 49-2-8 56-8-0 58-2-0  
1-6-0 7-8-2 7-3-4 5-6-2 5-6-2 5-6-2 7-4-7 7-4-7 2-11-13 7-5-8 1-6-0

TOP CHORD UNDER PIGGYBACKS TO BE Laterally  
BRACED BY PURLINS AT 2-0-0 O.C. MAXIMUM.  
TYPICAL FOR ALL APPLICABLE TRUSS DESIGNS  
IN THIS JOB.

Scale = 1:103.1



8.430 s Mar 22 2021 MiTek Industries, Inc. Tue May 4 12:23:32 2021 Page 1  
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Plate Offsets (X,Y)-- [3:0-3-8,0-3-0], [4:0-2-8,0-4-0], [6:0-4-0,0-4-8], [8:0-4-0,0-4-8], [9:0-3-0,0-2-3], [11:0-2-14,0-2-0], [15:0-4-0,0-4-8], [17:0-4-0,0-4-8], [19:0-3-0,0-4-8], [21:0-3-0,0-4-8]														
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	0.48	Vert(LL)	-0.07 22-24	>999	240	MT20	244/190			
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.13 22-24	>999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.03 13	n/a	n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 479 lb	FT = 20%			

**LUMBER-**

TOP CHORD	2x4 SP No.2 *Except*
	4-6,8-9,6-8: 2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.2

**BRACING-**

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-9.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt                      3-21, 4-20, 5-20, 6-17, 7-17, 8-17, 9-15, 10-15

## REACTIONS.

(lb/size) 2=1136/0-5-8, 17=2742/(0-3-8 + bearing block) (req. 0-3-14), 13=832/0-5-8  
 Max Horz 2=381(LC 11)  
 Max Uplift 2=216(LC 12), 17=388(LC 12), 13=173(LC 12)  
 Max Grav 2=1336(LC 17), 17=3262(LC 17), 13=1024(LC 18)

**FORCES.**

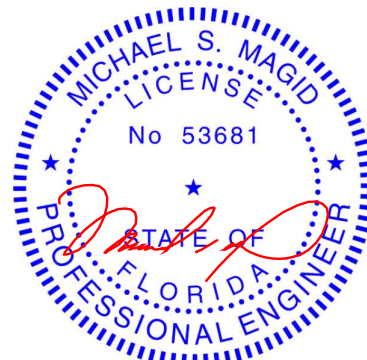
TOP CHORD 2-3=-1781/241, 3-4=-1103/260, 4-5=-578/245, 5-6=-577/243, 6-25=0/823, 25-26=0/823,  
7-26=0/823, 7-8=0/823, 8-27=-526/229, 9-27=-524/229, 9-10=-677/224, 10-11=-776/177,  
11-13=-938/203

BOT CHORD 2-22=-103/1612, 21-22=-104/1607, 21-28=-18/954, 20-28=-18/954, 14-15=0/510  
WEBS 3-22=0/351, 3-21=-802/201, 4-21=-36/696, 4-20=-578/63, 5-20=-355/116,  
6-20=-123/1157, 6-19=0/278, 6-17=-1713/198, 7-17=-398/149, 8-17=-1435/178,  
8-16=0/426, 8-15=-59/495, 11-14=0/567

**NOTES-**

- 1) 2x6 SP No.2 bearing block 12" long at jt. 17 attached to front face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners. Bearing is assumed to be SP No.2.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=57ft; eave=7ft; 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
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 388 lb uplift at joint 17 and 173 lb uplift at joint 13.
- 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.

LOAD CASE(S) Standard



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Date:

