



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

RE: 2302105 - RandM Const. - Burks Res.

MiTek USA, Inc.

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: R and M Const. Project Name: Burks Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 846 Woodland Ave., N/A

City: Columbia Cty State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2017/TPI2014

Design Program: MiTek 20/20 8.2

Wind Code: ASCE 7-10

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.

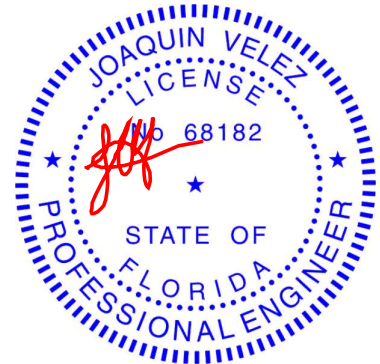
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T19835963	CJ01	3/30/20	23	T19835985	T10	3/30/20
2	T19835964	CJ01A	3/30/20	24	T19835986	T11	3/30/20
3	T19835965	CJ03	3/30/20	25	T19835987	T12	3/30/20
4	T19835966	CJ03A	3/30/20	26	T19835988	T13	3/30/20
5	T19835967	CJ05	3/30/20	27	T19835989	T14	3/30/20
6	T19835968	CJ05A	3/30/20	28	T19835990	T15	3/30/20
7	T19835969	EJ01	3/30/20	29	T19835991	T16	3/30/20
8	T19835970	EJ02	3/30/20	30	T19835992	T17	3/30/20
9	T19835971	EJ03	3/30/20	31	T19835993	T18	3/30/20
10	T19835972	EJ04	3/30/20				
11	T19835973	HJ09	3/30/20				
12	T19835974	HJ10	3/30/20				
13	T19835975	HJ10A	3/30/20				
14	T19835976	T01	3/30/20				
15	T19835977	T01G	3/30/20				
16	T19835978	T02	3/30/20				
17	T19835979	T03	3/30/20				
18	T19835980	T05	3/30/20				
19	T19835981	T06	3/30/20				
20	T19835982	T07	3/30/20				
21	T19835983	T08	3/30/20				
22	T19835984	T09	3/30/20				

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

Truss Design Engineer's Name: Velez, Joaquin

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

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



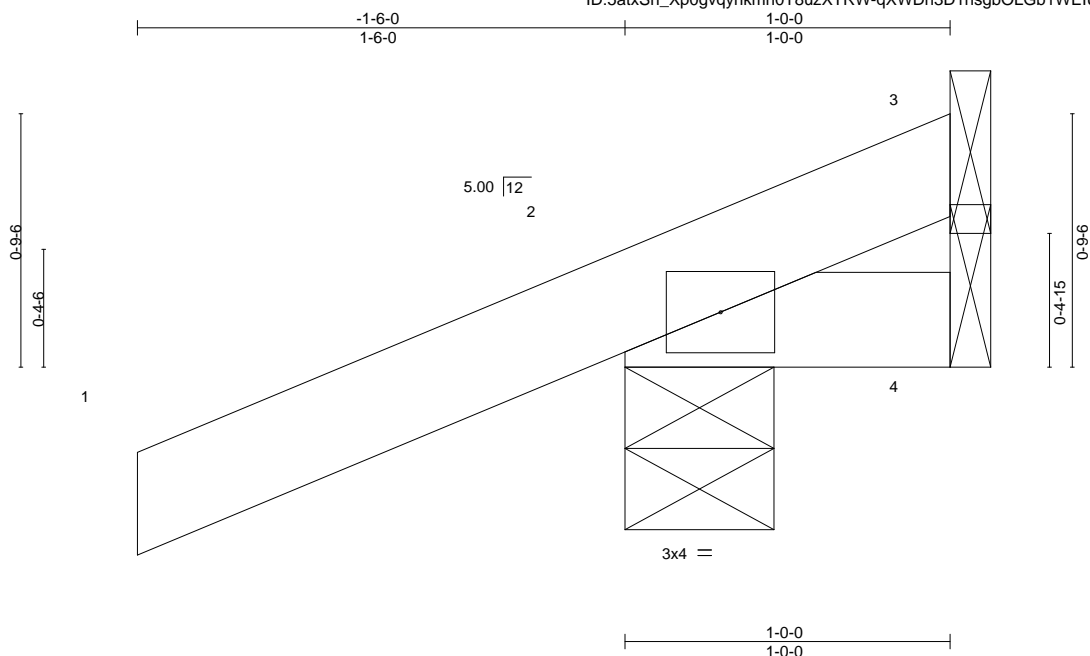
Joaquin Velez PE No.68182  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

March 30, 2020

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835963
2302105	CJ01	Jack-Open	8	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:47 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-qXWDh3D1nsgbOLGb1WEIUXst5\_III5ANL?6tnjzVjc2



Scale = 1:7.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.16	Vert(LL)	0.00	5	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						
								Weight: 6 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

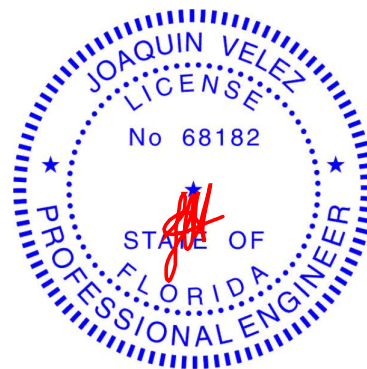
#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=46(LC 8)  
Max Uplift 3=-6(LC 1), 2=-127(LC 8), 4=-19(LC 1)  
Max Grav 3=15(LC 8), 2=179(LC 1), 4=28(LC 8)

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

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=127.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

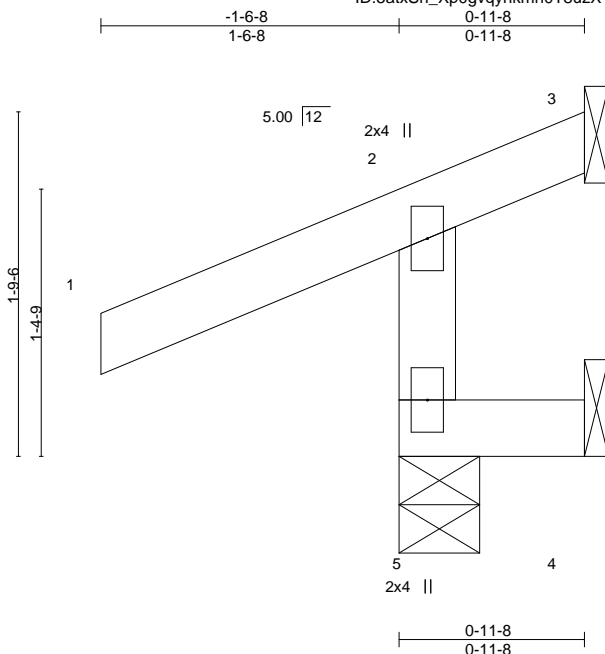


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835964
2302105	CJ01A	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:48 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-lk4buODfYAoS0UqobDIX0lO0oO4uRYQXZfrQJ9zVjc1



Scale: 1"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	0.00	5	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR						
								Weight: 7 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 0-11-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

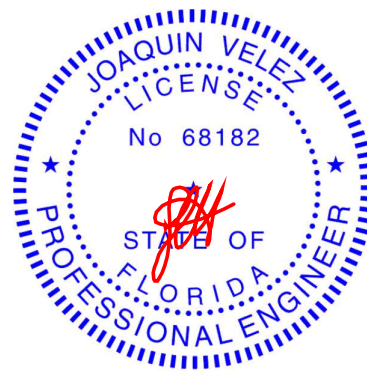
#### REACTIONS.

(size) 5=0-5-0, 3=Mechanical, 4=Mechanical  
Max Horz 5=58(LC 9)  
Max Uplift 5=118(LC 8), 3=58(LC 1), 4=25(LC 9)  
Max Grav 5=217(LC 1), 3=36(LC 8), 4=11(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 5=118.



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

March 30, 2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

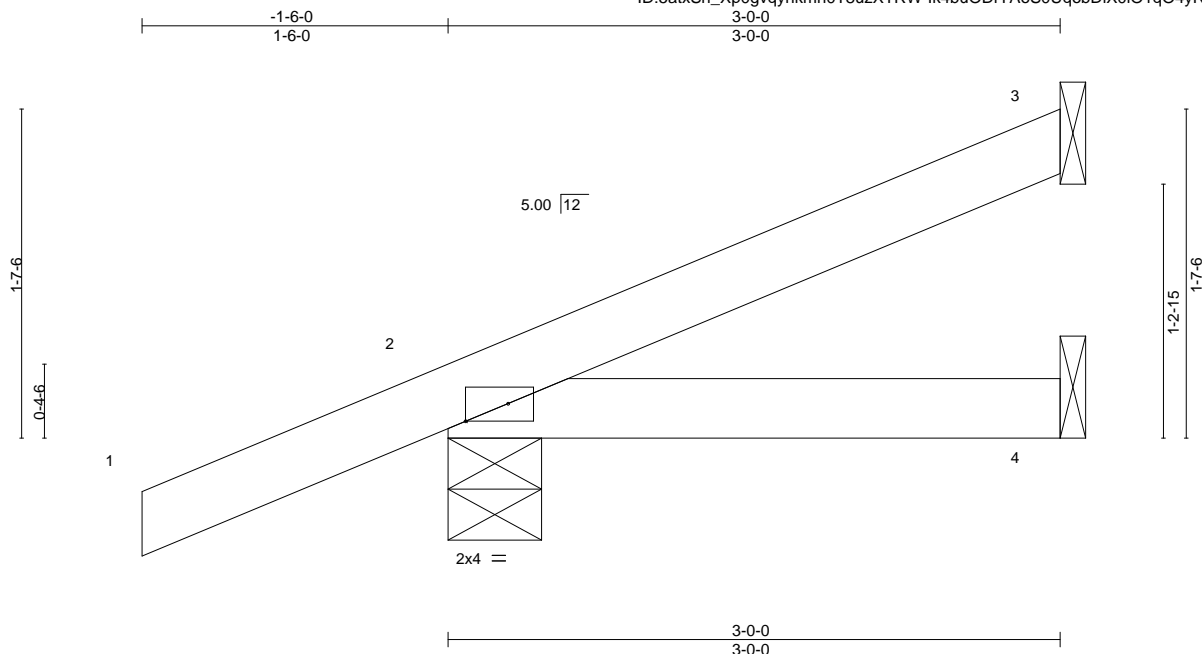


6904 Parke East Blvd.  
Tampa, FL 33610

Job 2302105	Truss CJ03	Truss Type Jack-Open	Qty 8	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835965
----------------	---------------	-------------------------	----------	----------	---	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:48 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-lk4buODfYAoS0UqobDIX0IO1qO4yRYQXZfrQJ9zVjc1



