



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

RE: 2911950 - IC CONST. - SHAHEEN RES.

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

**Site Information:**

Customer Info: IC Construction Project Name: Shaheen Res. Model: Custom  
 Lot/Block: N/A Subdivision: N/A  
 Address: TBD, TBD  
 City: Columbia Cty State: FL

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

Name: License #:  
 Address: State:  
 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: 37.0 psf Floor Load: N/A psf

This package includes 31 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.

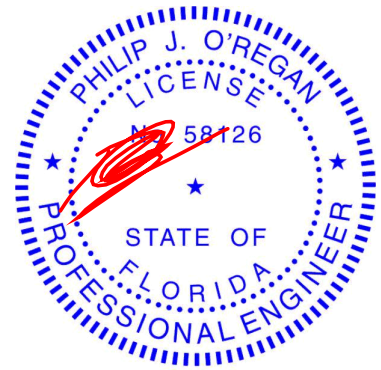
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T25257027	CJ02	9/7/21	23	T25257049	T11	9/7/21
2	T25257028	CJ04	9/7/21	24	T25257050	T12G	9/7/21
3	T25257029	CJ06	9/7/21	25	T25257051	T13	9/7/21
4	T25257030	EJ01	9/7/21	26	T25257052	T14G	9/7/21
5	T25257031	EJ02	9/7/21	27	T25257053	T15	9/7/21
6	T25257032	EJ03G	9/7/21	28	T25257054	T15G	9/7/21
7	T25257033	HJ11	9/7/21	29	T25257055	T16	9/7/21
8	T25257034	PB01	9/7/21	30	T25257056	T17	9/7/21
9	T25257035	PB01G	9/7/21	31	T25257057	T18	9/7/21
10	T25257036	T01	9/7/21				
11	T25257037	T01G	9/7/21				
12	T25257038	T02G	9/7/21				
13	T25257039	T03	9/7/21				
14	T25257040	T03G	9/7/21				
15	T25257041	T04	9/7/21				
16	T25257042	T05	9/7/21				
17	T25257043	T06	9/7/21				
18	T25257044	T07	9/7/21				
19	T25257045	T08	9/7/21				
20	T25257046	T08G	9/7/21				
21	T25257047	T09	9/7/21				
22	T25257048	T10	9/7/21				



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip  
 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.



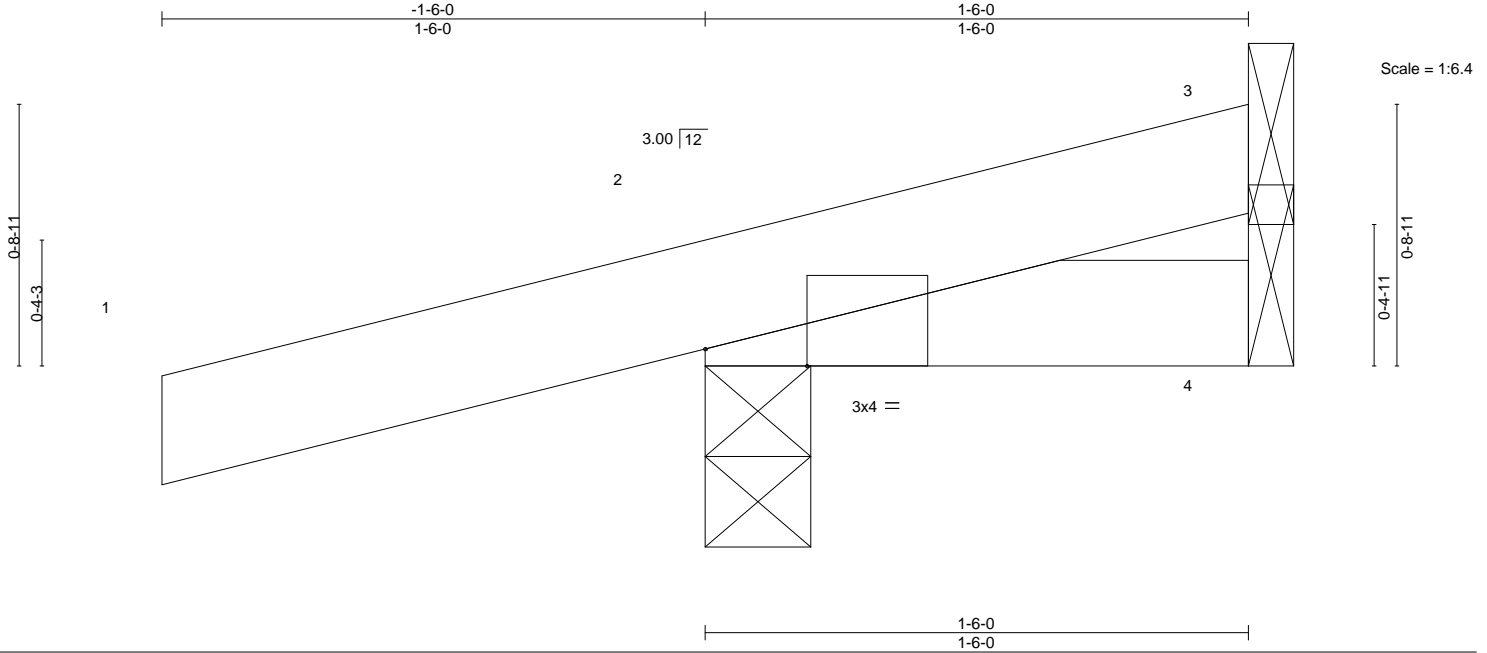
Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257027
2911950	CJ02	Jack-Open	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:38 2021 Page 1  
ID:b2ldskJGjOxOjHDJPP?LTyh2aU-oqS4Sd4mlw3BtaG1AzDC8Zr9r4BnwuFr\_5aljrjg7l



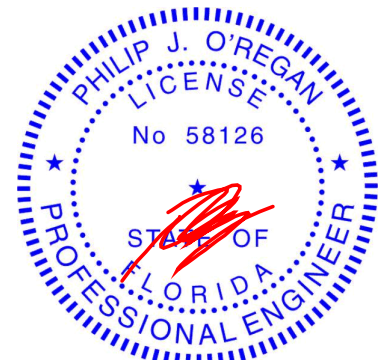
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.00 5 >999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	-0.00 5 >999	180	Weight: 7 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 2 n/a	n/a			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 1-6-0 oc purlins.
BOT CHORD	2x4 SP No.2	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=30(LC 8)  
 Max Uplift 3=4(LC 12), 2=99(LC 8)  
 Max Grav 3=13(LC 3), 2=177(LC 1), 4=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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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 4 lb uplift at joint 3 and 99 lb uplift at joint 2.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7,2021

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

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



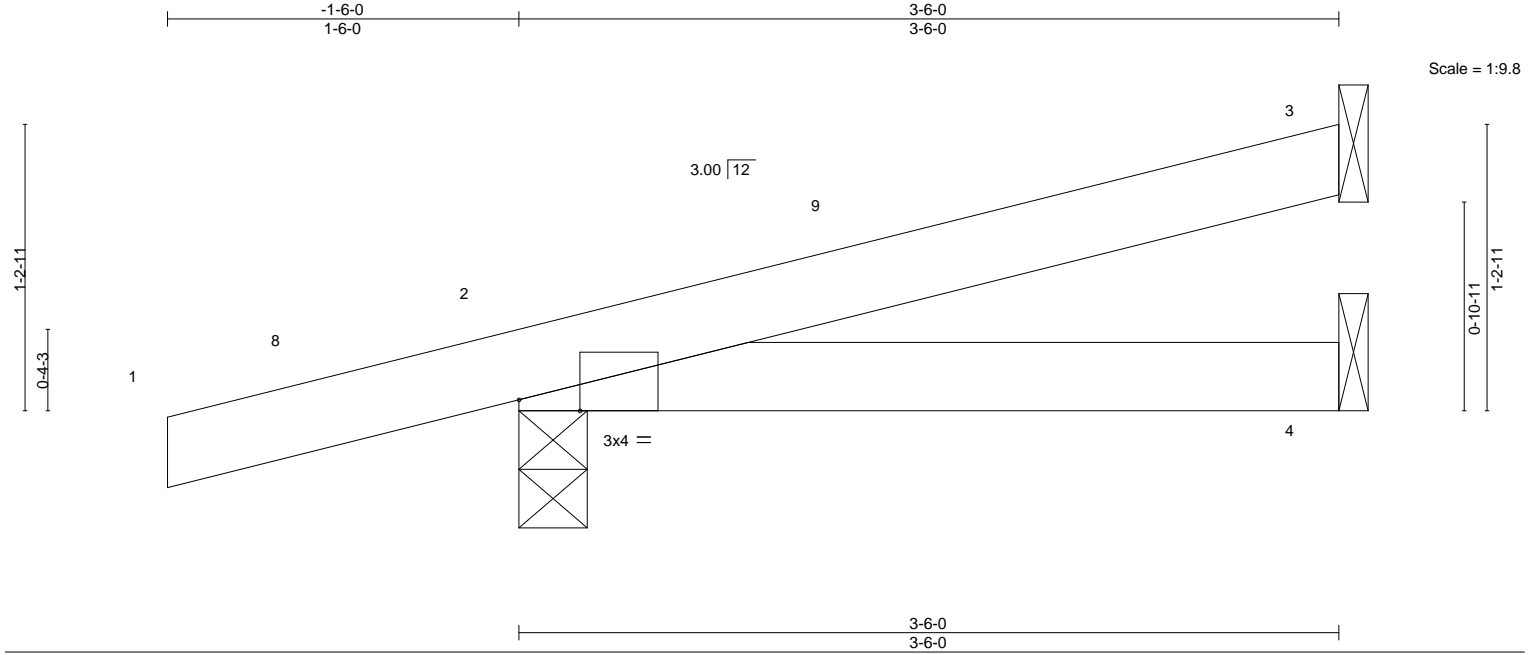
6904 Parke East Blvd.  
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257028
2911950	CJ04	Jack-Open	2	1		

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:39 2021 Page 1  
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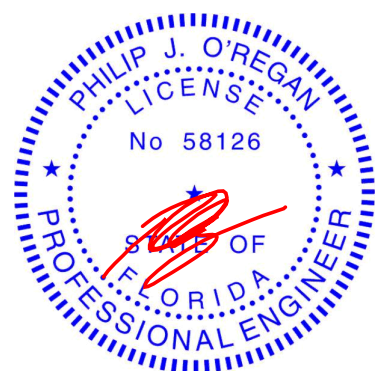
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	in	(loc)	l/defl	L/d	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(LL)	0.01	4-7	>999	Weight: 13 lb FT = 20%			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Vert(CT)	-0.01	4-7	>999				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MP		Horz(CT)	0.00	2	n/a				

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-6-0 oc purlins.
BOT CHORD	2x4 SP No.2	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=47(LC 8)  
 Max Uplift 3=-32(LC 12), 2=-99(LC 8)  
 Max Grav 3=71(LC 1), 2=226(LC 1), 4=57(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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-5-4 zone;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 32 lb uplift at joint 3 and 99 lb uplift at joint 2.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: September 7,2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257029
2911950	CJ06	Jack-Open	2	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:39 2021 Page 1  
ID:b2ldskJGjOxOjHDJPP?LTyh2aU-G10Tfz4O3DC1VkrDkgkRgmOGLUT\_fLV?DIKrFHyg7k



Scale = 1:13.6

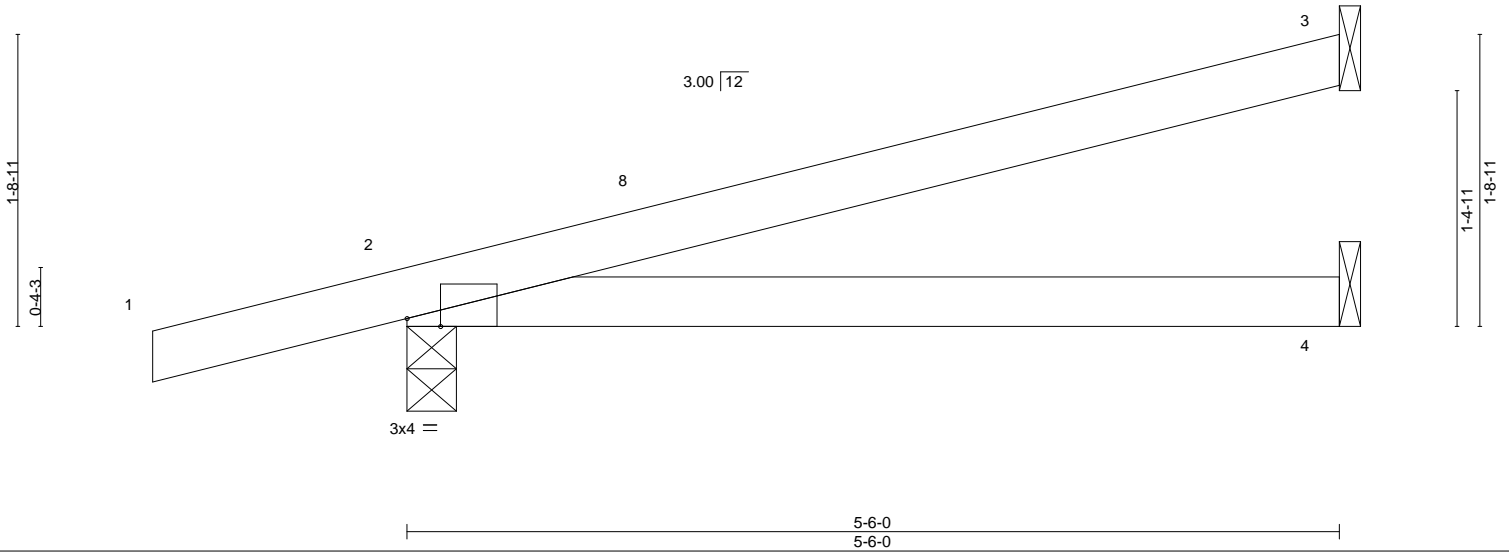


Plate Offsets (X,Y)-- [2:0-2-6,Edge] 5-6-0 5-6-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	0.05	4-7	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.08	4-7	>850		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MP					Weight: 19 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

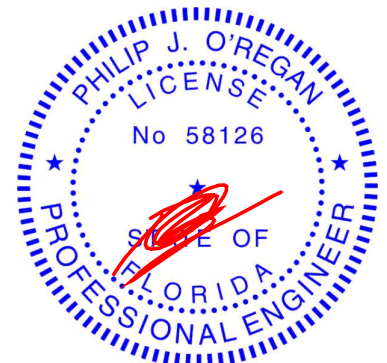
**REACTIONS.**

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=64(LC 8)  
Max Uplift 3=57(LC 12), 2=-112(LC 8)  
Max Grav 3=123(LC 1), 2=293(LC 1), 4=94(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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 5-5-4 zone;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 57 lb uplift at joint 3 and 112 lb uplift at joint 2.