May 4, 2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI 1 Quality Criteria, DSB-89 and BCS1 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 TAMELA_MUELLER	Truss B6	Truss Type Piggyback Base	Qty 1	Ply 1	Tamela Mueller Job Reference (optional)	T23813796
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Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 3 14:42:34 2021 Page 1  
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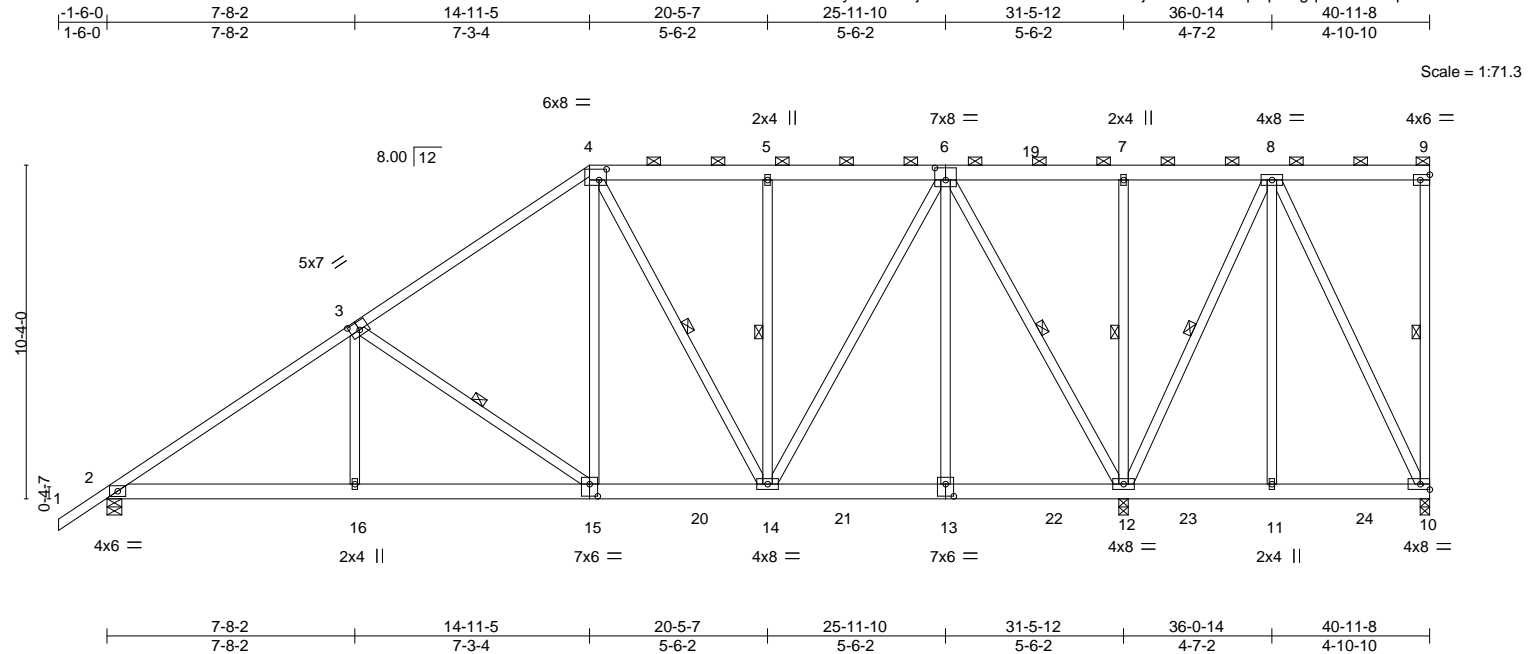


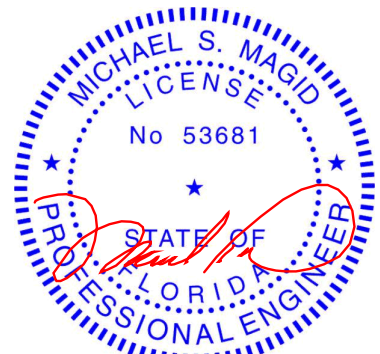
Plate Offsets (X,Y)-- [3:0-3-8,0-3-0], [4:0-2-12,0-4-0], [6:0-4-0,0-4-8], [9:Edge,0-2-0], [13:0-3-0,0-4-8], [15:0-3-0,0-4-8]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d			<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.07	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.14	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 369 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 4-6,6-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-9.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 9-10, 3-15, 4-14, 5-14, 6-12, 7-12, 8-12

**REACTIONS.** (size) 10=0-3-8, 2=0-5-8, 12=0-3-8  
Max Horz 2=460(LC 11)  
Max Uplift 10=-107(LC 17), 2=-215(LC 12), 12=-328(LC 12)  
Max Grav 10=40(LC 22), 2=1424(LC 17), 12=2680(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1948/239, 3-4=-1274/258, 4-5=-794/242, 5-6=-793/241, 6-7=-103/520,  
7-8=-103/520  
BOT CHORD 2-16=-300/1714, 15-16=-301/1710, 14-15=-215/1066, 13-14=-135/364, 12-13=-135/364  
WEBS 3-16=0/351, 3-15=-791/202, 4-15=-36/692, 4-14=-458/94, 5-14=-351/114,  
6-14=-124/1030, 6-13=0/299, 6-12=-1627/203, 7-12=-312/128, 8-12=-822/105,  
8-11=-22/263, 8-10=-40/326