Scale = 1:11.3

Plate Offsets (X,Y)--		[2:0-2-8,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL	1.25	TC 0.16		Vert(LL)	-0.00 4-7	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.07		Vert(CT)	-0.01 4-7	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.00 3	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MP						Weight: 12 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

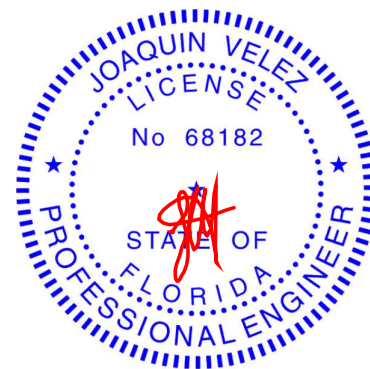
#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=86(LC 12)  
Max Uplift 3=49(LC 12), 2=-104(LC 8)  
Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=104.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

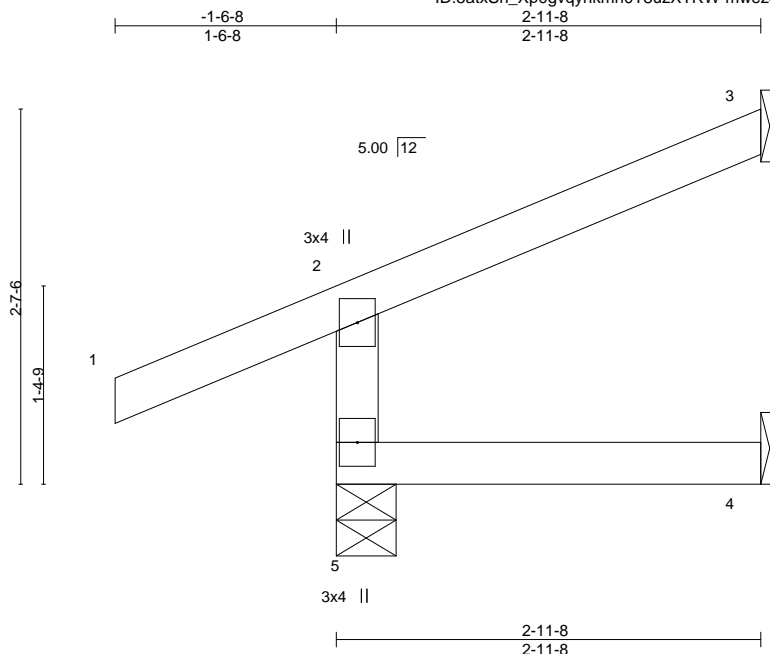


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835966
2302105	CJ03A	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:49 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-mwez5kEHJTWJeeP\_9xHmZyxAXoPoA?ggoJbzsczVjc0



Scale: 3/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.01 4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.16	Vert(CT)	-0.01 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR					Weight: 13 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

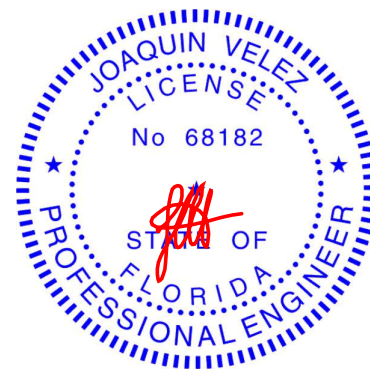
TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-5-0, 3=Mechanical, 4=Mechanical  
Max Horz 5=84(LC 9)  
Max Uplift 5=92(LC 8), 3=-62(LC 12), 4=-7(LC 9)  
Max Grav 5=221(LC 1), 3=51(LC 1), 4=50(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610





Job 2302105	Truss CJ05A	Truss Type Jack-Open	Qty 4	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835968
----------------	----------------	-------------------------	----------	----------	---	-----------

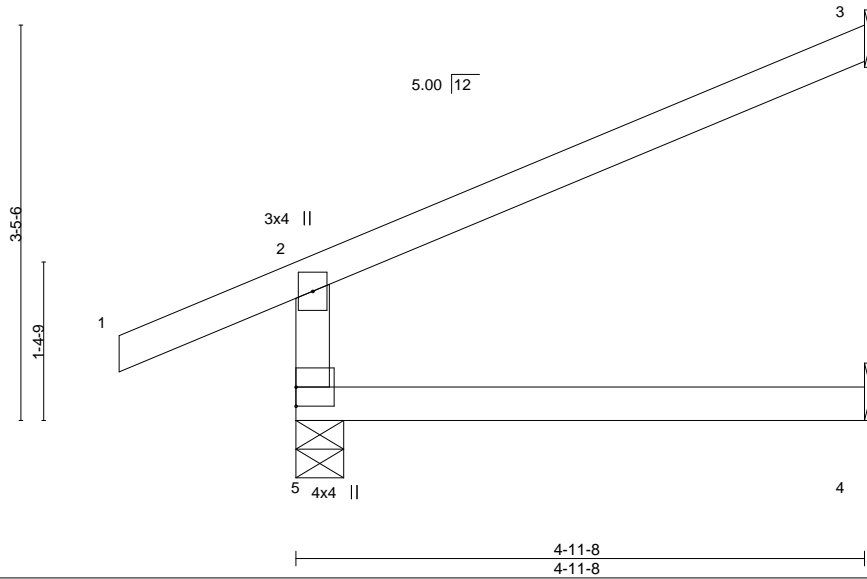
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:51 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-jJkWQGYr5A1tyZNGMJEEeN0S9b1DevAzGd44wUzVjc\_



Scale = 1:20.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	0.04 4-5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.05 4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.06 3	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MR					Weight: 19 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 4-11-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

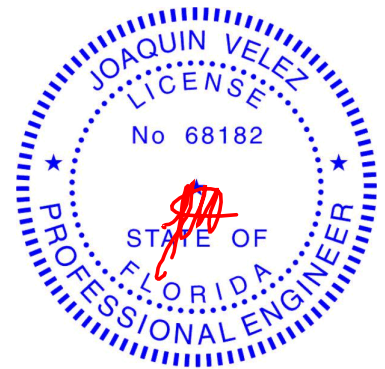
(size) 5=0-5-0, 3=Mechanical, 4=Mechanical  
Max Horz 5=111(LC 9)  
Max Uplift 5=-102(LC 12), 3=-110(LC 12), 4=-8(LC 12)  
Max Grav 5=283(LC 1), 3=110(LC 1), 4=88(LC 3)

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

TOP CHORD 2-5=-237/268

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=102, 3=110.



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



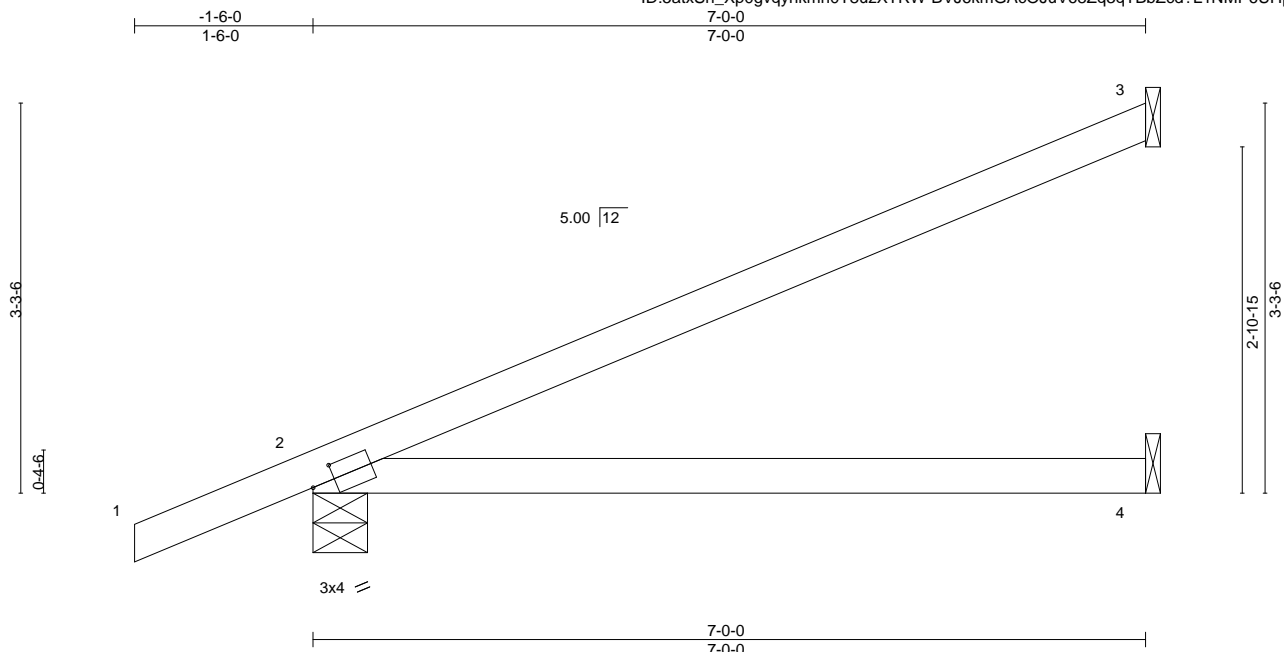
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2302105	Truss EJ01	Truss Type Jack-Partial	Qty 8	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835969
----------------	---------------	----------------------------	----------	----------	---	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:52 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-BVJ6kmGAcOJuV68Zq3qTBbZcd?L1NMP6UHpdRwzVjbz



Scale = 1:19.4

Plate Offsets (X,Y)--		[2:0-2-5,0-1-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL	1.25	TC 0.62		Vert(LL)	0.13 4-7	>621	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.51		Vert(CT)	-0.21 4-7	>392	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MS						Weight: 24 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=0-5-8, 4=Mechanical  
Max Horz 2=115(LC 12)  
Max Uplift 3=87(LC 12), 2=-78(LC 12)  
Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