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MiTek USA, Inc. FL Cert 6634  
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Date:

September 7,2021

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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

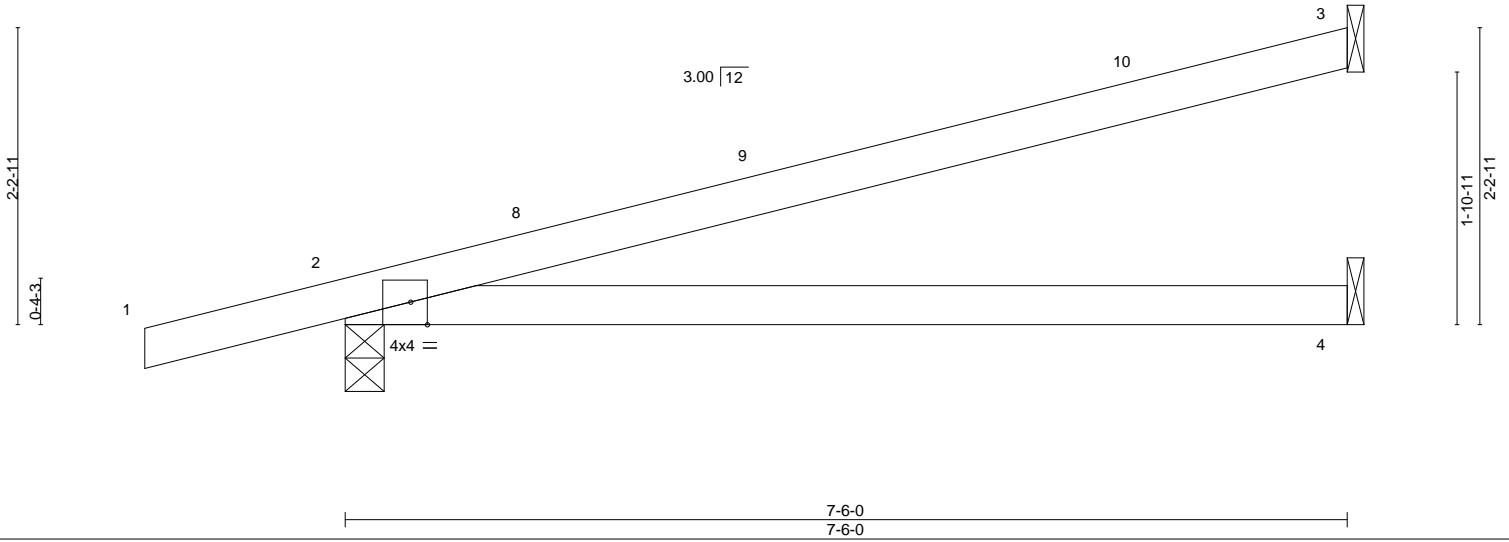


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257030
2911950	EJ01	Jack-Partial	8	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:40 2021 Page 1  
ID:b2ldsklJGjOxOjHDJPP?LTyh2aU-kDarsJ50qXKu6uQQIOGgD\_xL.GttgOol8RP3PojyGj7J



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	in	(loc)	l/defl	L/d	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(LL)	0.14	4-7	>645	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Vert(CT)	-0.28	4-7	>314	180			
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Horz(CT)	0.01	2	n/a	n/a	Weight: 25 lb	FT = 20%	

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

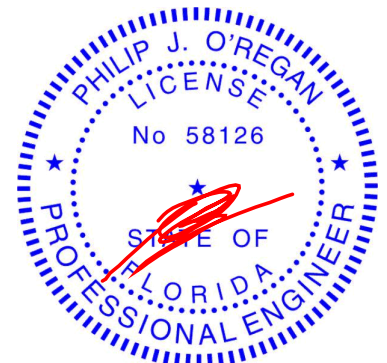
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-3-8, 4=Mechanical  
Max Horz 2=81(LC 8)  
Max Uplift 3=80(LC 8), 2=128(LC 8)  
Max Grav 3=174(LC 1), 2=364(LC 1), 4=132(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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 7-5-4 zone;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 80 lb uplift at joint 3 and 128 lb uplift at joint 2.



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

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

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257031
2911950	EJ02	Jack-Partial	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:41 2021 Page 1  
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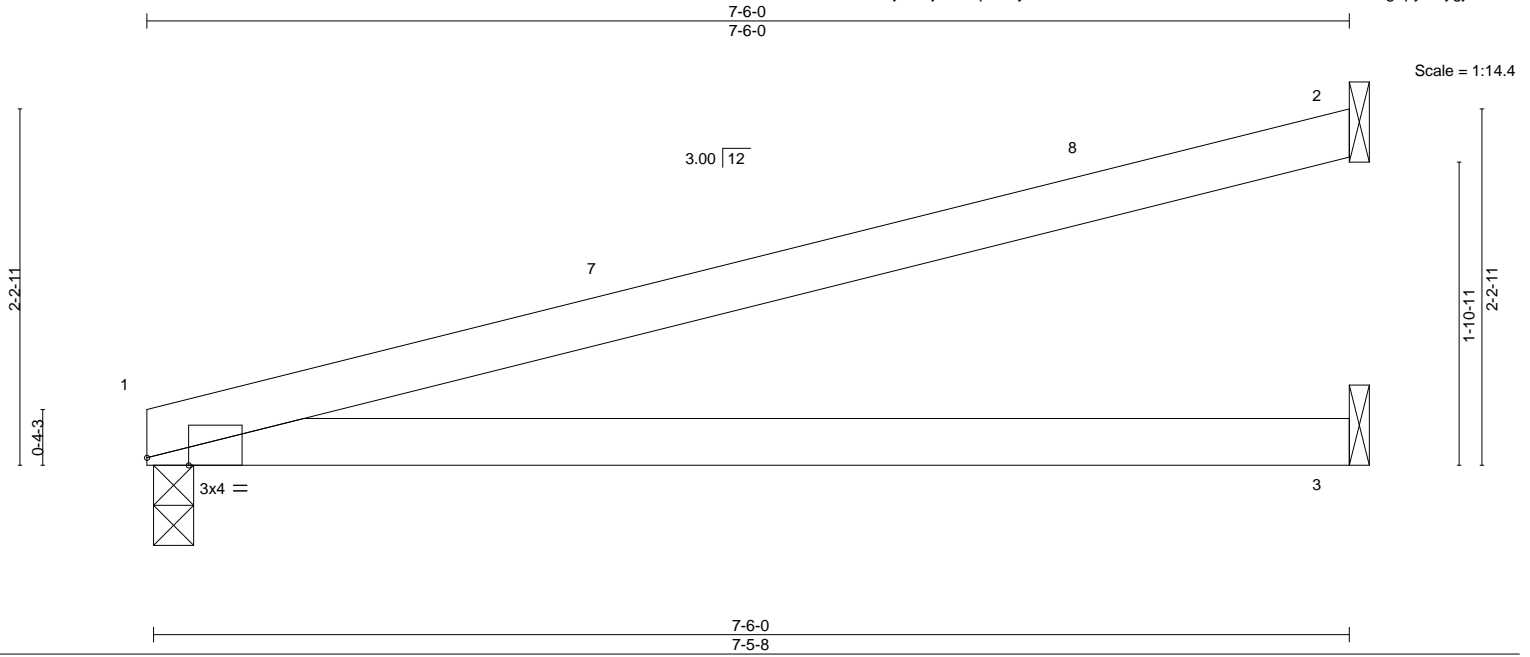


Plate Offsets (X,Y)-- [1:0-3-2,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	0.15 3-6	>585	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.31 3-6	>290	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 1	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS					Weight: 23 lb	FT = 20%

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

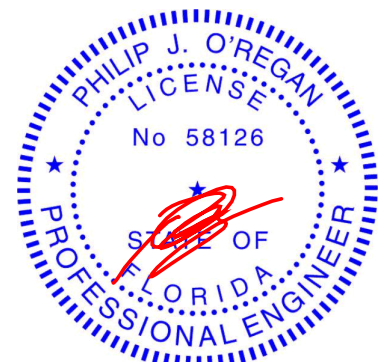
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=0-3-0, 2=Mechanical, 3=Mechanical  
Max Horz 1=64(LC 8)  
Max Uplift 1=66(LC 8), 2=83(LC 8)  
Max Grav 1=275(LC 1), 2=178(LC 1), 3=133(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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-5-4 zone;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 66 lb uplift at joint 1 and 83 lb uplift at joint 2.



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Date:

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

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257032
2911950	EJ03G	Monopitch Supported Gable	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:42 2021 Page 1  
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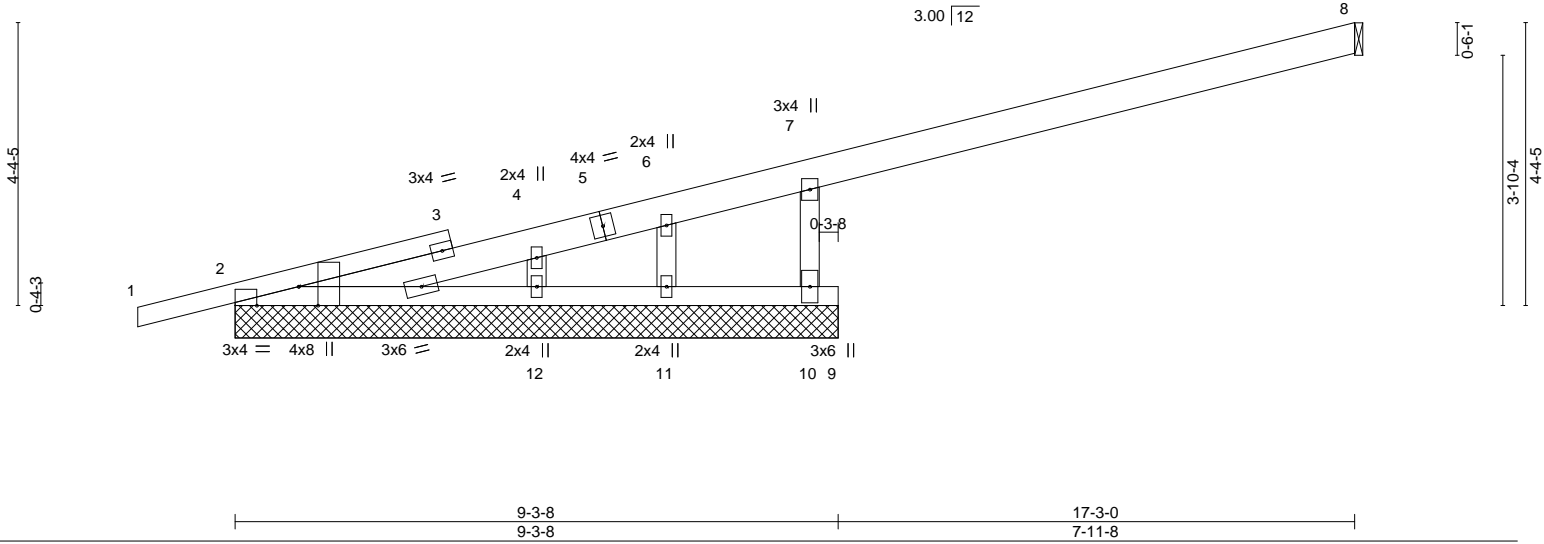


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-7-12,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.14	Vert(LL) -0.01 2-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Vert(CT) -0.02 2-12 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 8 n/a n/a		
	Code FBC2020/TPI2014			Weight: 65 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3: 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 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 9-10.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 9-3-8 except (jt=length) 8=Mechanical.  
(lb) - Max Horz 2=151(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 12 except 10=-260(LC 12), 11=-108(LC 1)  
Max Grav All reactions 250 lb or less at joint(s) 8, 2, 11 except 10=549(LC 1), 12=339(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-294/100, 6-7=-260/95, 7-10=-520/630  
WEBS 4-12=-253/268

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 17-2-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 3) 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 studs spaced at 2-0-0 oc.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 7) Refer to girder(s) for truss to truss connections.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 12 except (jt=length) 10=260, 11=108.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 7, 2021

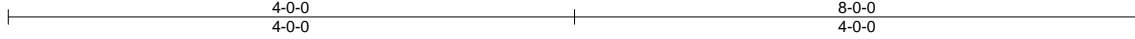


Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257034
2911950	PB01	Piggyback	23	1	Job Reference (optional)	

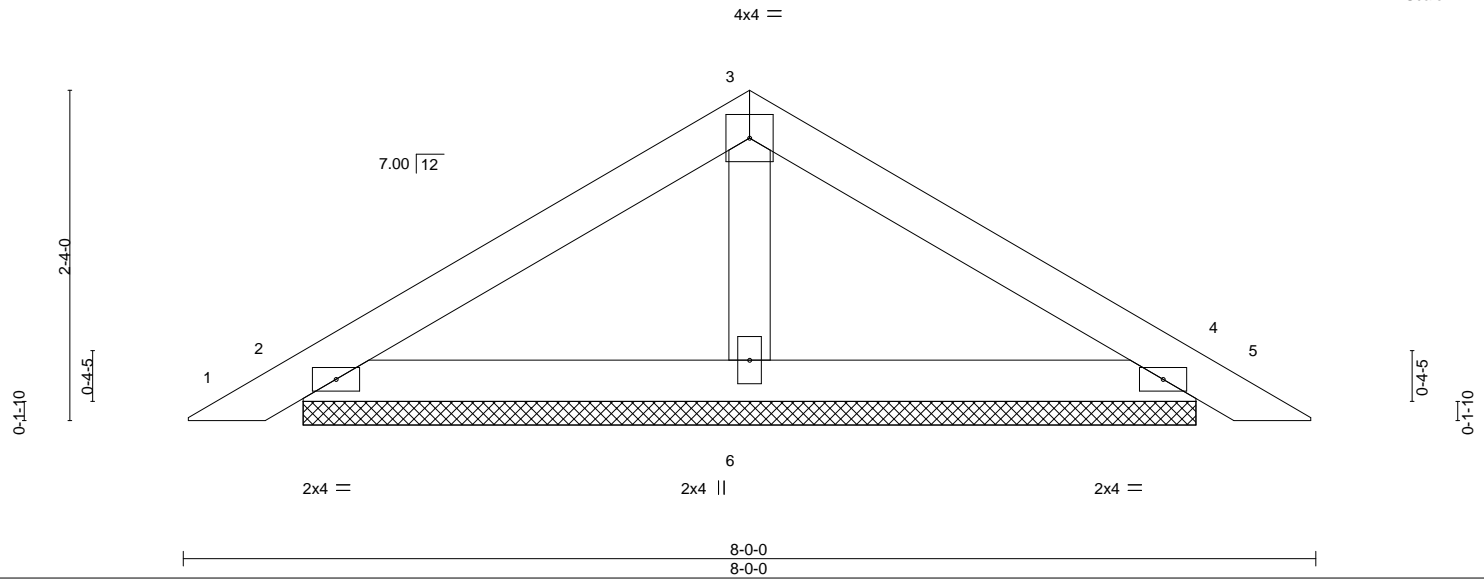
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:44 2021 Page 1  
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Scale = 1:16.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.10	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 25 lb	FT = 20%
	Code FBC2020/TPI2014							

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**

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

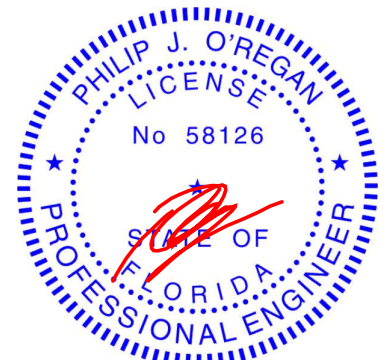
**REACTIONS.**

(size) 2=6-3-11, 4=6-3-11, 6=6-3-11  
Max Horz 2=47(LC 11)  
Max Uplift 2=50(LC 12), 4=56(LC 13), 6=19(LC 12)  
Max Grav 2=153(LC 1), 4=153(LC 1), 6=220(LC 1)

**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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 4-0-0, Exterior(2R) 4-0-0 to 7-1-13, Interior(1) 7-1-13 to 7-8-5 zone;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.
- 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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 7, 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



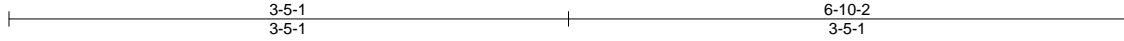
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257035
2911950	PB01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

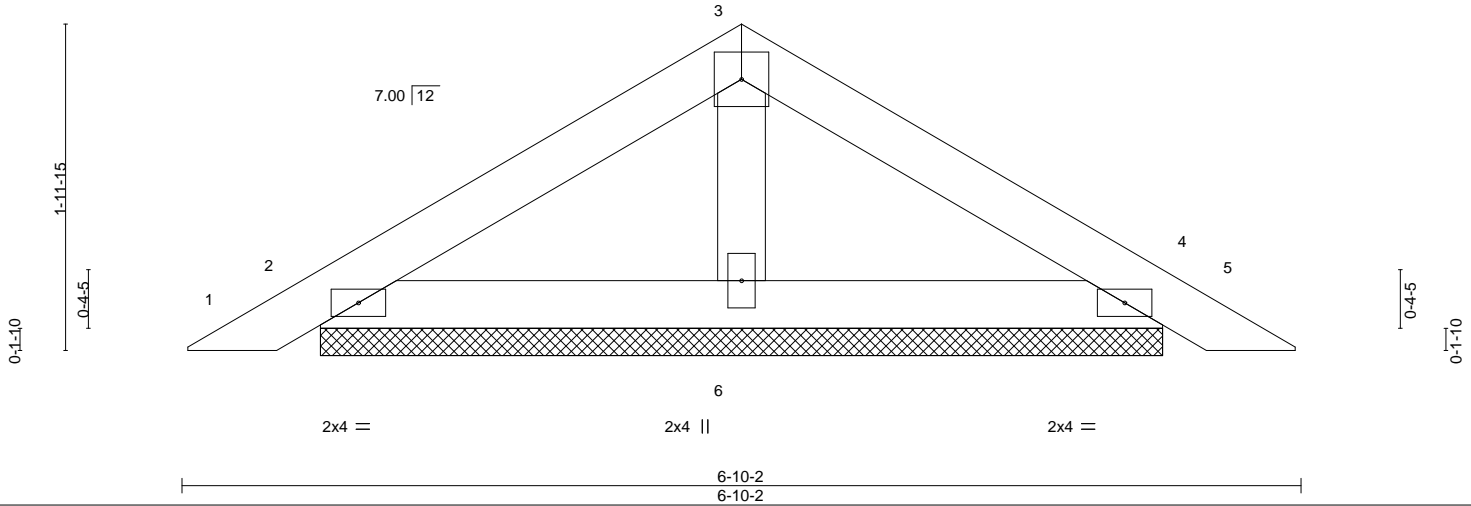
Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:44 2021 Page 1  
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Scale = 1:14.1