- 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=41ft; eave=5ft; 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
  - 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 100 lb uplift at joint(s) except (jt=lb) 10=107, 2=215, 12=328.
  - 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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MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

May 4, 2021

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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 33610



Job TAMELA_MUELLER	Truss B7	Truss Type Piggyback Base	Qty 1	Ply 1	Tamela Mueller Job Reference (optional)	T23813797
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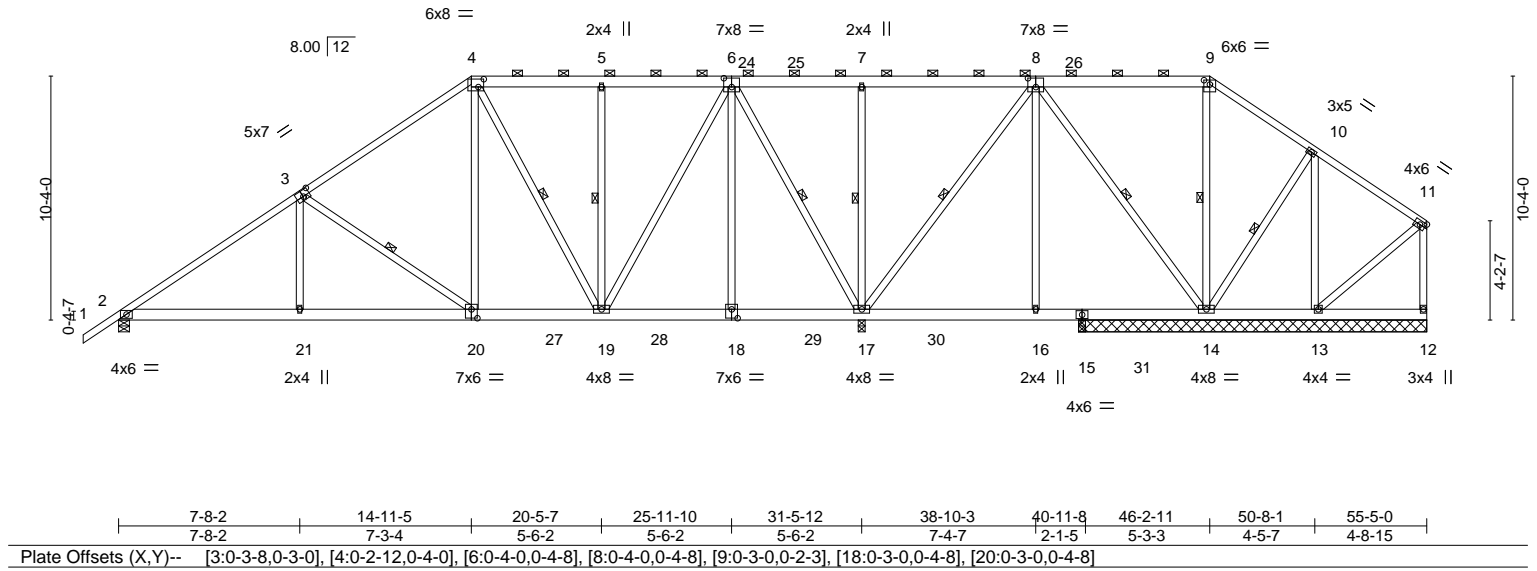
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.430 s Apr 20 2021 MiTek Industries, Inc. Mon May 3 14:42:36 2021 Page 1

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1-6-0	7-8-2	14-11-5	20-5-7	25-11-10	31-5-12	38-10-3	46-2-11	50-8-1	55-5-0
1-6-0	7-8-2	7-3-4	5-6-2	5-6-2	5-6-2	7-4-7	7-4-7	4-5-7	4-8-15

Scale = 1:97.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.48	Vert(LL)	-0.07 21-23	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.48	Vert(CT)	-0.14 21-23	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT)	0.03 17	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS					Weight: 471 lb	FT = 20%