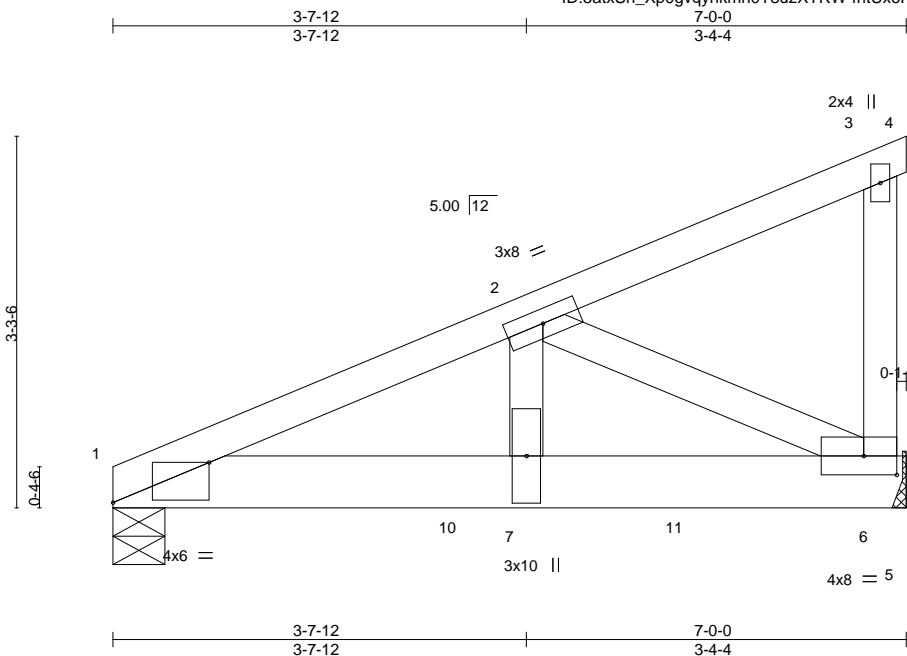
6904 Parke East Blvd.  
Tampa, FL 33610



Job 2302105	Truss EJ02	Truss Type Jack-Open Girder	Qty 1	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835970
----------------	---------------	--------------------------------	----------	----------	---	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:53 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-fhtUx6HoNiRI7GjlOnLjo5qxPav6fJGjxZB\_NzVjby



Scale = 1:20.3

Plate Offsets (X,Y)-- [1:0-10-3,Edge], [6:0-3-8,0-2-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.04 7-9 >999	240	MT20
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.07 7-9 >999	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.60	Horz(CT)	0.02 6 n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS					
								Weight: 38 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=0-5-8, 6=Mechanical  
Max Horz 1=98(LC 8)  
Max Uplift 1=-338(LC 8), 6=-328(LC 8)  
Max Grav 1=1543(LC 1), 6=1310(LC 1)

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

TOP CHORD 1-2=-2190/465  
BOT CHORD 1-7=-498/2022, 6-7=-498/2022  
WEBS 2-7=-324/1568, 2-6=-2241/552

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=338, 6=328.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 782 lb down and 191 lb up at 1-0-12, and 782 lb down and 191 lb up at 3-0-12, and 782 lb down and 191 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-14, 1-5=-20  
Concentrated Loads (lb)  
Vert: 9=-782(B) 10=-782(B) 11=-782(B)



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

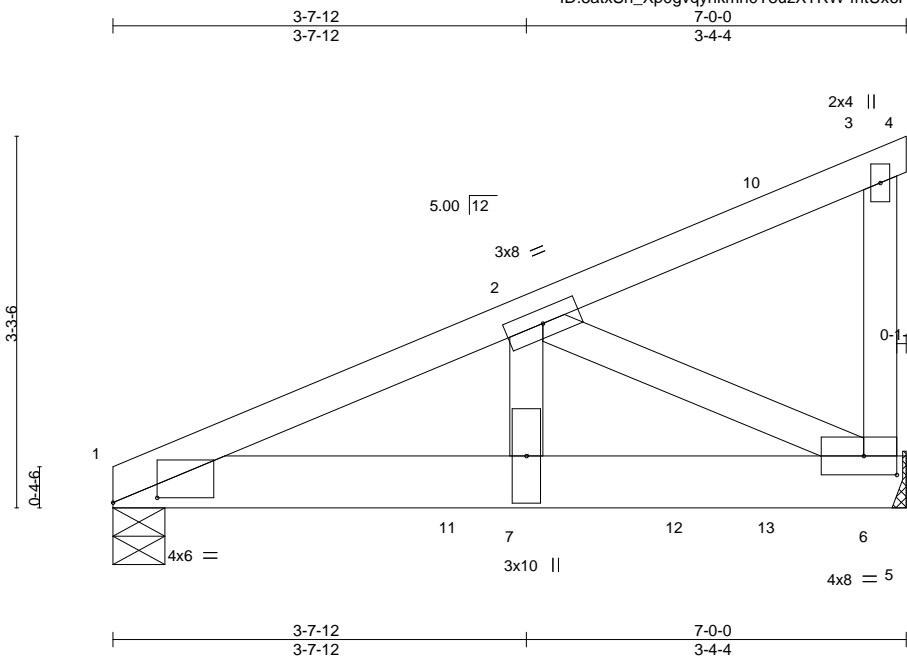


6904 Parke East Blvd.  
Tampa, FL 33610

Job 2302105	Truss EJ03	Truss Type Jack-Open Girder	Qty 1	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835971
----------------	---------------	--------------------------------	----------	----------	---	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:53 2020 Page 1  
ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-fhtUx6HoNiRi7GjIOnLijo5qpPak6efGjxZB\_NzVjby



Scale = 1:20.3

Plate Offsets (X,Y)-- [1:0-4-11,0-0-8], [6:0-3-8,0-2-0]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	<b>L/d</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.40	Vert(LL)	-0.04	7-9	>999
TCDL 7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.07	7-9	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.64	Horz(CT)	0.02	6	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS				
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	244/190		
				Weight: 38 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing.

#### REACTIONS.

(size) 1=0-5-8, 6=Mechanical  
Max Horz 1=98(LC 23)  
Max Uplift 1=-368(LC 8), 6=-527(LC 8)  
Max Grav 1=1589(LC 1), 6=1608(LC 1)

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

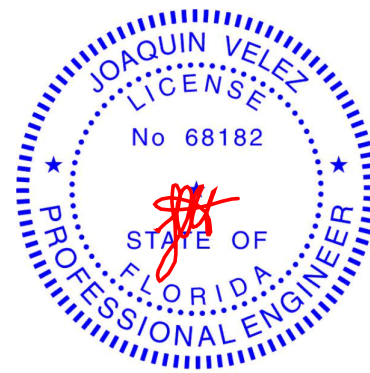
TOP CHORD 1-2=-2342/563  
BOT CHORD 1-7=-593/2163, 6-7=-593/2163  
WEBS 2-7=-360/1654, 2-6=-2398/657

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=368, 6=527.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 148 lb up at 5-10-8 on top chord, and 782 lb down and 191 lb up at 1-0-12, 782 lb down and 191 lb up at 3-0-12, and 782 lb down and 191 lb up at 5-0-12, and 245 lb down and 138 lb up at 5-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-14, 1-5=-20  
Concentrated Loads (lb)  
Vert: 9=-782(F) 10=-98(B) 11=-782(F) 12=-782(F) 13=-245(B)



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2302105	Truss EJ04	Truss Type Jack-Partial	Qty 14	Ply 1	RandM Const. - Burks Res. Job Reference (optional)	T19835972
----------------	---------------	----------------------------	-----------	----------	---	-----------

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:54 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-7uRs9SIQ7?ZckPlyxUsxG0ex6o1frCzPyalkWpzVjbx

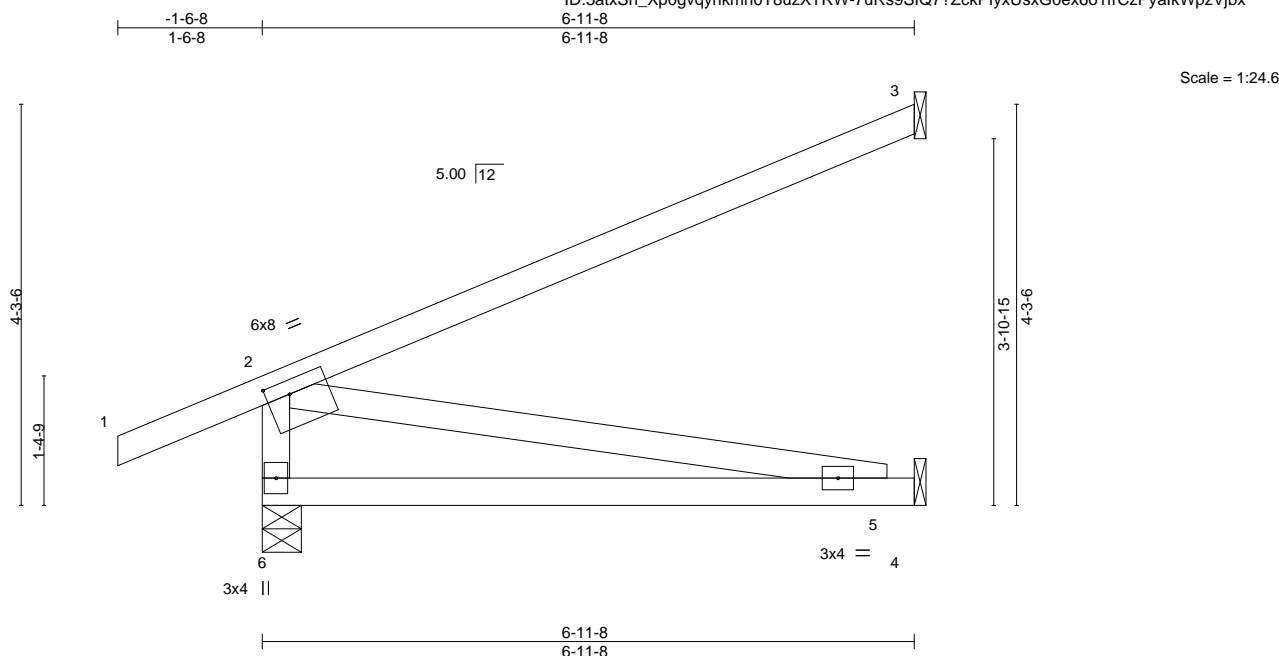


Plate Offsets (X,Y)--		[2:0-3-0,0-1-12]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL	1.25	TC 0.69		Vert(LL)	-0.09 5-6	>892	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.50		Vert(CT)	-0.18 5-6	>446	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.25		Horz(CT)	-0.01 3	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MS						Weight: 35 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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 8-7-8 oc bracing.