4x4 =



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 0.09	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						Weight: 21 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
OTHERS 2x4 SP No.3

**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.

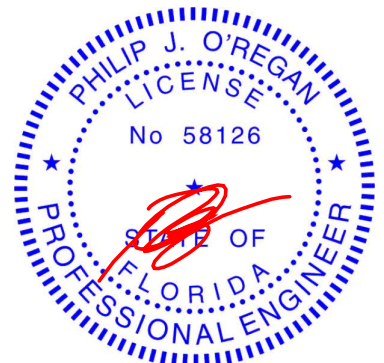
**REACTIONS.**

(size) 2=5-1-13, 4=5-1-13, 6=5-1-13  
Max Horz 2=-40(LC 10)  
Max Uplift 2=-43(LC 12), 4=-48(LC 13), 6=-14(LC 12)  
Max Grav 2=131(LC 1), 4=131(LC 1), 6=178(LC 1)

**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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;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.
- 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, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 7, 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

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257036
2911950	T01	Common	10	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:45 2021 Page 1  
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4x6 ||

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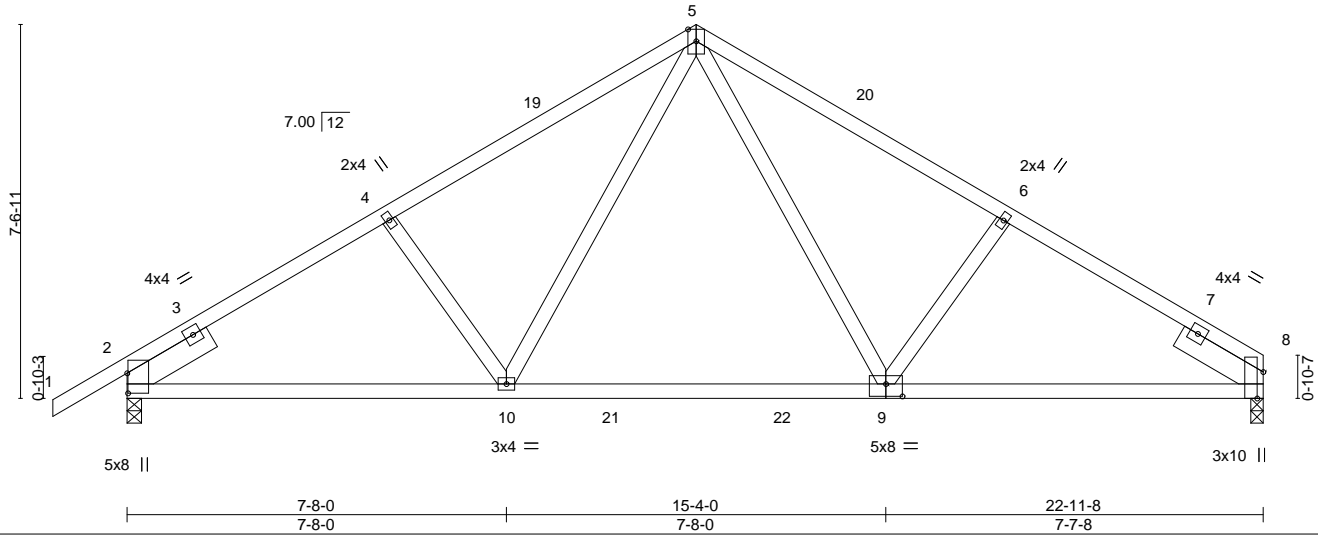


Plate Offsets (X,Y)-- [2:0-4-14,0-0-3], [8:0-6-7,Edge], [9:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.89	Vert(LL) -0.27 9-10 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.50 9-10 >550 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.06 8 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 122 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
2-9: 2x4 SP M 31  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

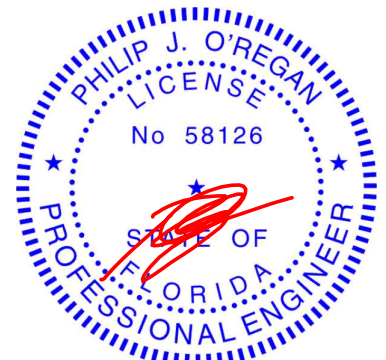
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 8=0-3-0, 2=0-3-8  
Max Horz 2=160(LC 9)  
Max Uplift 8=-232(LC 13), 2=-265(LC 12)  
Max Grav 8=1200(LC 20), 2=1278(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-1755/373, 4-5=-1656/386, 5-6=-1649/386, 6-8=-1747/373  
BOT CHORD 2-10=-354/1550, 9-10=-161/1071, 8-9=-255/1431  
WEBS 5-10=-193/788, 5-9=-192/772

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-6-0, Exterior(2R) 11-6-0 to 14-6-0, Interior(1) 14-6-0 to 22-11-8 zone; 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, 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) 8=232, 2=265.
  - 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: 1-5=-54, 5-8=-54, 10-15=-20, 9-10=-80(F=-60), 9-11=-20



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: September 7, 2021

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257037
2911950	T01G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:47 2021 Page 1  
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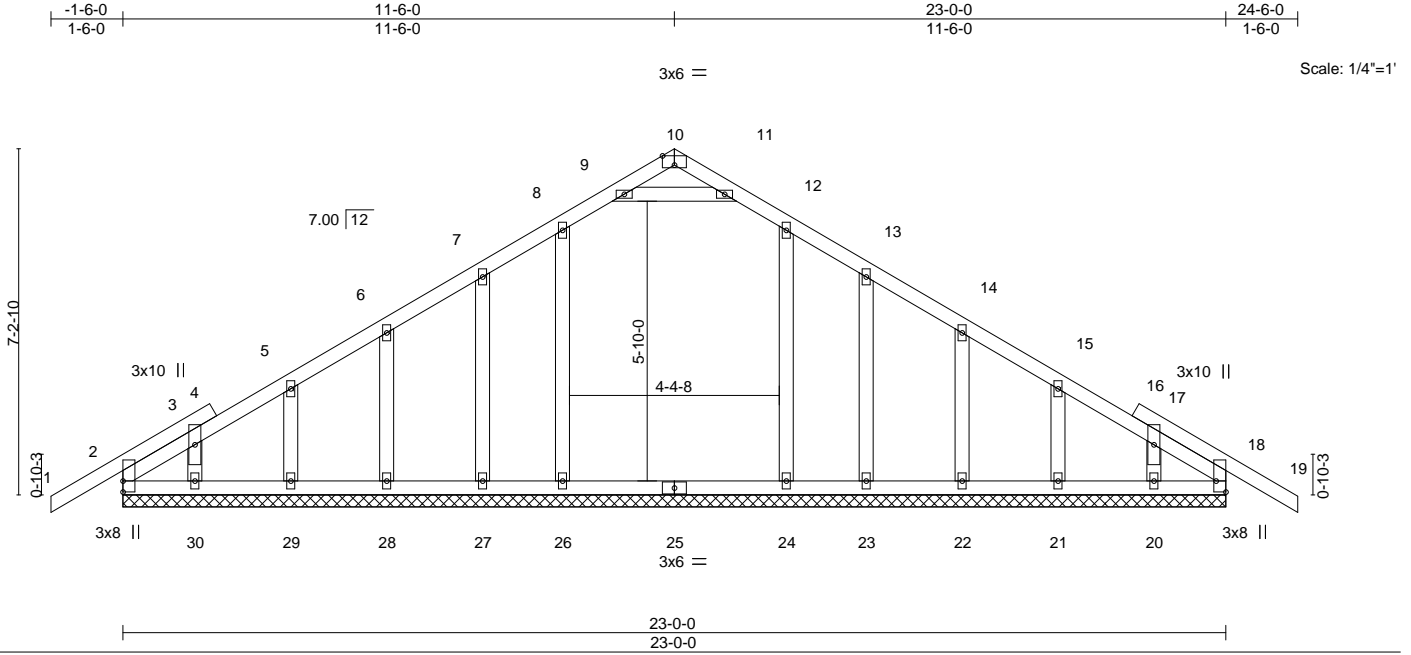


Plate Offsets (X,Y)-- [10:0-3-0,Edge], [18:Edge,0-2-7]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.01	19	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT) -0.01	19	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00	18	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 136 lb	FT = 20%

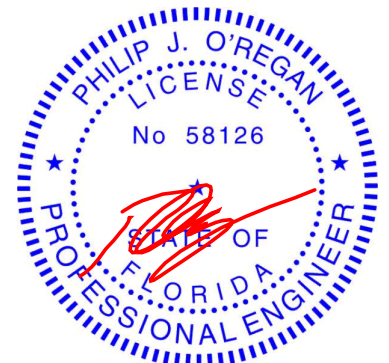
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

**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 23-0-0.  
(lb) - Max Horz 2=-160(LC 20)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 26, 27, 28, 29, 30, 24, 23, 22, 21, 20  
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 27, 28, 29, 30, 23, 22, 21, 20 except 26=345(LC 19), 24=324(LC 20)

**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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 11-6-0, Corner(3R) 11-6-0 to 14-6-0, Exterior(2N) 14-6-0 to 24-6-0 zone;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 2x4 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 26, 27, 28, 29, 30, 24, 23, 22, 21, 20.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: September 7, 2021

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257038
2911950	T02G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:48 2021 Page 1  
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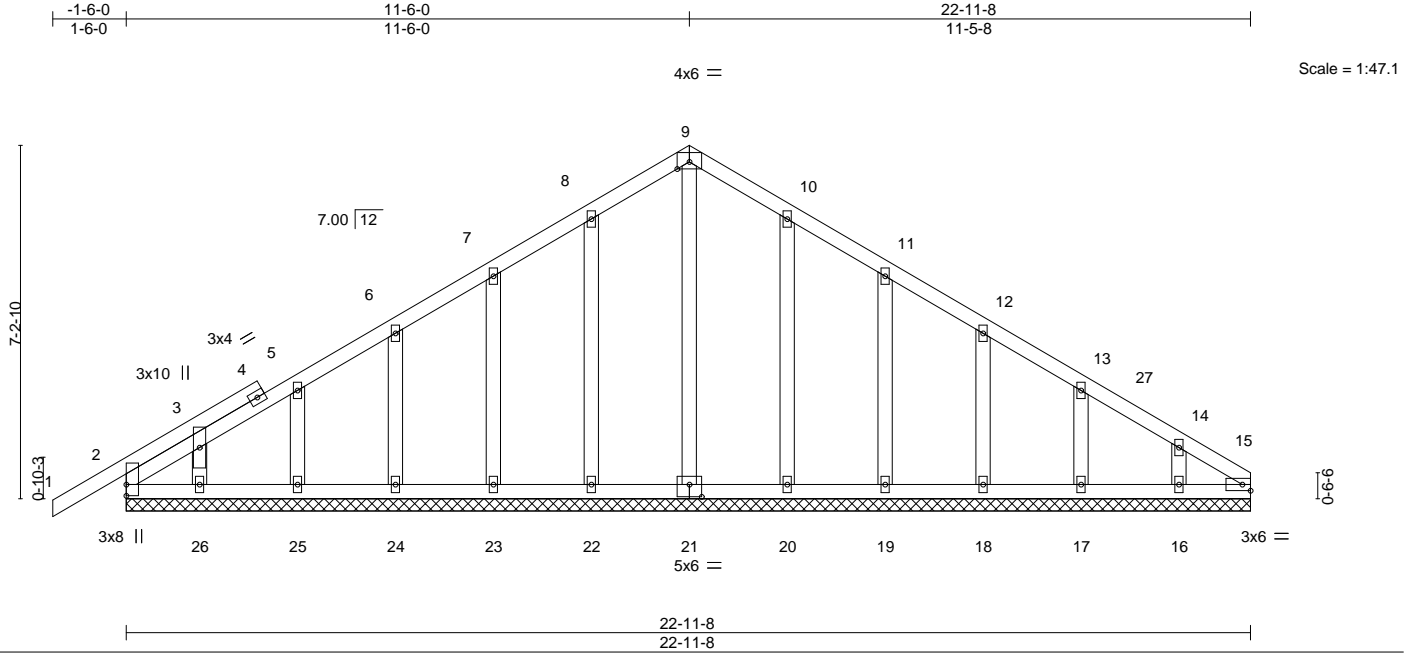


Plate Offsets (X,Y)-- [21:0-3-0,0-3-0]

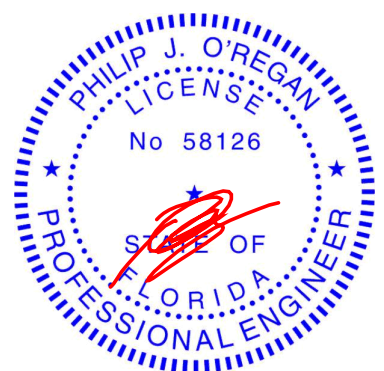
LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	15	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 138 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 22-11-8.  
(lb) - Max Horz 2=157(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16  
Max Grav All reactions 250 lb or less at joint(s) 2, 15, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16

**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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-5-15, Exterior(2N) 1-5-15 to 11-6-0, Corner(3R) 11-6-0 to 14-6-0, Exterior(2N) 14-6-0 to 22-9-12 zone;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 2x4 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, 15, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16.