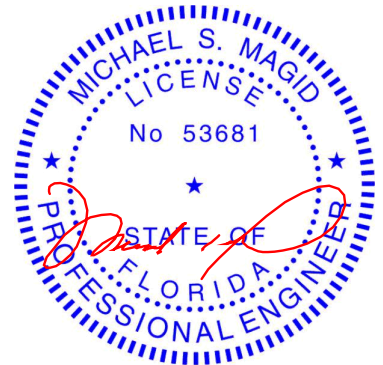
<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2 *Except* 4-6,8-9,6-8: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins: 4-9.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 3-20, 4-19, 5-19, 6-17, 7-17, 8-17, 8-14, 9-14, 10-14

**REACTIONS.** All bearings 14-9-0 except (jt=length) 2=0-5-8, 17=0-3-8.  
 (lb) - Max Horz 2=379(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 13, 12 except 2=213(LC 12), 17=333(LC 12), 14=101(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 12 except 2=1372(LC 17), 17=2783(LC 17), 14=916(LC 18), 13=335(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-1847/235, 3-4=-1169/254, 4-5=-660/237, 5-6=-659/236, 6-7=0/707, 7-8=0/707, 9-10=-30/321  
 BOT CHORD 2-21=-144/1647, 20-21=-145/1643, 19-20=-59/990  
 WEBS 3-21=0/351, 3-20=-801/201, 4-20=-36/696, 4-19=-535/72, 5-19=-355/115, 6-19=-127/1114, 6-18=0/280, 6-17=-1675/203, 7-17=-392/148, 8-17=-866/107, 8-16=0/427, 9-14=-426/69

#### 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=55ft; eave=7ft; 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
- 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 100 lb uplift at joint(s) 13, 12 except (jt=lb) 2=213, 17=333, 14=101.
- 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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 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

May 4, 2021

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

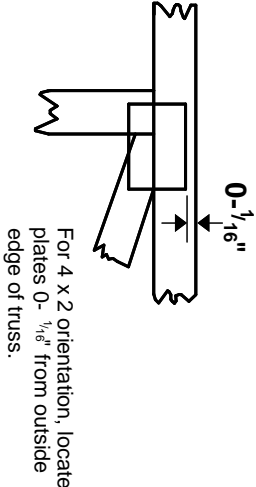
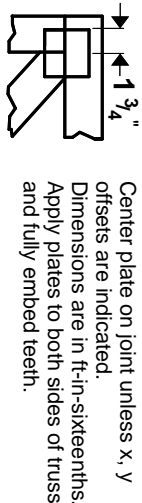
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
 Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION



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

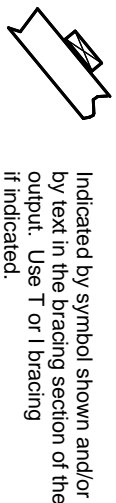
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

## PLATE SIZE

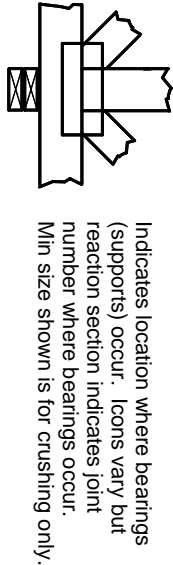
4 X 4

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

## LATERAL BRACING LOCATION



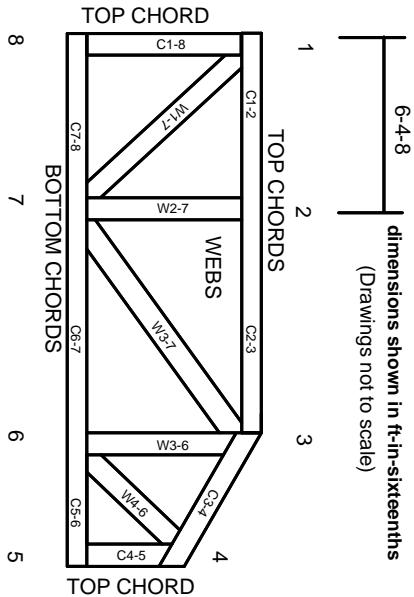
## BEARING



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/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:  
ESR-1311, ESR-1352, ESR1988  
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.