#### REACTIONS.

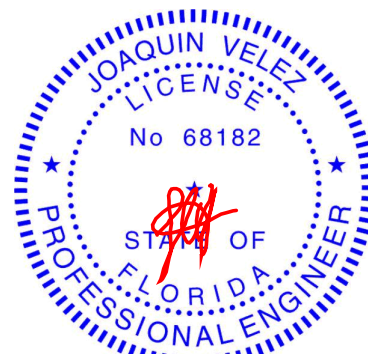
(size) 6=0-5-0, 3=Mechanical, 4=Mechanical  
Max Horz 6=108(LC 9)  
Max Uplift 6=68(LC 8), 3=85(LC 12), 4=14(LC 12)  
Max Grav 6=352(LC 1), 3=145(LC 1), 4=142(LC 3)

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

TOP CHORD 2-6=-275/273  
BOT CHORD 5-6=-464/286  
WEBS 2-5=-291/472

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3, 4.



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



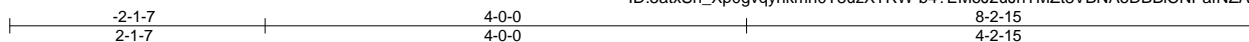
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835973
2302105	HJ09	Diagonal Hip Girder	1	1	Job Reference (optional)	

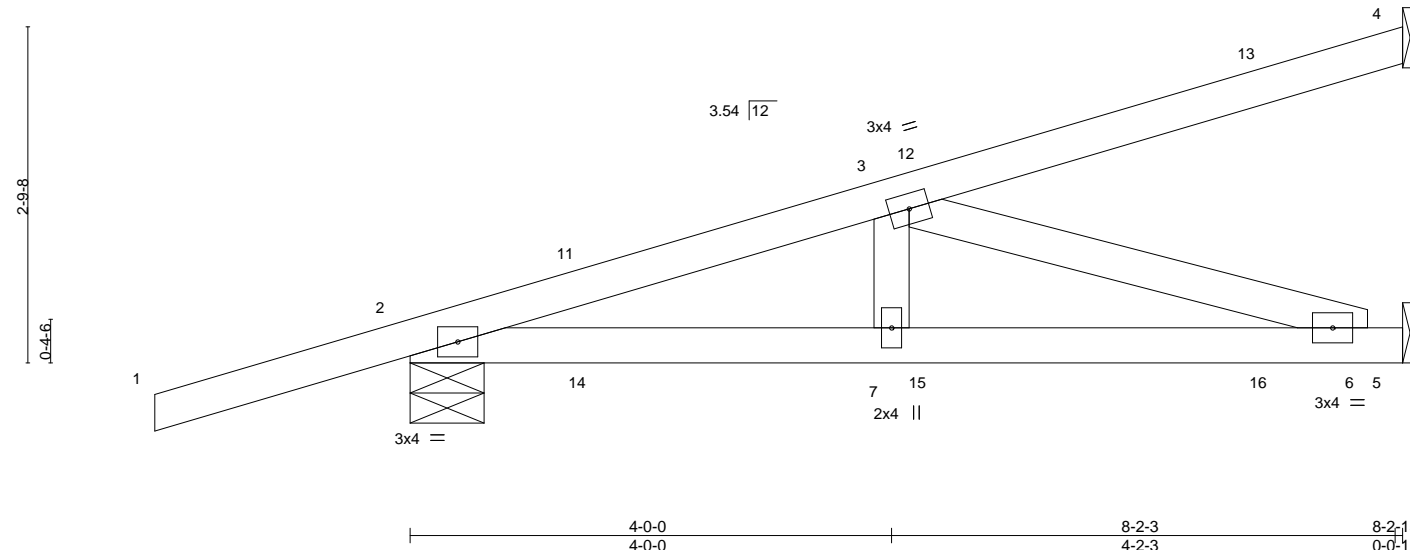
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:55 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-b4?EMoJ2uJhTMZt8VBNAoDBBiCNpafNZAE2I2FzVjbw



Scale = 1:19.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.38	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.06	6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.24	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 36 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-9-13 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical  
Max Horz 2=158(LC 22)  
Max Uplift 4=-140(LC 4), 2=-295(LC 4), 5=-112(LC 8)  
Max Grav 4=162(LC 1), 2=456(LC 1), 5=273(LC 3)

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

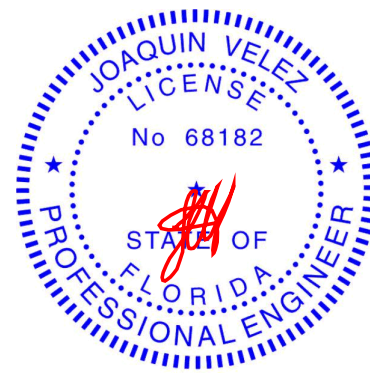
TOP CHORD 2-3=-669/279  
BOT CHORD 2-7=-353/623, 6-7=-353/623  
WEBS 3-6=-653/370

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=140, 2=295, 5=112.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 63 lb up at 1-6-1, 89 lb down and 63 lb up at 1-6-1, 27 lb down and 40 lb up at 4-4-0, 27 lb down and 40 lb up at 4-4-0, and 50 lb down and 94 lb up at 7-1-15, and 50 lb down and 94 lb up at 7-1-15 on top chord, and 33 lb down and 34 lb up at 1-6-1, 33 lb down and 34 lb up at 1-6-1, 21 lb down at 4-4-0, 21 lb down at 4-4-0, and 39 lb down and 19 lb up at 7-1-15, and 39 lb down and 19 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 5-8=-20  
Concentrated Loads (lb)  
Vert: 13=-93(F=-47, B=-47) 15=-8(F=-4, B=-4) 16=-67(F=-34, B=-34)



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



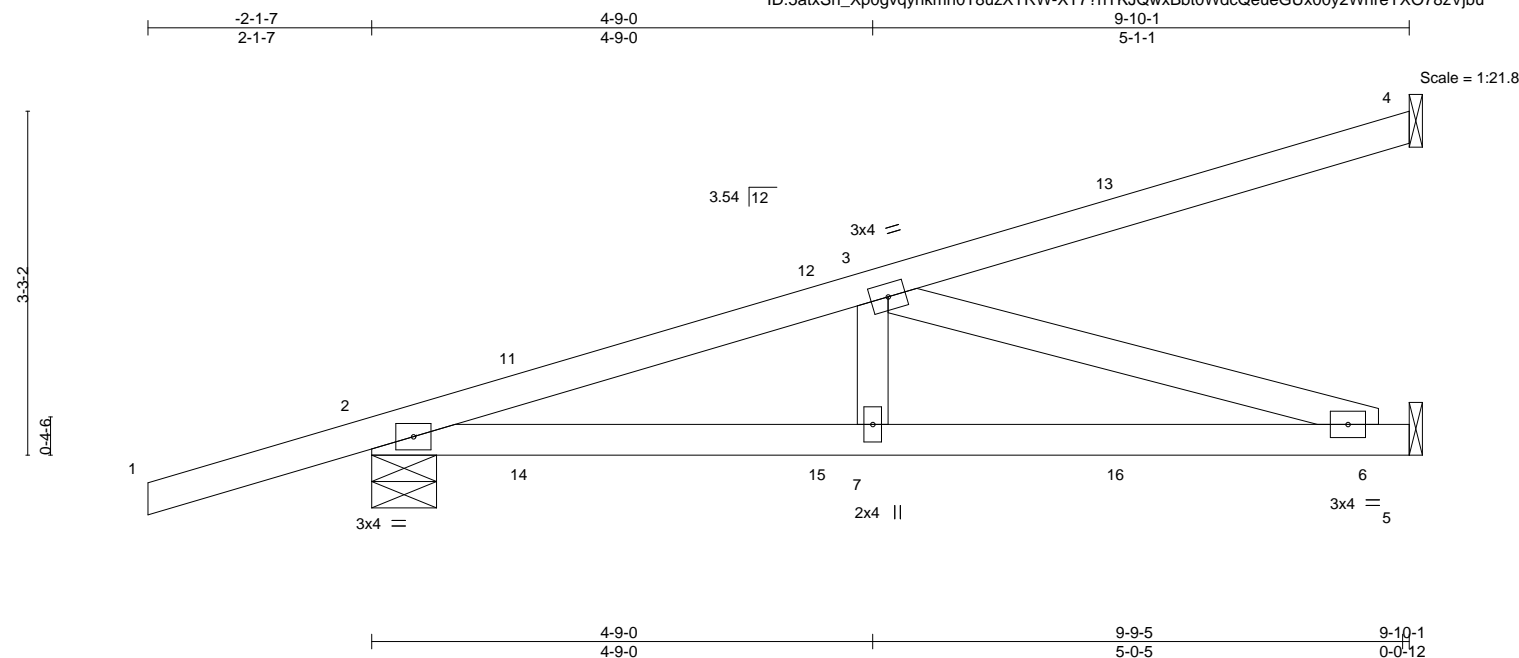
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835974
2302105	HJ10	Diagonal Hip Girder	3	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:57 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-XT7?nTKJQwxBbt0WdcQueeGUx00y2WhreYXO78zVjbu



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	Vert(LL)	0.06	6-7	>999	240	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.59	Vert(CT)	-0.11	6-7	>999	180	
BCLL 0.0 *	Lumber DOL 1.25	WB 0.45	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Rep Stress Incr NO	Matrix-MS						
	Code FBC2017/TPI2014							
							Weight: 42 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 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 8-5-7 oc bracing.