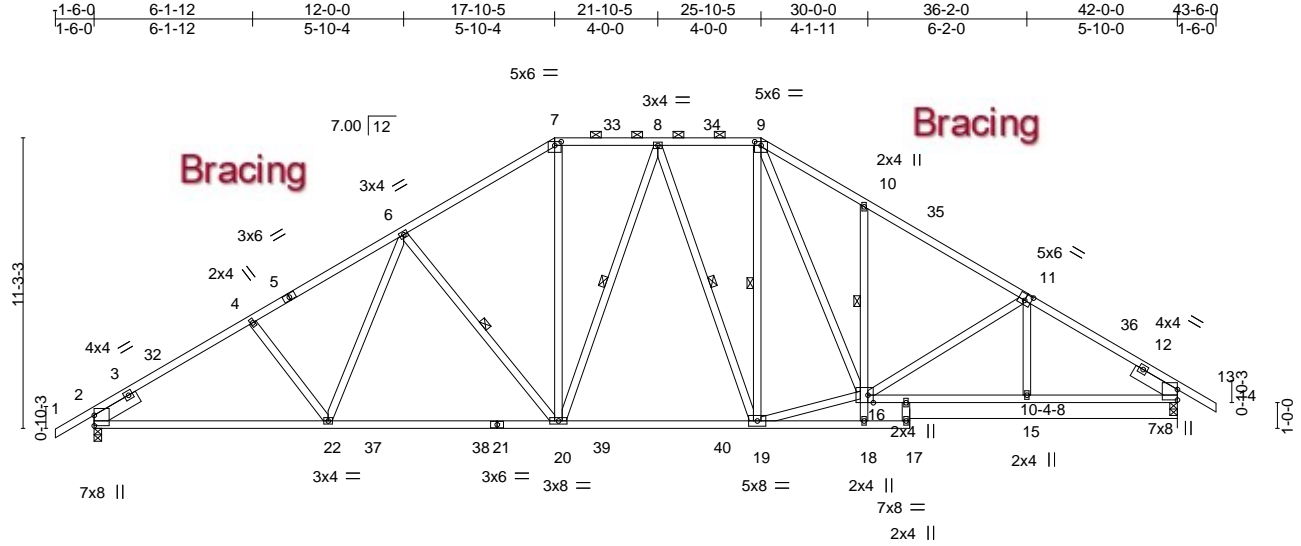
Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257039
2911950	T03	Piggyback Base	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:49 2021 Page 1

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Scale = 1:89.3

Plate Offsets (X,Y)--	[7:0-3-0,0-1-12], [9:0-3-0,0-1-12], [11:0-3-0,0-3-0], [16:0-2-8,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.53	Vert(LL) -0.30 20-22 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Vert(CT) -0.50 20-22 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.13 13 n/a n/a		
				Weight: 299 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5,11-14: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-1-4 oc purlins, except 2-0-0 oc purlins (4-5-9 max.): 7-9.
BOT CHORD 2x4 SP M 31 *Except* 10-18: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 18-19. 1 Row at midpt 10-16
WEBS 2x4 SP No.3	WEBS 10-0-0 oc bracing: 16-18 1 Row at midpt 6-20, 8-20, 8-19, 9-19
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

REACTIONS.
(size) 2=0-3-8, 13=0-3-8 Max Horz 2=-240(LC 10) Max Uplift 2=-356(LC 12), 13=-339(LC 13) Max Grav 2=1842(LC 19), 13=1828(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2676/511, 4-6=-2550/518, 6-7=-2043/441, 7-8=-1707/423, 8-9=-1640/404, 9-10=-2434/565, 10-11=-2433/446, 11-13=-2698/470
BOT CHORD 17-10-5 to 23-9-9, Interior(1) 23-9-9 to 25-10-5, Exterior(2R) 25-10-5 to 31-9-9, Interior(1) 31-9-9 to 43-6-0 zone; 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
WEBS 6-22=-81/462, 6-20=-643/267, 7-20=-141/802, 8-19=-327/178, 16-19=-134/1688, 9-16=-291/1183, 11-16=-304/162

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-6, Interior(1) 2-8-6 to 17-10-5, Exterior(2R) 17-10-5 to 23-9-9, Interior(1) 23-9-9 to 25-10-5, Exterior(2R) 25-10-5 to 31-9-9, Interior(1) 31-9-9 to 43-6-0 zone; 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) 2=356, 13=339.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 7, 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

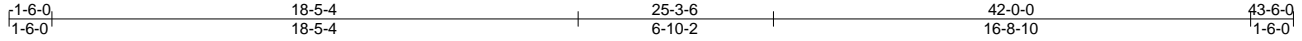
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257040
2911950	T03G	GABLE   Gable   Gable COMMON     Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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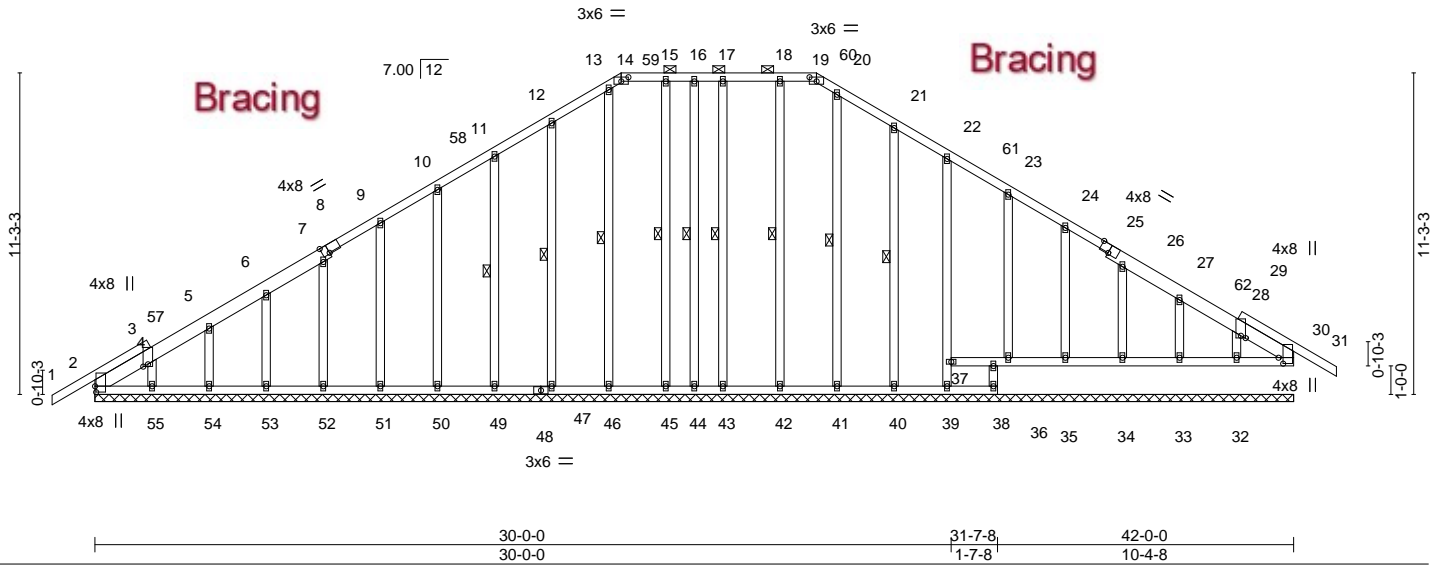


Plate Offsets (X,Y)-- [2:0-2-8,0-0-7], [3:0-1-0,0-2-0], [8:0-2-13,Edge], [14:0-3-0,0-1-12], [19:0-3-0,0-1-12], [25:0-4-0,Edge], [29:0-1-0,0-2-0], [30:0-2-8,0-1-15]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.15	Vert(LL) -0.01 31 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Vert(CT) -0.01 31 n/r 120		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	Horz(CT) 0.02 30 n/a n/a		
				Weight: 369 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
2-8,25-30: 2x6 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
22-39: 2x4 SP No.3  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-19.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 37-39  
WEBS 1 Row at midpt 16-44, 21-40, 20-41, 18-42, 17-43, 11-49, 12-47, 13-46, 15-45

**REACTIONS.**

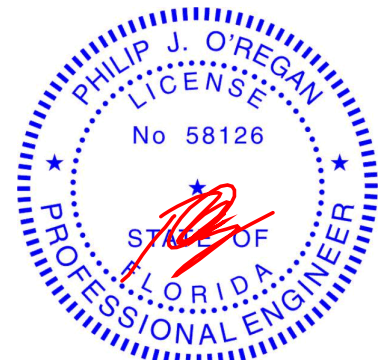
All bearings 42-0-0.  
(lb) - Max Horz 2=241(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 30, 44, 32, 33, 34, 35, 36, 42, 43, 55, 54, 53, 52, 51, 50, 49, 47, 46, 45 except 40=103(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 39, 37, 30, 44, 32, 33, 34, 35, 36, 40, 41, 42, 43, 55, 54, 53, 52, 51, 50, 49, 47, 46, 45, 38

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

TOP CHORD 12-13=113/276, 20-21=111/256

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-6, Interior(1) 2-8-6 to 18-5-4, Exterior(2R) 18-5-4 to 24-4-8, Interior(1) 24-4-8 to 25-3-6, Exterior(2R) 25-3-6 to 31-2-10, Interior(1) 31-2-10 to 43-6-0 zone; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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.
- Bearing at joint(s) 37 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 30, 44, 32, 33, 34, 35, 36, 42, 43, 55, 54, 53, 52, 51, 50, 49, 47, 46, 45 except (jt=lb) 40=103.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 30, 32, 33, 34, 35, 36.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: September 7, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



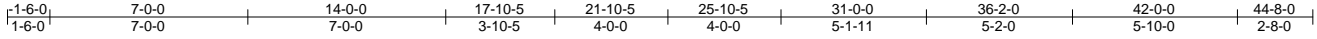
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2911950	Truss T04	Truss Type Piggyback Base	Qty 4	Ply 1	IC CONST. - SHAHEEN RES. Job Reference (optional)	T25257041
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:53 2021 Page 1

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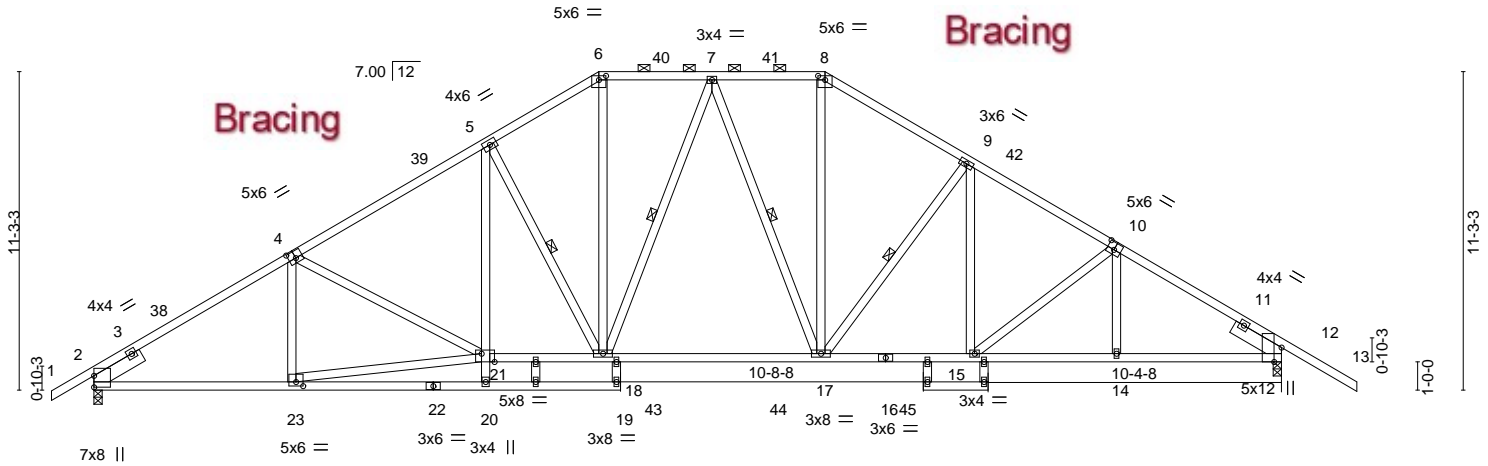


Plate Offsets (X,Y)--	[4:0-3-0,0-3-0], [6:0-3-0,0-1-12], [8:0-3-0,0-1-12], [10:0-3-0,0-3-0], [12:0-6-2,Edge], [21:0-5-8,Edge], [23:0-3-0,0-1-12]
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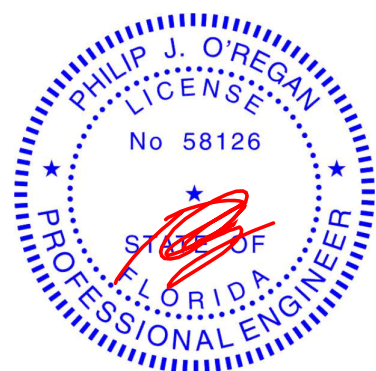
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.65	Vert(LL) -0.49 19 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Vert(CT) -0.99 19 >508 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.16 12 n/a n/a		
				Weight: 313 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4,10-13: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except 2-0-0 oc purlins (4-1-3 max.): 6-8.
BOT CHORD 2x4 SP M 31 *Except* 5-20,27-28: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-23. 10-0-0 oc bracing: 20-21
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-18, 7-18, 7-17, 9-17
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=-250(LC 10)  
 Max Uplift 2=-341(LC 12), 12=-361(LC 13)  
 Max Grav 2=1890(LC 19), 12=1912(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2755/473, 4-5=-2774/474, 5-6=-2311/460, 6-7=-1955/422, 7-8=-1857/395,  
 8-9=-2205/413, 9-10=-2514/443, 10-12=-2686/443  
 BOT CHORD 2-23=-472/2451, 20-21=0/377, 5-21=-74/725, 18-21=-336/2419, 17-18=-197/1941,  
 15-17=-198/2150, 14-15=-255/2229, 12-14=-255/2229  
 WEBS 4-23=-270/102, 21-23=-416/2430, 5-18=-945/257, 6-18=-149/1001, 7-17=-373/171,  
 8-17=-149/902, 9-17=-602/229, 9-15=-48/330

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-6, Interior(1) 2-8-6 to 17-10-5, Exterior(2R) 17-10-5 to 23-9-9, Interior(1) 23-9-9 to 25-10-5, Exterior(2R) 25-10-5 to 31-9-9, Interior(1) 31-9-9 to 44-8-0 zone; 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 (it=lb) 2=341, 12=361.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



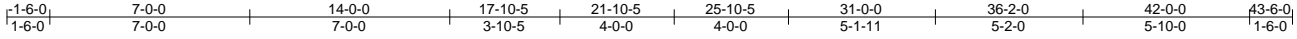
Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257042
2911950	T05	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:55 2021 Page 1

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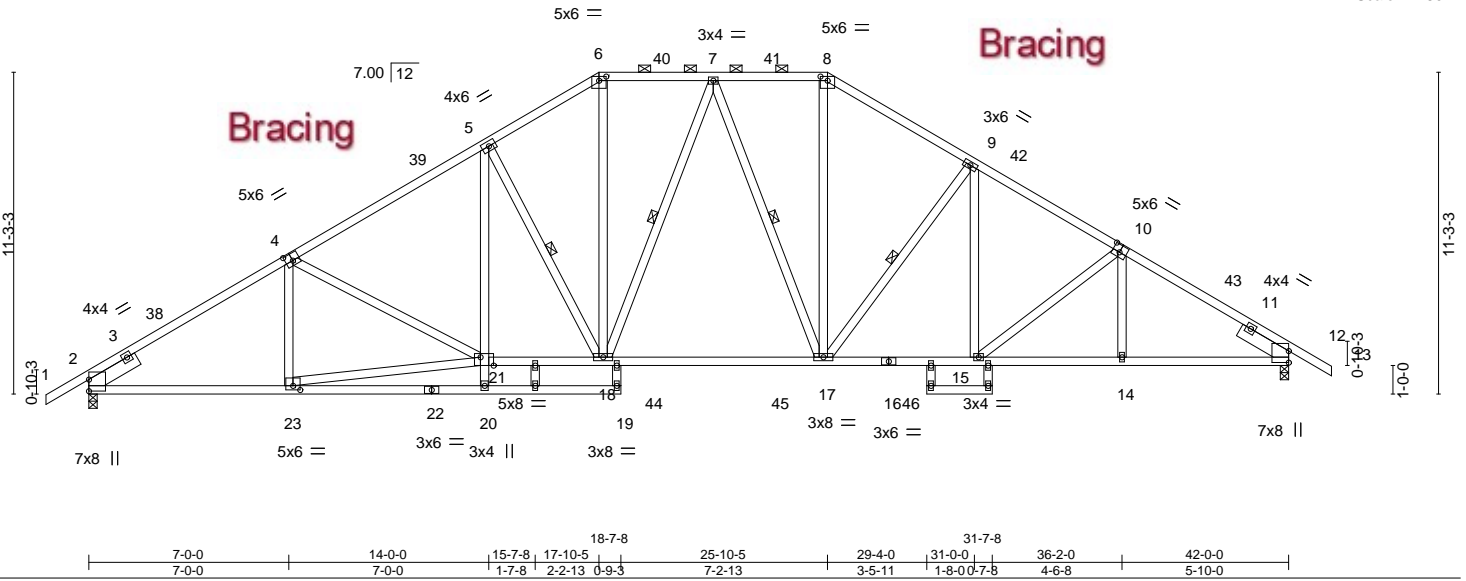


Plate Offsets (X,Y)-- [4:0-3-0,0-3-0], [6:0-3-0,0-1-12], [8:0-3-0,0-1-12], [10:0-3-0,0-3-0], [21:0-5-8,Edge], [23:0-3-0,0-1-12]