#### REACTIONS.

(size) 4=Mechanical, 2=0-7-6, 5=Mechanical  
Max Horz 2=181(LC 22)  
Max Uplift 4=-121(LC 4), 2=-329(LC 4), 5=-138(LC 8)  
Max Grav 4=142(LC 1), 2=528(LC 1), 5=307(LC 1)

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

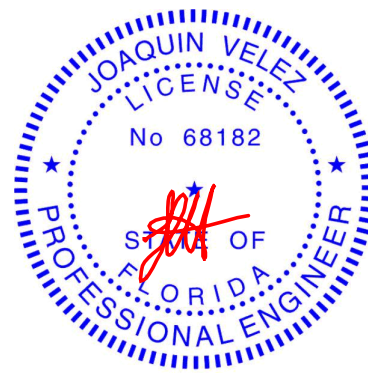
TOP CHORD 2-3=-886/388  
BOT CHORD 2-7=-477/828, 6-7=-477/828  
WEBS 3-7=0/277, 3-6=-866/498

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=121, 2=329, 5=138.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 63 lb up at 1-6-1, 89 lb down and 63 lb up at 1-6-1, 27 lb down and 40 lb up at 4-4-0, 27 lb down and 40 lb up at 4-4-0, and 50 lb down and 93 lb up at 7-1-15, and 50 lb down and 93 lb up at 7-1-15 on top chord, and 33 lb down and 34 lb up at 1-6-1, 33 lb down and 34 lb up at 1-6-1, 21 lb down at 4-4-0, 21 lb down at 4-4-0, and 35 lb down and 19 lb up at 7-1-15, and 35 lb down and 19 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 5-8=-20  
Concentrated Loads (lb)  
Vert: 13=-72(F=-36, B=-36) 15=-8(F=-4, B=-4) 16=-60(F=-30, B=-30)



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835975
2302105	HJ10A	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:58 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-0fhN\_pLxBE32D1bjAKxtQspdkQOrn?X?ICGyfzVjbt



Scale = 1:24.9

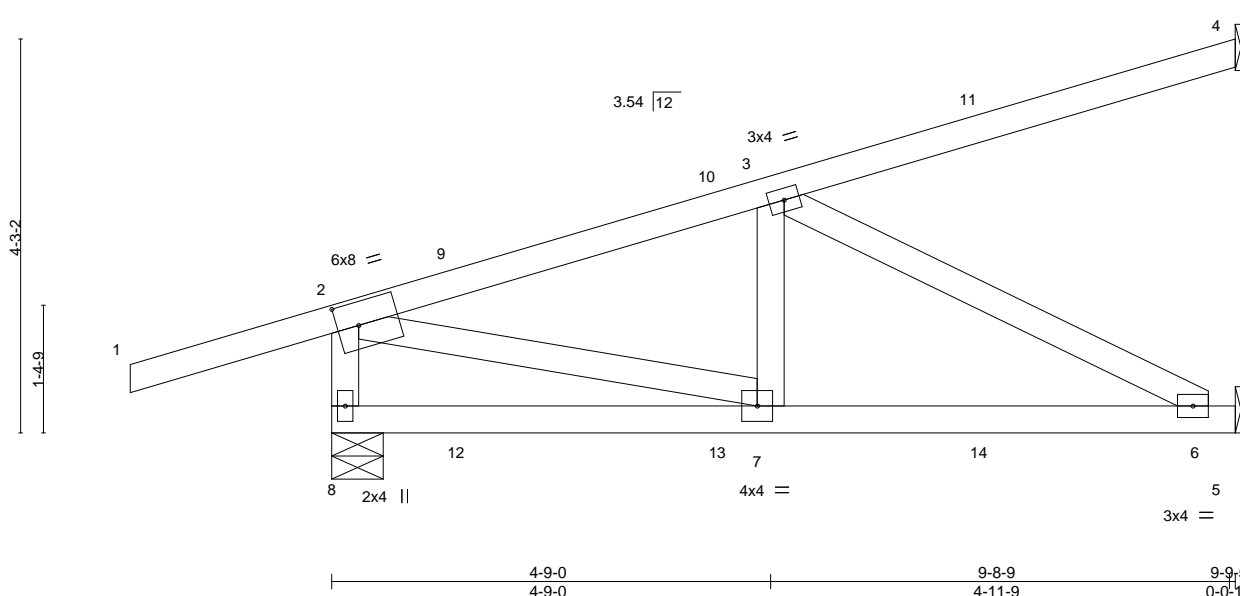


Plate Offsets (X,Y)--		[2:0-2-12,0-3-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 52 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 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

(size) 8=0-6-11, 4=Mechanical, 5=Mechanical  
Max Horz 8=159(LC 22)  
Max Uplift 8=-321(LC 4), 4=-132(LC 4), 5=-175(LC 8)  
Max Grav 8=463(LC 1), 4=138(LC 1), 5=272(LC 3)

#### FORCES.

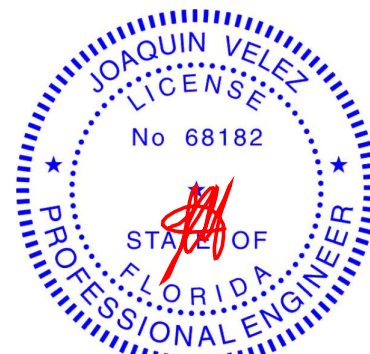
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-8=-433/287, 2-3=-467/301  
BOT CHORD 6-7=-359/432  
WEBS 2-7=-282/513, 3-6=-488/406

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=321, 4=132, 5=175.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 108 lb down and 134 lb up at 1-5-5, 108 lb down and 134 lb up at 1-5-5, 22 lb down and 51 lb up at 4-3-4, 22 lb down and 51 lb up at 4-3-4, and 44 lb down and 108 lb up at 7-1-3, and 44 lb down and 108 lb up at 7-1-3 on top chord, and 8 lb down and 53 lb up at 1-5-5, 8 lb down and 53 lb up at 1-5-5, 16 lb down and 14 lb up at 4-3-4, 16 lb down and 14 lb up at 4-3-4, and 32 lb down and 22 lb up at 7-1-3, and 32 lb down and 22 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S)

- Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-54, 2-4=-54, 5-8=-20  
Concentrated Loads (lb)  
Vert: 9=69(F=35, B=35) 11=68(F=-34, B=-34) 13=3(F=2, B=2) 14=-42(F=-21, B=-21)



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835976
2302105	T01	Scissor	11	1		
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:09:59 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-UrEIC9MzyYBurBAvk1S6z3L4pkNWHy85s0VB1zVjbs

-1-6-0	7-1-9	14-0-0	20-10-7	28-0-0	29-6-0
1-6-0	7-1-9	6-10-7	6-10-7	7-1-9	1-6-0

Scale = 1:57.4

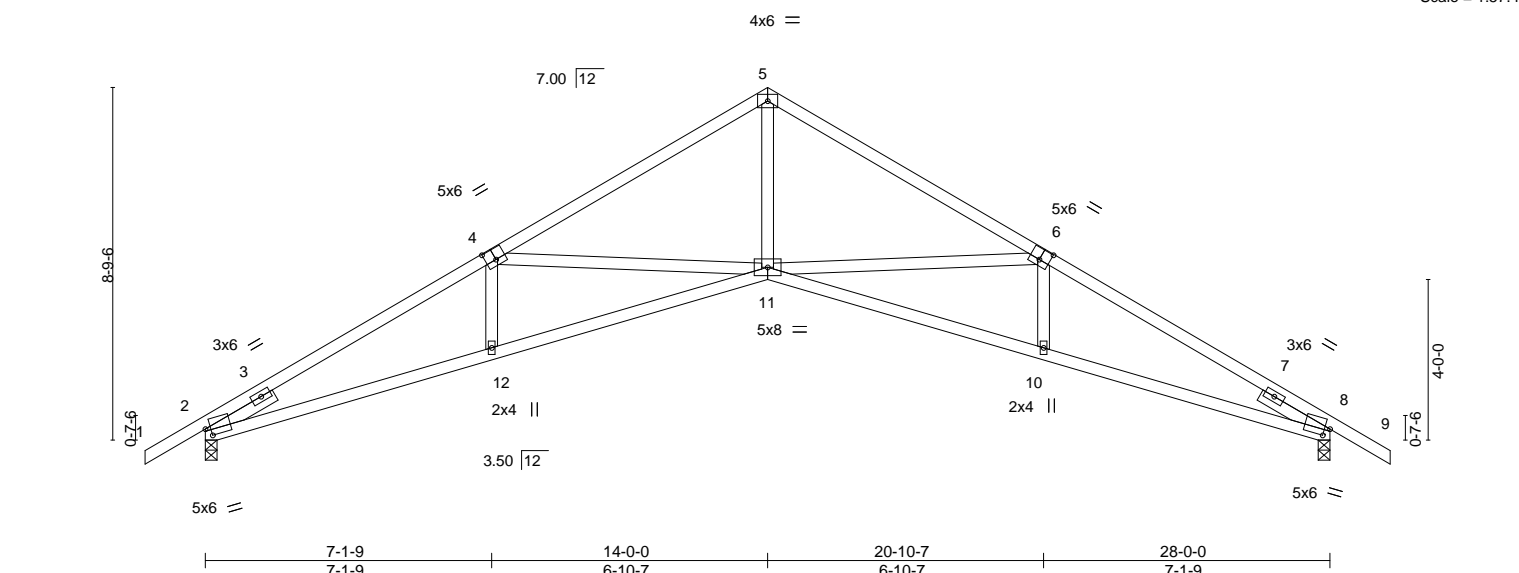


Plate Offsets (X,Y)--		[2:0-1-9,0-2-6], [4:0-3-0,0-3-4], [6:0-3-0,0-3-4], [8:0-1-9,0-2-6]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	0.54 11-12	>619	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	0.46 11-12	>734	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	-0.32 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 136 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
1-4,6-9: 2x4 SP M 31  
BOT CHORD 2x4 SP M 31  
WEBS 2x4 SP No.3  
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 3-9-11 oc bracing.

#### REACTIONS.

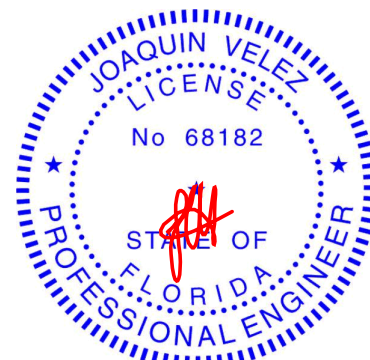
(size) 2=0-3-8, 8=0-3-8  
Max Horz 2=282(LC 11)  
Max Uplift 2=429(LC 12), 8=429(LC 13)  
Max Grav 2=1117(LC 1), 8=1117(LC 1)

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

TOP CHORD 2-4=-2706/4089, 4-5=-2012/2780, 5-6=-2012/2780, 6-8=-2706/4100  
BOT CHORD 2-12=-3390/2358, 11-12=-3222/2377, 10-11=-3233/2377, 8-10=-3402/2358  
WEBS 5-11=-2523/1564, 6-11=-679/1292, 6-10=-544/238, 4-11=-686/1295, 4-12=-545/238

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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) 2, 8 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) except (jt=lb) 2=429, 8=429.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



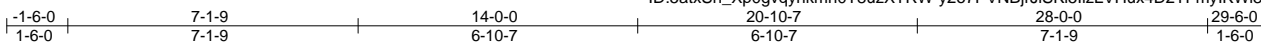
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835977
2302105	T01G	GABLE	2	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:00 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-y2o7PVNBjrJlSKl5IlzLVHux4D2TFmyIKWl3jTzVjbr



Scale = 1:56.6

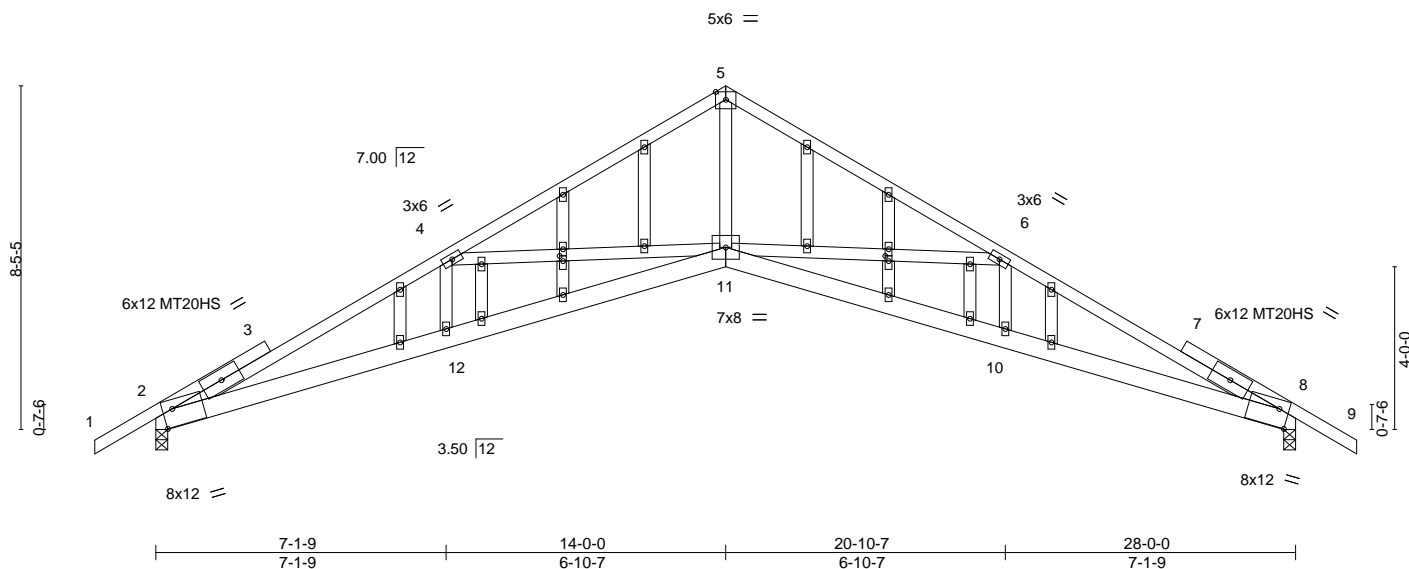


Plate Offsets (X,Y)-- [2:0-2-14,0-5-5], [8:0-2-14,0-5-5], [15:0-1-8,0-1-0], [26:0-1-8,0-1-0]															
<b>LOADING</b> (psf)		<b>SPACING-</b>		2-0-0		<b>CSI.</b>		<b>DEFL.</b>		in (loc) l/defl L/d		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL		1.25		TC 0.78		Vert(LL)		0.59 11-12 >561 240		MT20		244/190	
TCDL	7.0	Lumber DOL		1.25		BC 0.60		Vert(CT)		0.50 11-12 >669 180		MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr		YES		WB 0.86		Horz(CT)		-0.39 8 n/a n/a					
BCDL	10.0	Code FBC2017/TPI2014				Matrix-MS						Weight: 183 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP M 31  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3  
OTHERS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 3-3-3 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 8=0-3-8  
Max Horz 2=-271(LC 10)  
Max Uplift 2=-433(LC 12), 8=-433(LC 13)  
Max Grav 2=1114(LC 1), 8=1114(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-3044/4661, 4-5=-2175/3000, 5-6=-2175/3000, 6-8=-3044/4679  
BOT CHORD 2-12=-3998/2747, 11-12=-3849/2773, 10-11=-3866/2773, 8-10=-4017/2747  
WEBS 5-11=-2778/1750, 4-12=-504/219, 6-10=-503/219, 4-11=-889/1691, 6-11=-886/1689

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- All plates are MT20 plates unless otherwise indicated.
- 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.
- Bearing at joint(s) 2, 8 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) except (jt=lb) 2=433, 8=433.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



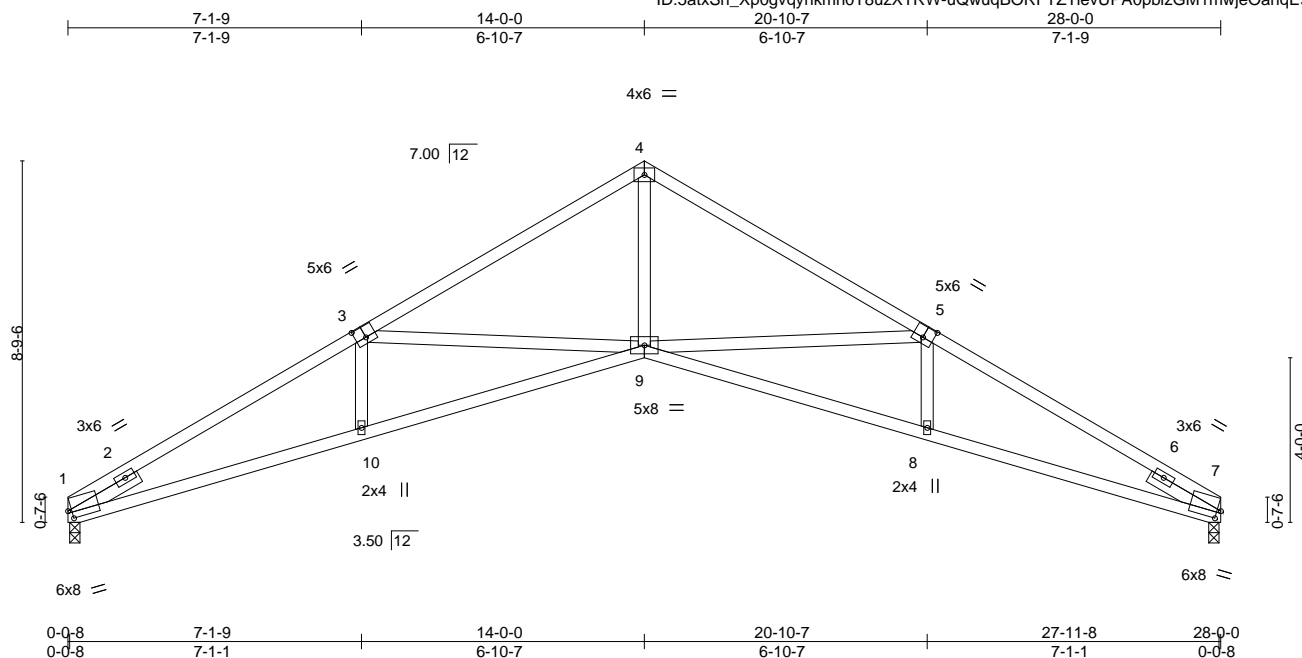
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835978
2302105	T02	Scissor	6	1		
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:02 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-uQwuqBORFTZTievUPA0pbizGM1mwjeOanqE9oLzVjbp



Scale = 1:56.0

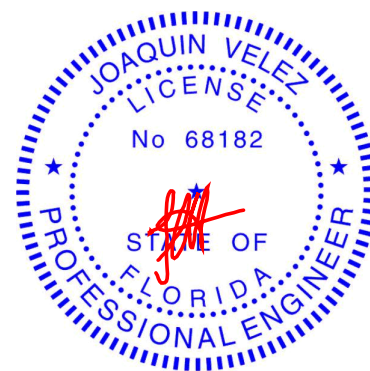
Plate Offsets (X,Y)--		[1:0-1-1,0-2-8], [3:0-3-0,0-3-4], [5:0-3-0,0-3-4], [7:0-1-1,0-2-8]			
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	in (loc) l/defl L/d	MT20 244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.47	Vert(LL) 0.54 8-9 >618 240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.99	Vert(CT) 0.46 8-9 >732 180	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Horz(CT) -0.32 7 n/a n/a	
				Weight: 131 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied.
1-3,5-7: 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 3-9-0 oc bracing.
BOT CHORD 2x4 SP M 31	
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8	

**REACTIONS.** (size) 1=0-3-0, 7=0-3-0  
Max Horz 1=203(LC 11)  
Max Uplift 1=335(LC 9), 7=335(LC 8)  
Max Grav 1=1036(LC 1), 7=1036(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-2739/4156, 3-4=-2027/2830, 4-5=-2027/2830, 5-7=-2739/4156  
BOT CHORD 1-10=-3489/2390, 9-10=-3319/2408, 8-9=-3319/2408, 7-8=-3489/2390  
WEBS 4-9=-2575/1581, 5-9=-691/1298, 5-8=-546/240, 3-9=-691/1298, 3-10=-546/240

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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
  - 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) 1, 7 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) except (jt=lb) 1=335, 7=335.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