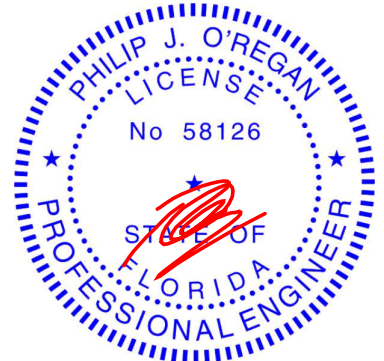
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.61	Vert(LL) -0.49 19 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.87	Vert(CT) -0.99 19 >509 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.15 12 n/a n/a		
				Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4,10-13: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 2-7-7 oc purlins, except 2-0-0 oc purlins (4-1-2 max.): 6-8.
BOT CHORD 2x4 SP M 31 *Except* 5-20,25-26: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 20-23.
WEBS 2x4 SP No.3	WEBS 10-0-0 oc bracing: 20-21
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	1 Row at midpt 5-18, 7-18, 7-17, 9-17

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=-240(LC 10)  
 Max Uplift 2=-342(LC 12), 12=-336(LC 13)  
 Max Grav 2=1892(LC 19), 12=1852(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-2760/474, 4-5=-2780/476, 5-6=-2317/462, 6-7=-1960/424, 7-8=-1864/400,  
 8-9=-2213/419, 9-10=-2528/452, 10-12=-2715/462  
 BOT CHORD 2-23=-482/2446, 20-21=0/377, 5-21=-75/725, 18-21=-348/2414, 17-18=-209/1947,  
 15-17=-210/2160, 14-15=-294/2259, 12-14=-294/2259  
 WEBS 4-23=-271/103, 21-23=-425/2425, 5-18=-944/258, 6-18=-151/1003, 7-17=-372/171,  
 8-17=-149/905, 9-17=-609/233, 9-15=-54/343

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-8-6, Interior(1) 2-8-6 to 17-10-5, Exterior(2R) 17-10-5 to 23-9-9, Interior(1) 23-9-9 to 25-10-5, Exterior(2R) 25-10-5 to 31-9-9, Interior(1) 31-9-9 to 43-6-0 zone; 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.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - 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 (it=lb) 2=342, 12=336.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



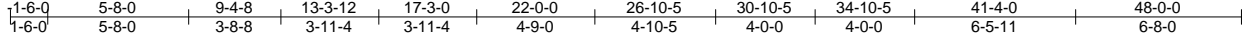
Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257043
2911950	T06	Piggyback Base	2	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:02:56 2021 Page 1

ID:b2ldskJGjOxOjHDJpp?LTyh2aU-GIYuDnl33SLd1LeUJEIYQtLb50KA08v3V7uxFMoygj7T



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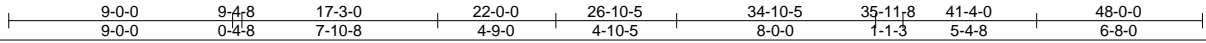
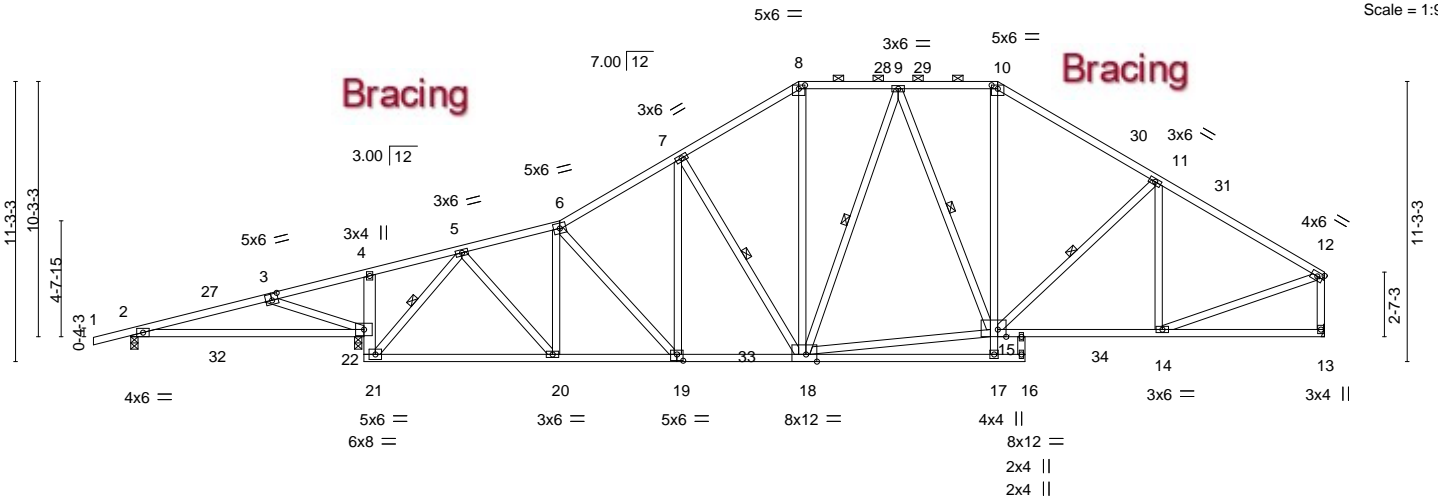


Plate Offsets (X, Y)-- [3:0-3-0,0-0-3-0], [8:0-3-0,0-1-12], [10:0-3-0,0-1-12], [15:0-4-1,0-3-7], [18:0-5-4,0-3-7], [19:0-3-0,0-0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.65	Vert(LL) 0.35 22-26 >328 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.55	Vert(CT) -0.35 22-26 >333 180		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.04 13 n/a n/a		
				Weight: 337 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 4-21: 2x6 SP No.2, 10-17: 2x4 SP No.3  
 WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-0-8 max.): 8-10.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-22.  
 WEBS 10-0-0 oc bracing: 15-17  
 1 Row at midpt 5-21, 7-18, 9-18, 9-15, 11-15

**REACTIONS.**

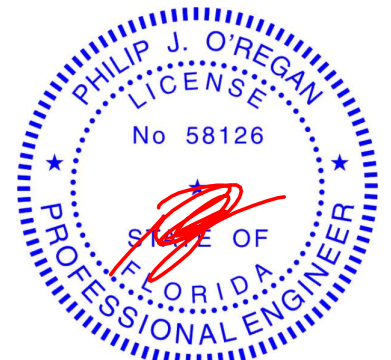
(size) 2=0-3-8, 13=Mechanical, 22=0-3-8  
 Max Horz 2=230(LC 9)  
 Max Uplift 2=209(LC 8), 13=236(LC 13), 22=452(LC 12)  
 Max Grav 2=304(LC 23), 13=1545(LC 2), 22=2131(LC 2)

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

TOP CHORD 3-4=-271/569, 4-5=-236/437, 5-6=-1648/379, 6-7=-1805/490, 7-8=-1566/512,  
 8-9=-1309/484, 9-10=-1338/490, 10-11=-1627/508, 11-12=-1705/437, 12-13=-1448/390  
 BOT CHORD 21-22=-416/1596, 20-21=-184/860, 19-20=-320/1594, 18-19=-321/1522, 10-15=-116/563,  
 14-15=-309/1418  
 WEBS 3-22=-575/475, 5-21=-1931/573, 5-20=-260/1097, 6-20=-584/240, 7-19=-16/254,  
 7-18=-464/197, 8-18=-139/581, 9-18=-284/134, 15-18=-247/1226, 11-14=-294/153,  
 12-14=-311/1453

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-10, Interior(1) 3-3-10 to 26-10-5, Exterior(2R) 26-10-5 to 31-7-14, Interior(1) 31-7-14 to 34-10-5, Exterior(2R) 34-10-5 to 39-7-15, Interior(1) 39-7-15 to 47-10-4 zone; porch left 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 100 lb uplift at joint(s) except (it=lb) 2=209, 13=236, 22=452.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: September 7, 2021

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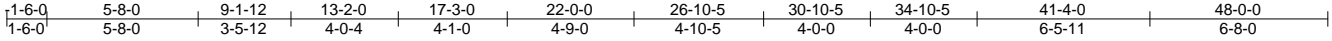


Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257045
2911950	T08	Piggyback Base	7	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:00 2021 Page 1

ID:b2ldskJGjOxOjHDJpp?LTyh2aU-93nP38LZ7gr3WzyGTadN1BmrvxXS4ih42WvSVZygj7P



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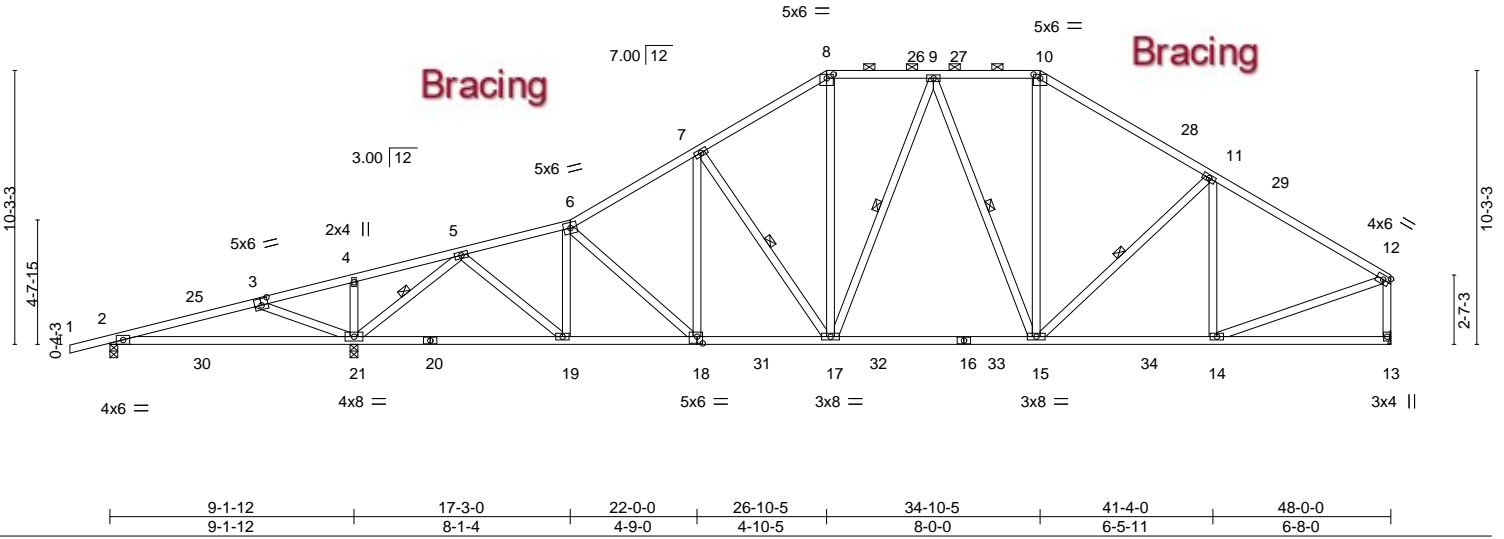


Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-3-0,0-1-12], [10:0-3-0,0-1-12], [18:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.75	Vert(LL) 0.30 21-24 >372 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Vert(CT) 0.26 21-24 >424 180		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.07 13 n/a n/a		
				Weight: 307 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-11-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 8-10.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 5-21, 7-17, 9-17, 9-15, 11-15

**REACTIONS.**

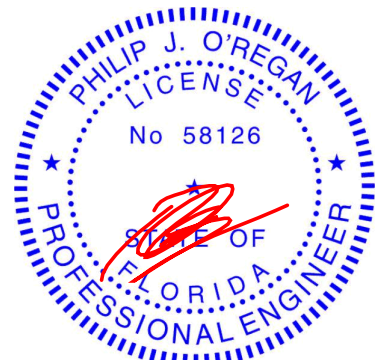
(size) 2=0-3-8, 21=0-3-8, 13=Mechanical  
 Max Horz 2=231(LC 9)  
 Max Uplift 2=-195(LC 8), 21=-476(LC 12), 13=-239(LC 13)  
 Max Grav 2=182(LC 23), 21=2303(LC 2), 13=1540(LC 2)

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

TOP CHORD 2-3=-162/701, 3-4=-323/1037, 4-5=-305/1048, 5-6=-1963/455, 6-7=-2033/556,  
 7-8=-1725/548, 8-9=-1445/517, 9-10=-1351/500, 10-11=-1638/519, 11-12=-1692/447,  
 12-13=-1436/399  
 BOT CHORD 2-21=-639/107, 19-21=-237/995, 18-19=-403/1900, 17-18=-383/1720, 15-17=-271/1431,  
 14-15=-318/1407  
 WEBS 3-21=-496/421, 5-21=-2590/676, 5-19=-217/1163, 6-19=-534/237, 6-18=-256/86,  
 7-17=-533/215, 8-17=-156/661, 9-15=-345/161, 10-15=-123/572, 11-14=-301/153,  
 12-14=-320/1438, 7-18=-37/327

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-3-10, Interior(1) 3-3-10 to 26-10-5, Exterior(2R) 26-10-5 to 31-7-14, Interior(1) 31-7-14 to 34-10-5, Exterior(2R) 34-10-5 to 39-7-14, Interior(1) 39-7-14 to 47-10-4 zone; porch left 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.
- All plates are 3x6 MT20 unless otherwise indicated.
- 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 100 lb uplift at joint(s) except (it=lb) 2=195, 21=476, 13=239.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 2021

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257046
2911950	T08G	GABLE	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:02 2021 Page 1

ID:b2ldskJGjOxOjHDJPP?LTyh2aU-5Sv9UqMpel5nIG5ea?fr6cr7DIaQYahNVqOZZSygj7N

1-6-0	5-8-0	9-4-8	13-2-0	17-3-0	22-0-0	26-10-5	30-10-5	34-10-5	39-4-0	45-2-0	51-0-0	52-6-0
1-6-0	5-8-0	3-8-8	3-9-8	4-1-0	4-9-0	4-10-5	4-0-0	4-0-0	4-5-11	5-10-0	5-10-0	1-6-0

Scale = 1:93.4

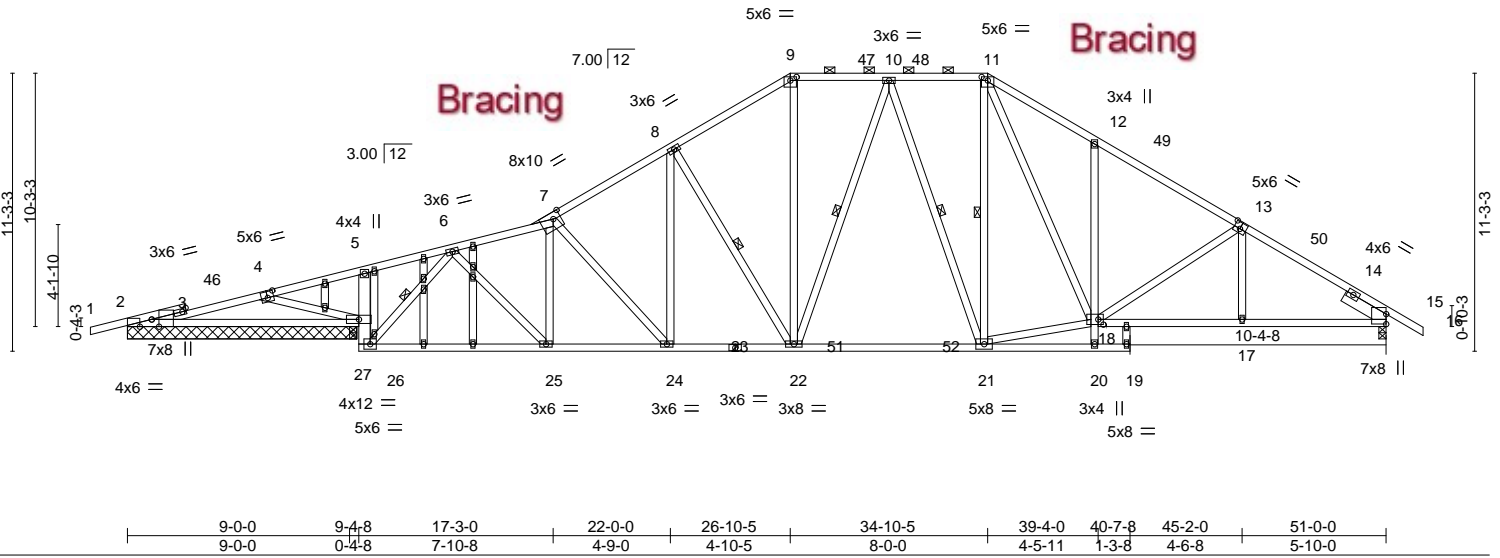


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [2:0-5-12,Edge], [4:0-3-0,0-3-0], [7:0-3-9,0-3-1], [9:0-3-0,0-1-12], [11:0-3-0,0-1-12], [13:0-3-0,0-3-0], [18:0-2-8,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) -0.24	21-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.88	Vert(CT) -0.41	21-22	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.09	15	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 377 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
13-16: 2x4 SP M 31  
BOT CHORD 2x4 SP No.2 \*Except\*  
5-26: 2x6 SP No.2, 12-20: 2x4 SP No.3, 15-18: 2x4 SP M 31  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3  
SLIDER Right 2x6 SP No.2 1-11-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins, except  
2-0-0 oc purlins (4-8-9 max.): 9-11.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 2-27,20-21  
9-9-7 oc bracing: 24-25.  
10-0-0 oc bracing: 18-20  
WEBS 1 Row at midpt 6-26, 8-22, 10-22, 10-21, 11-21