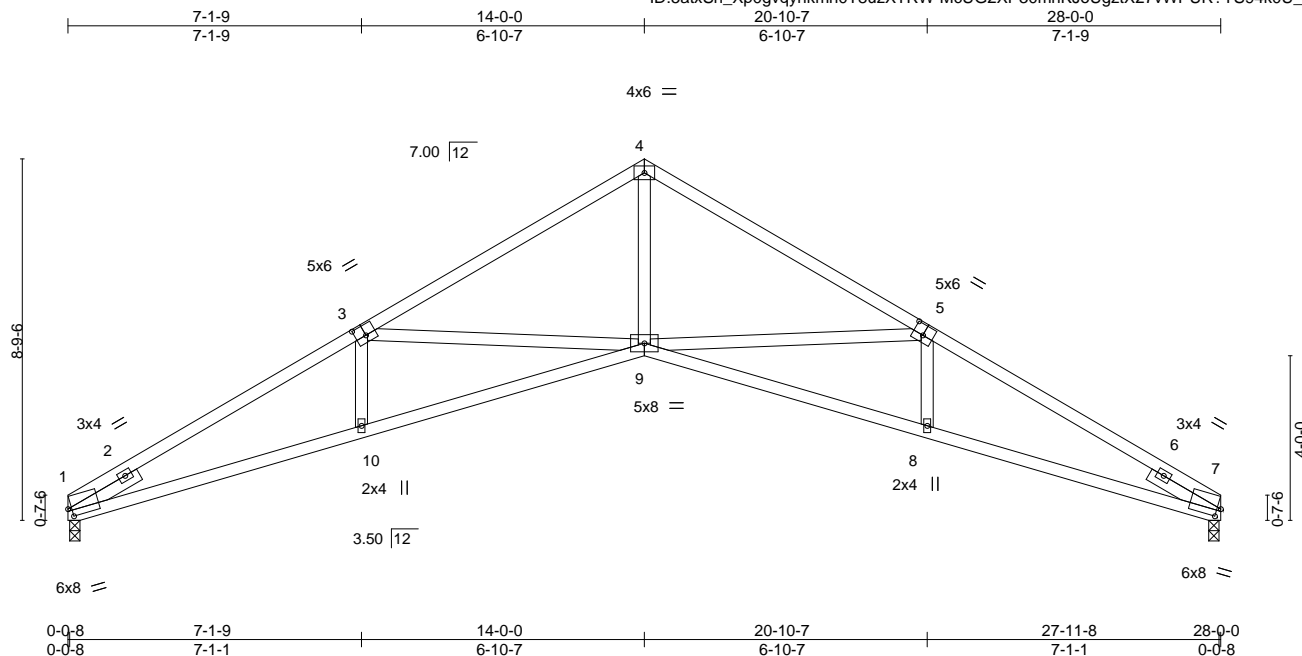
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835979
2302105	T03	Scissor	14	1		
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:03 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-McUG2XP30mhKJoUgztX27vWPUR?YS94k0U\_jKozVjbo



Scale = 1:56.0

Plate Offsets (X, Y)--		[1:0-1-1,0-2-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [7:0-1-1,0-2-8]
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	YES
BCDL 10.0	Code FBC2017/TPI2014	
<b>CSL</b>	<b>DEFL.</b>	in (loc) l/defl L/d
TC 0.90	Vert(LL)	-0.25 9-10 >999 240
BC 0.89	Vert(CT)	-0.51 9-10 >654 180
WB 0.71	Horz(CT)	0.36 7 n/a n/a
Matrix-MS		
<b>PLATES</b>	<b>GRIP</b>	
MT20	244/190	
Weight: 131 lb		FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied or 6-2-10 oc bracing.

#### REACTIONS.

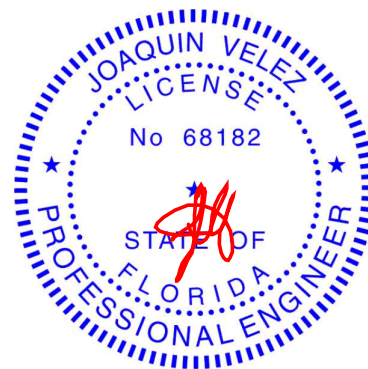
(size) 1=0-3-0, 7=0-3-0  
 Max Horz 1=-203(LC 8)  
 Max Uplift 1=-213(LC 12), 7=-213(LC 13)  
 Max Grav 1=1036(LC 1), 7=1036(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2734/1126, 3-4=-2027/782, 4-5=-2027/782, 5-7=-2734/1126  
 BOT CHORD 1-10=-894/2431, 9-10=-898/2446, 8-9=-898/2402, 7-8=-894/2385  
 WEBS 4-9=-534/1576, 5-9=-781/482, 3-9=-781/482

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 1, 7 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) except (jt=lb) 1=213, 7=213.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835980
2302105	T05	Hip Girder	1	1		
Job Reference (optional)						

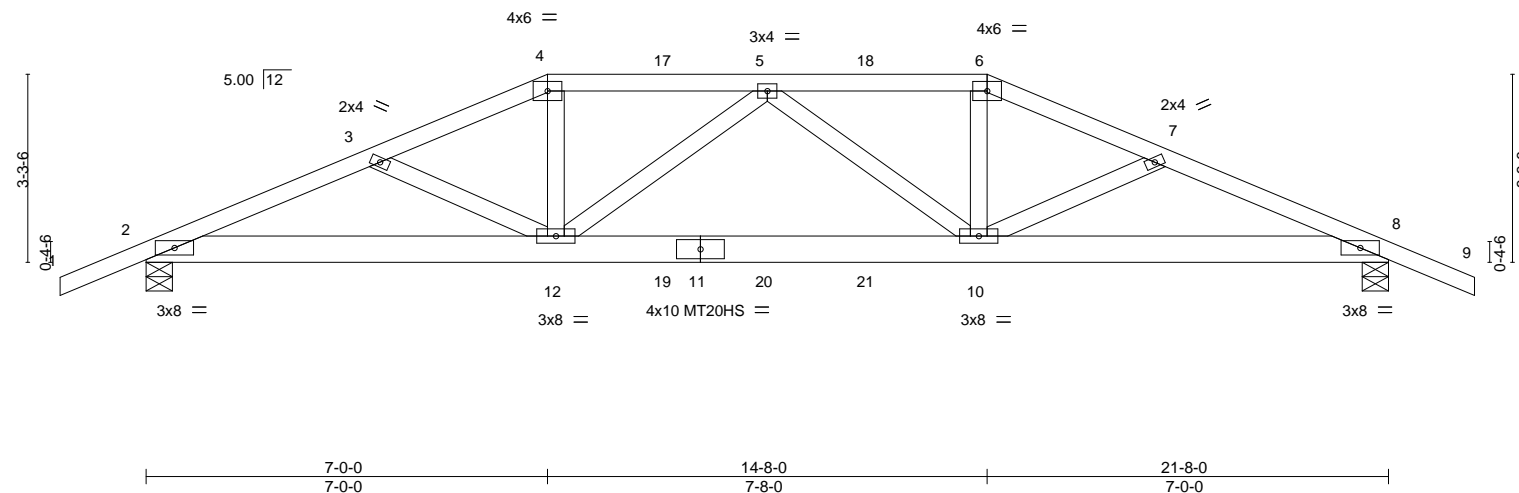
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:05 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-J?c0SCRKY0x2Z6e35IZWCKbsyEhMw9v1UoTpPgZVjbm

-1-6-0	4-0-15	7-0-0	10-10-0	14-8-0	17-7-1	21-8-0	23-2-0
1-6-0	4-0-15	2-11-1	3-10-0	3-10-0	2-11-1	4-0-15	1-6-0

Scale = 1:40.2



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.16 10-12 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.33 10-12 >780 180	MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.08 8 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 120 lb FT = 20%			

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-1 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

#### REACTIONS.

(size) 2=0-5-8, 8=0-5-8  
Max Horz 2=-44(LC 28)  
Max Uplift 2=-496(LC 8), 8=-526(LC 9)  
Max Grav 2=1617(LC 1), 8=1641(LC 1)

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

TOP CHORD 2-3=-3572/1113, 3-4=-3389/1057, 4-5=-3155/1001, 5-6=-3208/1074, 6-7=-3448/1139, 7-8=-3631/1190  
BOT CHORD 2-12=-1015/3265, 10-12=-1109/3486, 8-10=-1042/3320  
WEBS 4-12=-246/963, 5-12=-486/254, 5-10=-404/162, 6-10=-187/921

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) 2=496, 8=526.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 94 lb up at 7-0-0, 109 lb down and 94 lb up at 9-0-12, 109 lb down and 94 lb up at 10-10-0, and 109 lb down and 94 lb up at 12-7-4, and 222 lb down and 223 lb up at 14-8-0 on top chord, and 343 lb down and 164 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 10-10-0, and 85 lb down at 12-7-4, and 343 lb down and 164 lb up at 14-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

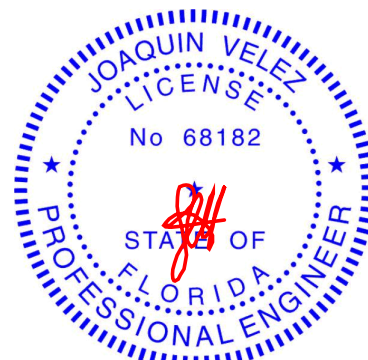
- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 6-9=-54, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 6=-175(F) 12=-343(F) 5=-109(F) 10=-343(F) 17=-109(F) 18=-109(F) 19=-65(F) 20=-65(F) 21=-65(F)



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

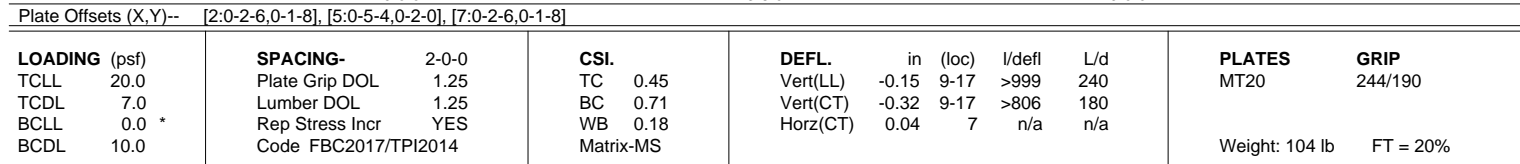
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610



Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:06 2020 Page 1  
ID:5atxSn\_Xp0gvyqhkmn0T8uzXTRW-nB9PgYRyJh3vAFCFe?4lYI82re31ff2AiSCNx7zVjbl  
-1-6-0 4-7-9 9-0-0 12-8-0 17-0-7 21-8-0 23-2-0  
1-6-0 4-7-9 4-4-7 3-8-0 4-4-7 4-7-9 1-6-0  
Scale = 1:40.2



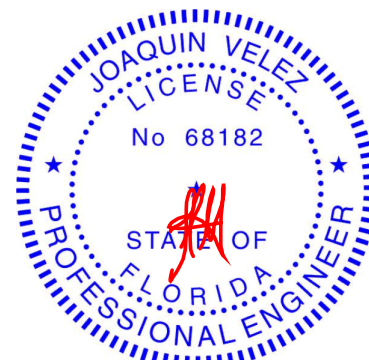
**REACTIONS.** (size) 2=0-5-8, 7=0-5-8  
 Max Horz 2=55(LC 12)  
 Max Uplift 2=-189(LC 12), 7=-189(LC 13)  
 Max Grav 2=883(LC 1), 7=883(LC 1)

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

TOP CHORD	2-3=-1591/872, 3-4=-1260/663, 4-5=-1124/657, 5-6=-1260/663, 6-7=-1591/871
BOT CHORD	2-11=-696/1452, 9-11=-426/1123, 7-9=-713/1452
WEBS	3-11=-368/314, 4-11=-81/309, 5-9=-85/309, 6-9=-369/314

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189. 7=189.