**REACTIONS.**

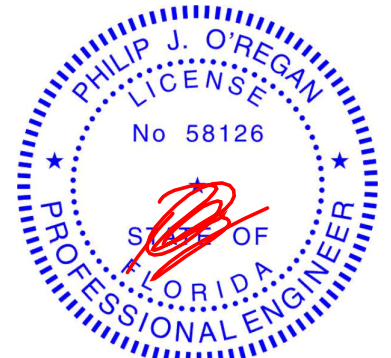
All bearings 9-3-8 except (jt=length) 15=0-3-8.  
(lb) - Max Horz 2=236(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) except 2=-142(LC 8), 27=-459(LC 12), 15=-308(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2 except 2=255(LC 23), 27=2361(LC 2), 27=2138(LC 1), 15=1752(LC 20)

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

TOP CHORD 2-4=-116/477, 4-5=-251/963, 5-6=-167/690, 6-7=-1868/533, 7-8=-2034/608, 8-9=-1803/610, 9-10=-1511/567, 10-11=-1516/568, 11-12=-2288/772, 12-13=-2280/638, 13-15=-2539/636  
BOT CHORD 2-27=-379/80, 26-27=-389/1804, 5-27=-266/128, 25-26=-188/861, 24-25=-363/1762, 22-24=-314/1689, 21-22=-230/1545, 12-18=-343/236, 17-18=-448/2113, 15-17=-447/2113  
WEBS 4-27=-632/230, 6-26=-2243/547, 6-25=-266/1336, 7-25=-704/232, 8-22=-406/213, 9-22=-193/705, 10-22=-276/143, 10-21=-251/166, 18-21=-190/1547, 11-18=-338/1110, 13-18=-295/159

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 3-7-3, Interior(1) 3-7-3 to 26-10-5, Exterior(2R) 26-10-5 to 31-11-8, Interior(1) 31-11-8 to 34-10-5, Exterior(2R) 34-10-5 to 39-11-8, Interior(1) 39-11-8 to 52-6-0 zone; porch left 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 7, 2021

Continued on page 2

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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	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257046
2911950	T08G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:02 2021 Page 2  
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**NOTES-**

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 2, 459 lb uplift at joint 27, 308 lb uplift at joint 15 and 142 lb uplift at joint 2.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**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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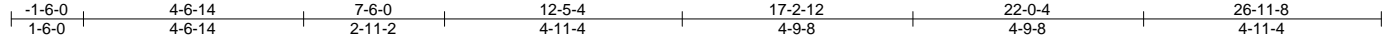


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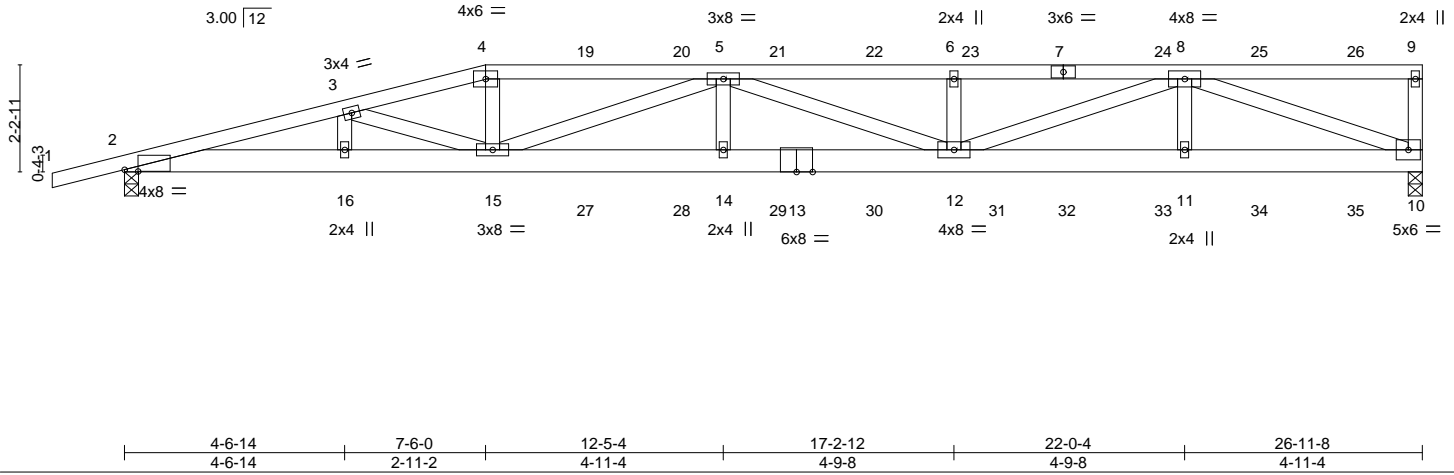


Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257048
2911950	T10	Half Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:06 2021 Page 1  
 ID:b2ldskJGjOxOjHDJPPp?LTyh2aU-\_D8gKCPKiWbCEuPPprjnHS0oqMXDUN\_zQSMniDygi7J



Scale: 1/4"=1'



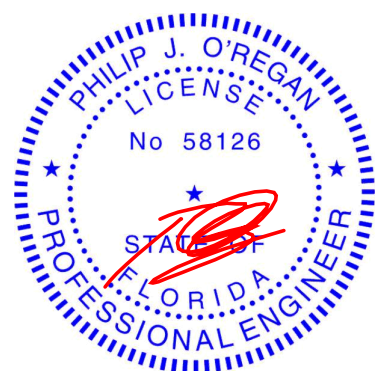
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.92	Vert(LL) -0.35 12-14 >926 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.72	Vert(CT) -0.64 12-14 >499 180		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.10 10 n/a n/a		
				Weight: 301 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-9-10 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.3	

**REACTIONS.** (size) 10=0-3-8, 2=0-3-8  
 Max Horz 2=82(LC 23)  
 Max Uplift 10=-583(LC 4), 2=-559(LC 4)  
 Max Grav 10=2338(LC 1), 2=2169(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-7467/1758, 3-4=-7540/1776, 4-5=-7421/1755, 5-6=-7909/1868, 6-8=-7909/1868  
 BOT CHORD 2-16=-1740/7225, 15-16=-1740/7225, 14-15=-2084/8808, 12-14=-2084/8808,  
 11-12=-1244/5156, 10-11=-1244/5156  
 WEBS 3-15=-289/335, 4-15=-231/1382, 5-15=-1587/384, 5-14=0/435, 5-12=-963/270,  
 6-12=-534/252, 8-12=-668/2950, 8-11=0/517, 8-10=-5390/1294

- 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: 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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 583 lb uplift at joint 10 and 559 lb uplift at joint 2.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 86 lb up at 7-6-0, 120 lb down and 86 lb up at 9-6-12, 120 lb down and 86 lb up at 11-6-12, 120 lb down and 86 lb up at 13-6-12, 120 lb down and 86 lb up at 15-6-12, 120 lb down and 81 lb up at 17-6-12, 120 lb down and 86 lb up at 19-6-12, 120 lb down and 86 lb up at 21-6-12, and 19 lb down and 44 lb up at 23-6-12, and 19 lb down and 44 lb up at 25-6-12 on top chord, and 568 lb down and 135 lb up at 7-6-0, 92 lb down at 9-6-12, 92 lb down at 11-6-12, 92 lb down at 13-6-12, 92 lb down at 15-6-12, 92 lb down at 17-6-12, 92 lb down at 19-6-12, 92 lb down at 21-6-12, and 182 lb down and 59 lb up at 23-6-12, and 182 lb down and 59 lb up at 25-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 2021

Continued on page 2

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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/TP1 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 2911950	Truss T10	Truss Type Half Hip Girder	Qty 1	Ply <b>2</b>	IC CONST. - SHAHEEN RES. Job Reference (optional)	T25257048
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:06 2021 Page 2  
ID:b2ldskJGjOxOjHDJPP?LTyh2aU-\_D8gKCPKiWbCEuPPprjnHS0oqMXDUN\_zQSMniDygi7J

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-120(F) 7=-120(F) 15=-568(F) 19=-120(F) 20=-120(F) 21=-120(F) 22=-120(F) 23=-120(F) 24=-120(F) 25=-19(F) 26=-19(F) 27=-73(F) 28=-73(F) 29=-73(F)  
30=-73(F) 31=-73(F) 32=-73(F) 33=-73(F) 34=-182(F) 35=-182(F)

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

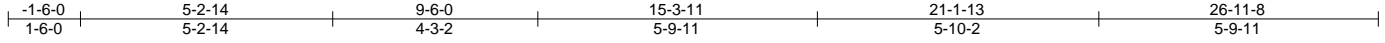
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



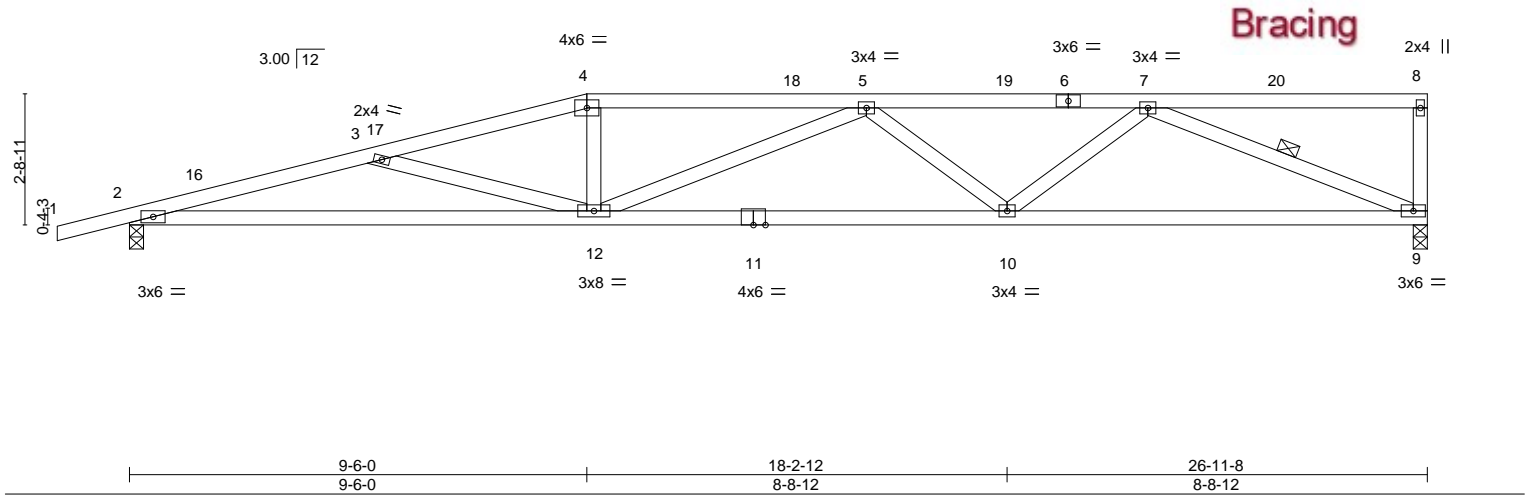
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257049
2911950	T11	Half Hip	1	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:07 2021 Page 1  
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Scale: 1/4"=1'



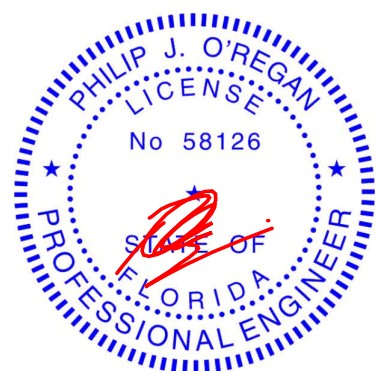
9-6-0 9-6-0		18-2-12 8-8-12		26-11-8 8-8-12	
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.99	Vert(LL) -0.23 10-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.50	Vert(CT) -0.47 10-12 >690 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 9 n/a n/a		
	Code FBC2020/TPI2014			Weight: 125 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-6 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-9

**REACTIONS.** (size) 9=0-3-8, 2=0-3-8  
 Max Horz 2=99(LC 8)  
 Max Uplift 9=271(LC 8), 2=322(LC 8)  
 Max Grav 9=990(LC 1), 2=1075(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-3126/894, 3-4=-2657/703, 4-5=-2571/704, 5-7=-2386/617  
 BOT CHORD 2-12=-923/3017, 10-12=-769/2711, 9-10=-534/1847  
 WEBS 3-12=-485/230, 4-12=-34/418, 5-12=-329/140, 5-10=-422/221, 7-10=-134/705, 7-9=-1951/574


- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-6-0, Exterior(2R) 9-6-0 to 13-8-15, Interior(1) 13-8-15 to 26-9-12 zone; 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 271 lb uplift at joint 9 and 322 lb uplift at joint 2.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 2021

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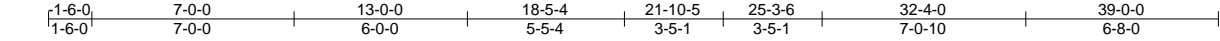
6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257050
2911950	T12G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:10 2021 Page 1

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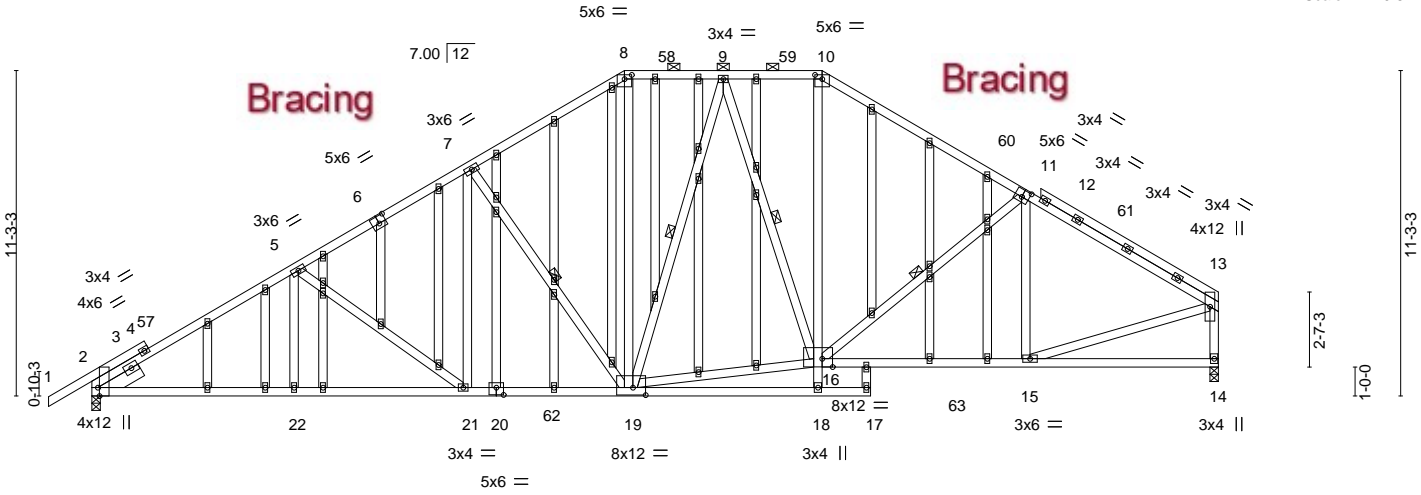


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-0,0-3-0], [8:0-3-0,0-1-12], [10:0-3-0,0-1-12], [11:0-3-0,0-3-0], [16:0-4-5,0-3-7], [19:0-5-4,0-3-2], [20:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.71	Vert(LL) -0.15 15-16 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.61	Vert(CT) -0.28 15-16 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.08 14 n/a n/a		
				Weight: 439 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 10-18: 2x4 SP No.3  
 WEBS 2x4 SP No.3  
 OTHERS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-7-5

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-1 max.); 8-10. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 BOT CHORD 8-4-12 oc bracing: 2-22  
 8-7-1 oc bracing: 21-22.  
 10-0-0 oc bracing: 16-18  
 WEBS 1 Row at midpt 7-19, 9-19, 9-16, 11-16

**REACTIONS.**

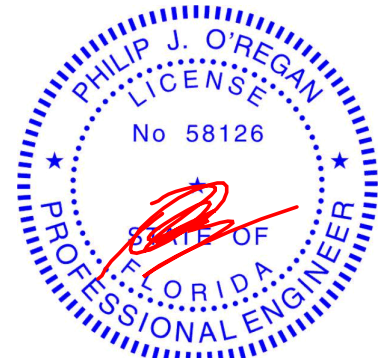
(size) 2=0-3-8, 14=0-3-8  
 Max Horz 2=237(LC 9)  
 Max Uplift 2=-318(LC 12), 14=-239(LC 13)  
 Max Grav 2=1703(LC 19), 14=1604(LC 2)

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

TOP CHORD 2-5=-2436/399, 5-7=-2108/379, 7-8=-1693/345, 8-9=-1412/337, 9-10=-1448/306,  
 10-11=-1759/306, 11-13=-1855/277, 13-14=-1510/254  
 BOT CHORD 2-22=-477/2204, 21-22=-475/2196, 19-21=-334/1839, 10-16=-85/619, 15-16=-180/1570  
 WEBS 5-21=-438/174, 7-21=-65/483, 7-19=-721/256, 8-19=-94/632, 9-19=-279/150,  
 16-19=-156/1410, 11-16=-269/180, 11-15=-301/105, 13-15=-178/1602

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-13, Interior(1) 2-4-13 to 18-5-4, Exterior(2R) 18-5-4 to 23-11-7, Interior(1) 23-11-7 to 25-3-6, Exterior(2R) 25-3-6 to 30-9-9, Interior(1) 30-9-9 to 38-10-4 zone; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 2 and 239 lb uplift at joint 14.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date: September 7, 2021

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257051
2911950	T13	Roof Special	5	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:11 2021 Page 1  
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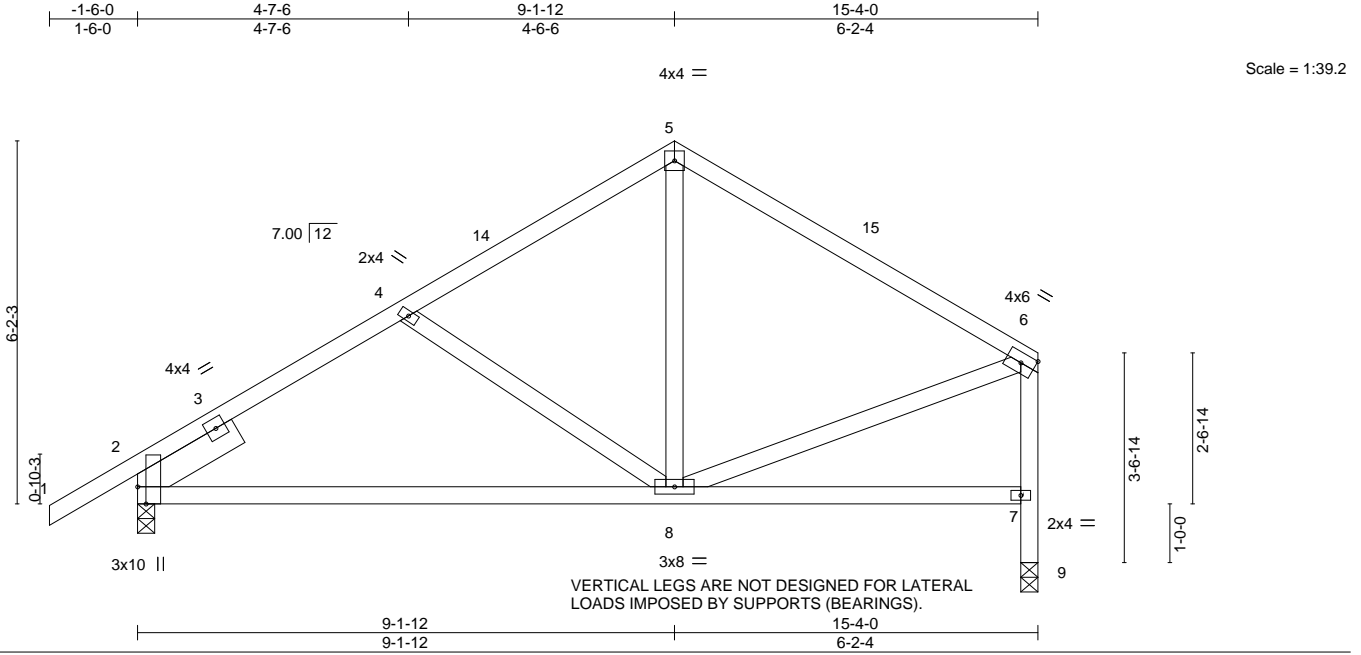


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.44	Vert(LL) -0.10	8-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.21	8-12	>889	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 87 lb	FT = 20%

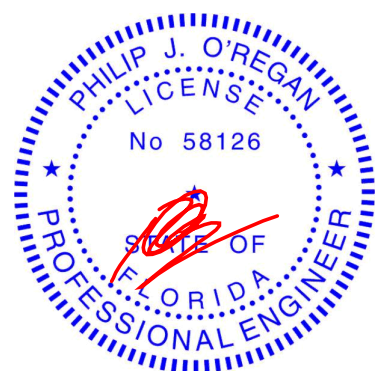
**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
6-9: 2x4 SP No.2  
SLIDER Left 2x6 SP No.2 1-11-8

**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) 2=0-3-8, 9=0-3-8  
Max Horz 2=140(LC 12)  
Max Uplift 2=-147(LC 12), 9=-100(LC 13)  
Max Grav 2=647(LC 1), 9=558(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-635/179, 4-5=-498/147, 5-6=-518/139, 7-9=-558/130, 6-7=-509/141  
BOT CHORD 2-8=-197/565  
WEBS 5-8=-17/277, 6-8=-59/354

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-1-12, Exterior(2R) 9-1-12 to 12-1-12, Interior(1) 12-1-12 to 15-2-4 zone; 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.
  - Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 2 and 100 lb uplift at joint 9.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date: September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257052
2911950	T14G	Common Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:12 2021 Page 1  
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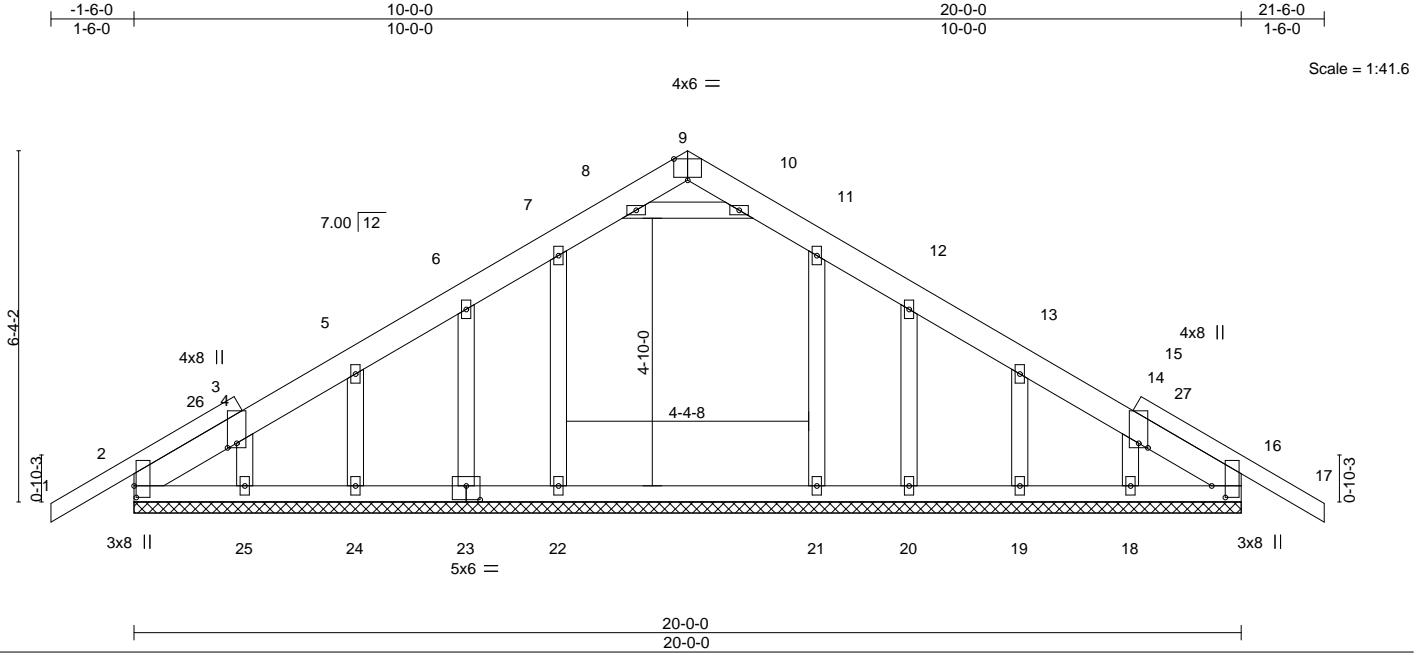


Plate Offsets (X,Y)-- [2:0-2-8,0-0-7], [3:0-1-0,0-2-0], [9:0-3-0,Edge], [15:0-1-0,0-2-0], [16:0-2-8,0-2-15], [23:0-3-0,0-3-0]

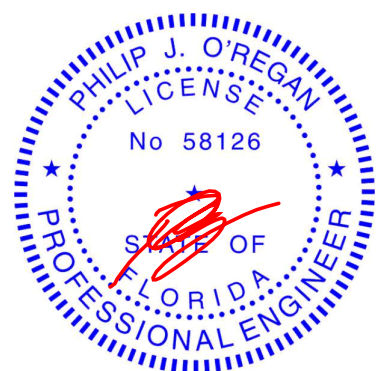
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.12	Vert(LL) -0.01	17	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.19	Vert(CT) -0.01	17	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00	16	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 131 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-4,14-17: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

**REACTIONS.** All bearings 20-0-0.  
(lb) - Max Horz 2=-138(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 22, 23, 24, 25, 20, 19, 18  
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 20, 19, 18 except 22=358(LC 19), 21=331(LC 20)

**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=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 10-0-0, Corner(3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 to 21-6-0 zone; porch 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 2x4 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, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 22, 23, 24, 25, 20, 19, 18.



Philip J. O'Regan PE No.58126  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

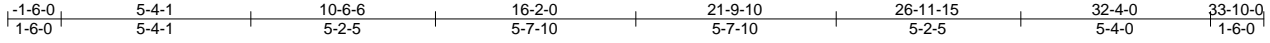
September 7, 2021

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257053
2911950	T15	Common	3	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

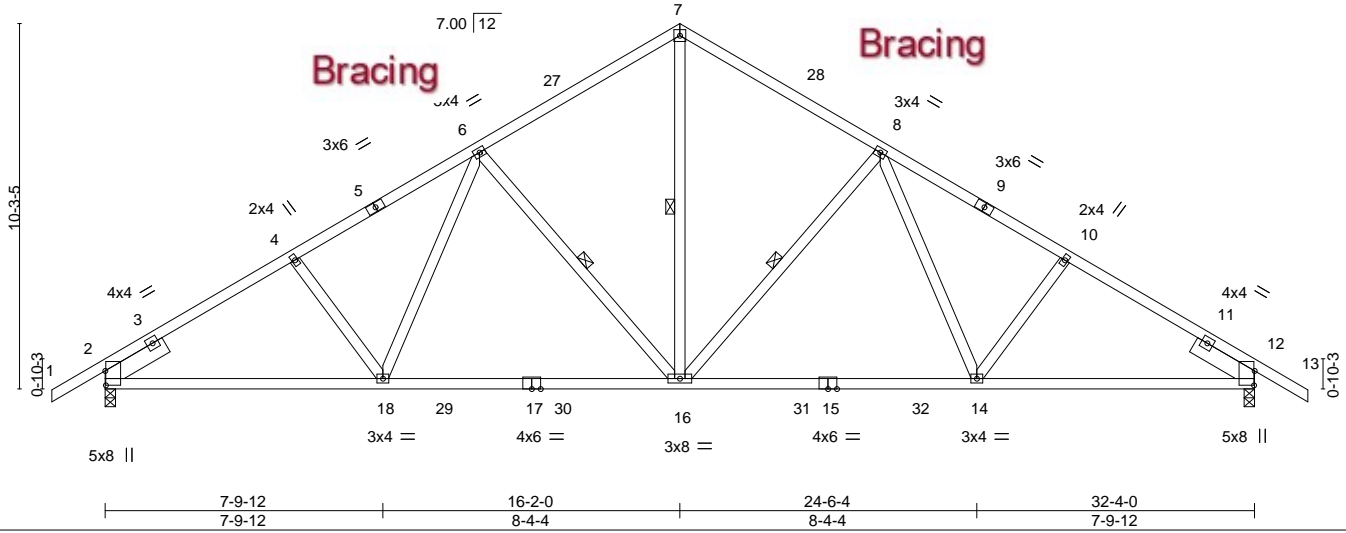
8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:13 2021 Page 1

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4x4 =

Scale = 1:64.8



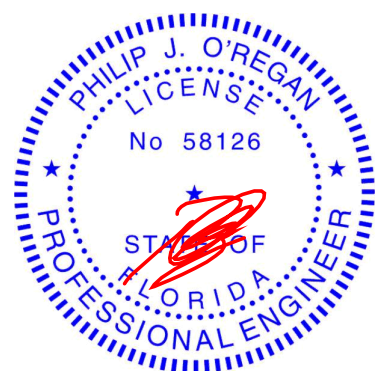
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.89	Vert(LL) -0.24 16-18 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.47	Vert(CT) -0.39 16-18 >987 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.10 12 n/a n/a		
				Weight: 191 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 5-4-15 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-16, 8-16, 6-16
SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8	

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8  
 Max Horz 2=227(LC 11)  
 Max Uplift 2=-273(LC 12), 12=-273(LC 13)  
 Max Grav 2=1393(LC 2), 12=1393(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1943/1348, 4-6=-1839/1367, 6-7=-1370/1048, 7-8=-1370/1048, 8-10=-1839/1367, 10-12=-1943/1348  
 BOT CHORD 2-18=-1061/1605, 16-18=-893/1429, 14-16=-901/1429, 12-14=-1070/1605  
 WEBS 7-16=-935/1093, 8-16=-514/387, 8-14=-359/377, 6-16=-514/387, 6-18=-359/377

- NOTES-**
- Unbalanced roof live loads HAVING been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-13, Interior(1) 1-8-13 to 16-2-0, Exterior(2R) 16-2-0 to 19-4-13, Interior(1) 19-4-13 to 33-10-0 zone; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 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, 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) 2=273, 12=273.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 2021

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6904 Parke East Blvd.  
 Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257055
2911950	T16	Common	1	1		

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:17 2021 Page 1  
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4x4 =

Scale = 1:64.8

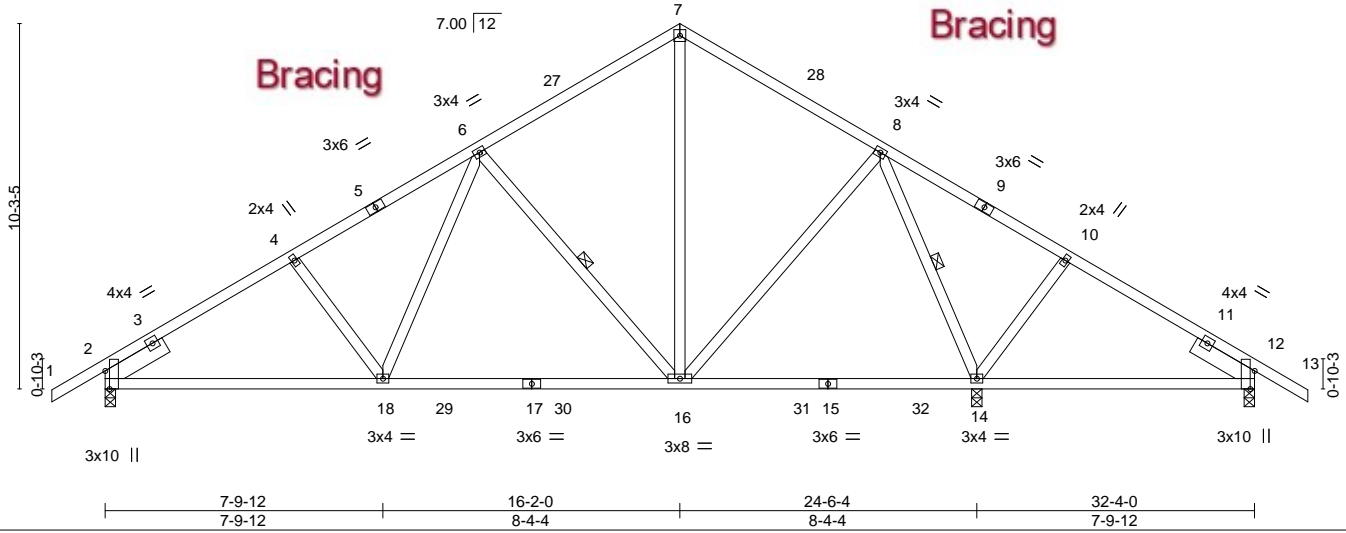


Plate Offsets (X,Y)-- [2:0-6-2,Edge], [12:0-6-2,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.77	Vert(LL) 0.13 14-25 >714 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Vert(CT) -0.26 16-18 >999 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.03 14 n/a n/a		
				Weight: 191 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 WEBS 1 Row at midpt 6-16, 8-14

**REACTIONS.**

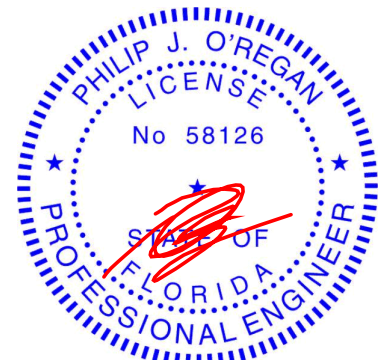
(size) 2=0-3-8, 14=0-3-8, 12=0-3-8  
 Max Horz 2=227(LC 11)  
 Max Uplift 2=-221(LC 12), 14=-217(LC 12), 12=-162(LC 8)  
 Max Grav 2=1095(LC 19), 14=1463(LC 19), 12=366(LC 24)

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

TOP CHORD 2-4=-1385/316, 4-6=-1283/329, 6-7=-720/296, 7-8=-712/291, 8-10=-66/303,  
 10-12=-385/555  
 BOT CHORD 2-18=-296/1294, 16-18=-177/1014, 14-16=-100/306  
 WEBS 6-18=-81/471, 6-16=-602/250, 7-16=-172/420, 8-16=-44/529, 8-14=-1117/210,  
 10-14=-275/167

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-13, Interior(1) 1-8-13 to 16-2-0, Exterior(2R) 16-2-0 to 19-4-13, Interior(1) 19-4-13 to 33-10-0 zone; 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.
- 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) 2=221, 14=217, 12=162.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 7, 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 33610

Job 2911950	Truss T17	Truss Type Common	Qty 1	Ply 1	IC CONST. - SHAHEEN RES. Job Reference (optional)	T25257056
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:19 2021 Page 1  
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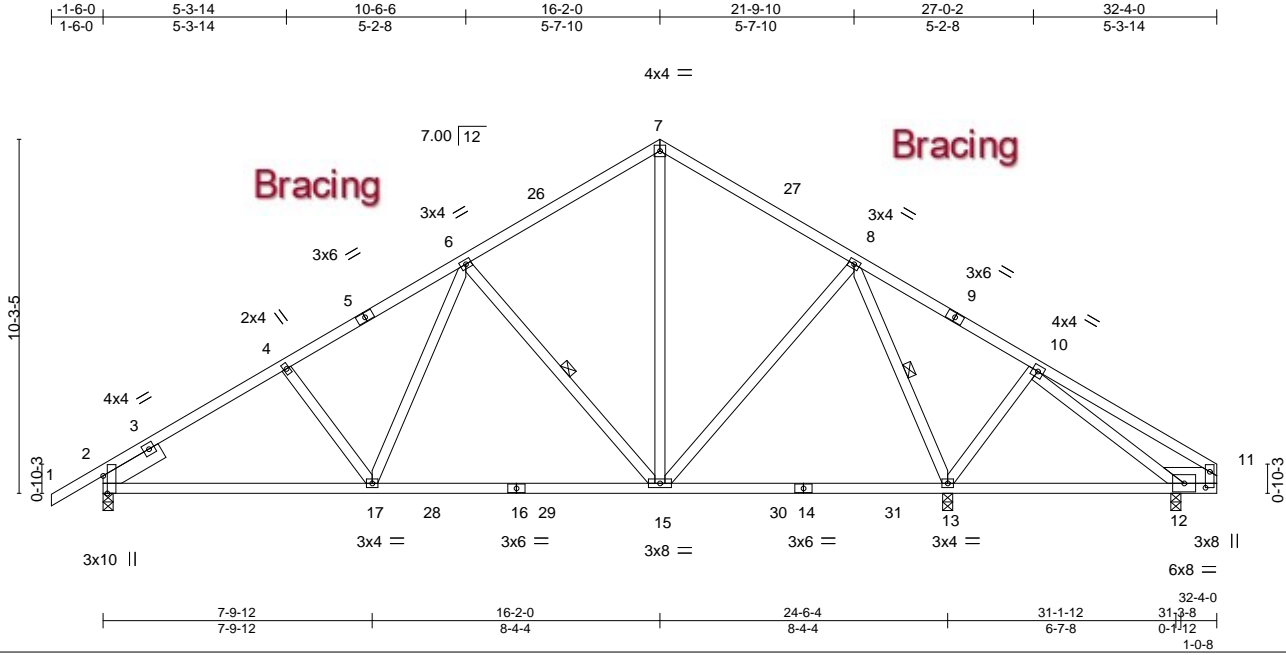


Plate Offsets (X,Y)-- [2:0-6-2,Edge], [11:0-5-9,0-1-8]

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 0.39	Vert(LL) -0.15 15-17 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.76	Vert(CT) -0.25 15-17 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.38	Horz(CT) 0.03 13 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 195 lb FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-6-9

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 6-15, 8-13

**REACTIONS.**

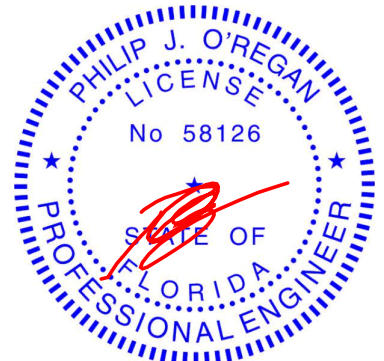
(size) 2=0-3-8, 13=0-3-8, 12=0-3-8  
 Max Horz 2=221(LC 9)  
 Max Uplift 2=-212(LC 12), 13=-269(LC 13), 12=-95(LC 8)  
 Max Grav 2=1058(LC 19), 13=1647(LC 2), 12=200(LC 24)

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

TOP CHORD 2-4=-1321/260, 4-6=-1219/268, 6-7=-635/203, 7-8=-643/206, 8-10=-48/483  
 BOT CHORD 2-17=-297/1232, 15-17=-177/946  
 WEBS 6-17=-82/477, 6-15=-605/251, 7-15=-90/337, 8-15=-66/625, 8-13=-1285/247,  
 10-13=-295/171, 10-12=-172/332

**NOTES-**

- Unbalanced roof live loads HAVING been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-13, Interior(1) 1-8-13 to 16-2-0, Exterior(2R) 16-2-0 to 19-4-13, Interior(1) 19-4-13 to 32-4-0 zone; cantilever 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.
- 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) 12 except (jt=lb) 2=212, 13=269.



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
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 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SHAHEEN RES.	T25257057
2911950	T18	Common Girder	1	<b>2</b>	Job Reference (optional)	

Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:22 2021 Page 1  
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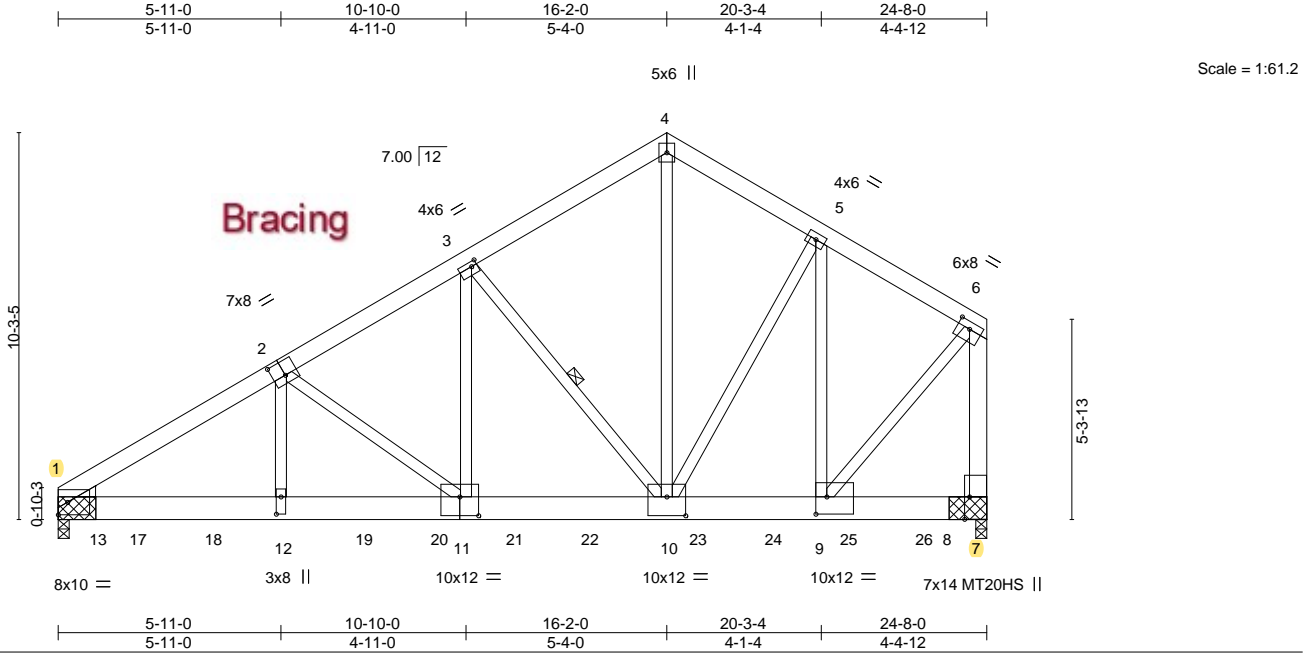


Plate Offsets (X,Y)-- [2:0-4-0,0-4-8], [3:0-1-12,0-1-8], [6:0-4-0,0-2-4], [7:0-7-2,0-1-9], [9:0-3-8,0-5-8], [10:0-6-0,0-6-0], [11:0-6-0,0-6-0], [12:0-5-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.49	Vert(LL) -0.17 11-12 >999 240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.88	Vert(CT) -0.30 11-12 >990 180		
BCDL 10.0	Code FBC2020/TP12014	Matrix-MS	Horz(CT) 0.06 7 n/a n/a		
				Weight: 491 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.3 \*Except\*  
 3-11,4-10,6-9: 2x4 SP No.2, 6-7: 2x6 SP No.2  
 WEDGE  
 Left: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-10

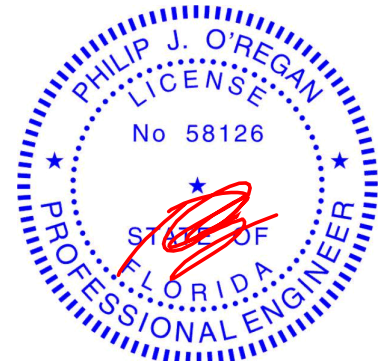
**REACTIONS.** (size) 1=(0-3-8 + bearing block) (req. 0-5-10), 7=(0-3-8 + bearing block) (req. 0-6-0)  
 Max Horz 1=230(LC 8)  
 Max Uplift 1=1590(LC 8), 7=1705(LC 8)  
 Max Grav 1=9574(LC 2), 7=10189(LC 2)

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

TOP CHORD 1-2=14635/2428, 2-3=-11485/1945, 3-4=-7320/1284, 4-5=-7282/1304, 5-6=-6067/1042, 6-7=-9115/1545  
 BOT CHORD 1-12=-2248/12547, 11-12=-2248/12547, 10-11=-1712/9747, 9-10=-863/5152  
 WEBS 2-12=-528/3543, 2-11=-3369/650, 3-11=-1002/6140, 3-10=-5486/1040, 4-10=-1186/6985, 5-10=-414/2384, 5-9=-2673/496, 6-9=-1298/7763

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 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.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 1 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
- 2x8 SP 2400F 2.0E bearing block 12" long at jt. 7 attached to each face with 4 rows of 10d (0.131"x3") nails spaced 3" o.c. 16 Total fasteners per block. Bearing is assumed to be SP No.2.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- All plates are MT20 plates unless otherwise indicated.
- 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) except (jt=lb)



Philip J. O'Regan PE No.58126  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
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September 7, 2021

Continued on page 2

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2911950	Truss T18	Truss Type Common Girder	Qty 1	Ply <b>2</b>	IC CONST. - SHAHEEN RES. Job Reference (optional)	T25257057
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Sun Sep 5 10:03:22 2021 Page 2  
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**NOTES-**

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1525 lb down and 256 lb up at 2-0-12, 1525 lb down and 256 lb up at 4-0-12, 1549 lb down and 255 lb up at 6-0-12, 1520 lb down and 259 lb up at 8-0-12, 1520 lb down and 259 lb up at 10-0-12, 1520 lb down and 259 lb up at 12-0-12, 1520 lb down and 259 lb up at 14-0-12, 1520 lb down and 259 lb up at 16-0-12, 1520 lb down and 259 lb up at 16-11-4, 1493 lb down and 259 lb up at 18-11-4, and 1493 lb down and 259 lb up at 20-11-4, and 1493 lb down and 259 lb up at 22-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 7-14=-20

Concentrated Loads (lb)

Vert: 12=-1375(B) 10=-1350(B) 17=-1375(B) 18=-1375(B) 19=-1350(B) 20=-1350(B) 21=-1350(B) 22=-1350(B) 23=-1350(B) 24=-1335(B) 25=-1335(B) 26=-1335(B)

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

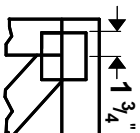
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



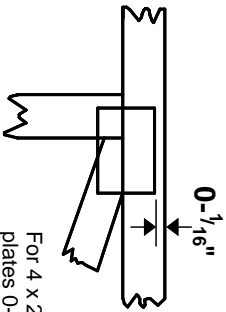
6904 Parke East Blvd.  
Tampa, FL 36610

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

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

## PLATE SIZE

4 X 4

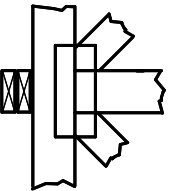
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



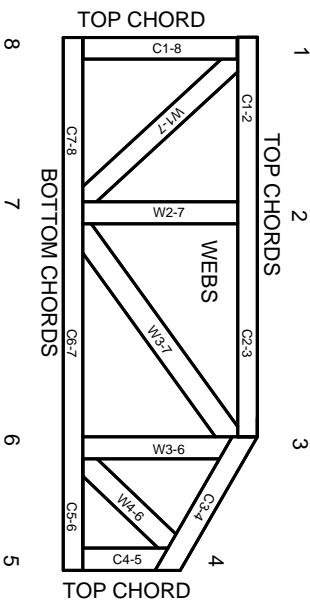
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, 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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# 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 T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020