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

March 30, 2020



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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

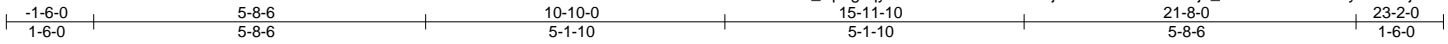


Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835982
2302105	T07	Common	3	1	Job Reference (optional)	

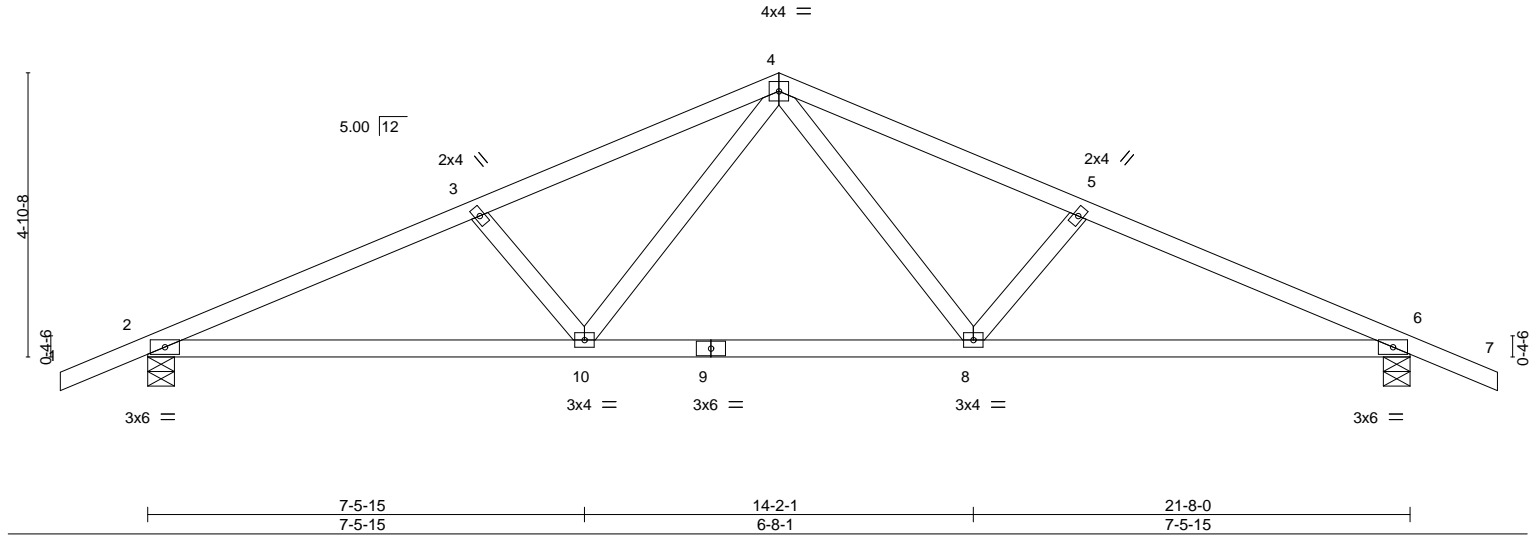
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:07 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-F0jntuSa4?CmoPnRCjb\_IlhEJ2SkO6EKx6ywTzZVjbk



Scale = 1:39.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.07 10-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.17 10-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.04 6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 97 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 4-5-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-1-9 oc bracing.

#### REACTIONS.

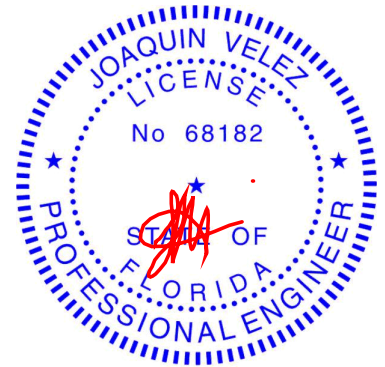
(size) 2=0-5-8, 6=0-5-8  
Max Horz 2=-64(LC 17)  
Max Uplift 2=-200(LC 12), 6=-200(LC 13)  
Max Grav 2=883(LC 1), 6=883(LC 1)

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

TOP CHORD 2-3=-1561/845, 3-4=-1385/783, 4-5=-1385/782, 5-6=-1561/845  
BOT CHORD 2-10=-666/1411, 8-10=-356/944, 6-8=-679/1411  
WEBS 4-8=-239/486, 5-8=-313/292, 4-10=-239/486, 3-10=-313/292

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 2=200, 6=200.



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

March 30,2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835983
2302105	T08	Common	3	1		

Builders FirstSource, Jacksonville, FL - 32244,

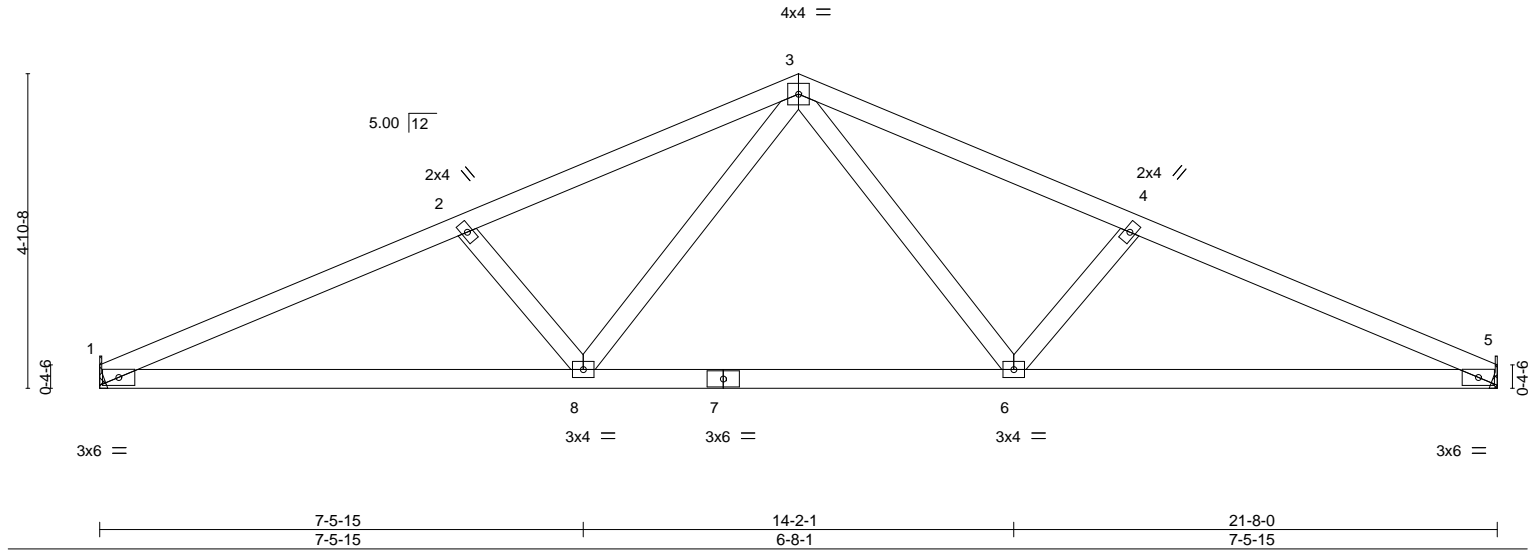
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:08 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-jaH95ETCqJKdQZMemQ6DqzDPoSot7ZOTAmhU??zVbj

Job Reference (optional)

5-8-6	10-10-0	15-11-10	21-8-0
5-8-6	5-1-10	5-1-10	5-8-6

Scale = 1:35.7



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	-0.07 8-11 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.17 8-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.04 5 n/a n/a				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 92 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 4-4-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-9-6 oc bracing.

#### REACTIONS.

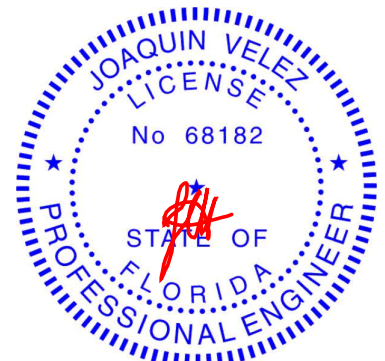
(size) 1=Mechanical, 5=Mechanical  
Max Horz 1=56(LC 16)  
Max Uplift 1=-171(LC 12), 5=-171(LC 13)  
Max Grav 1=802(LC 1), 5=802(LC 1)

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

TOP CHORD 1-2=-1588/873, 2-3=-1410/808, 3-4=-1410/808, 4-5=-1589/873  
BOT CHORD 1-8=-736/1439, 6-8=-402/958, 5-6=-736/1439  
WEBS 3-6=-249/502, 4-6=-323/301, 3-8=-249/502, 2-8=-323/301

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=171, 5=171.



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

March 30, 2020

#### WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2302105	Truss T09	Truss Type Hip Girder	Qty 1	Ply 2	RandM Const. - Burks Res. Job Reference (optional)	T19835984
----------------	--------------	--------------------------	----------	----------	---	-----------

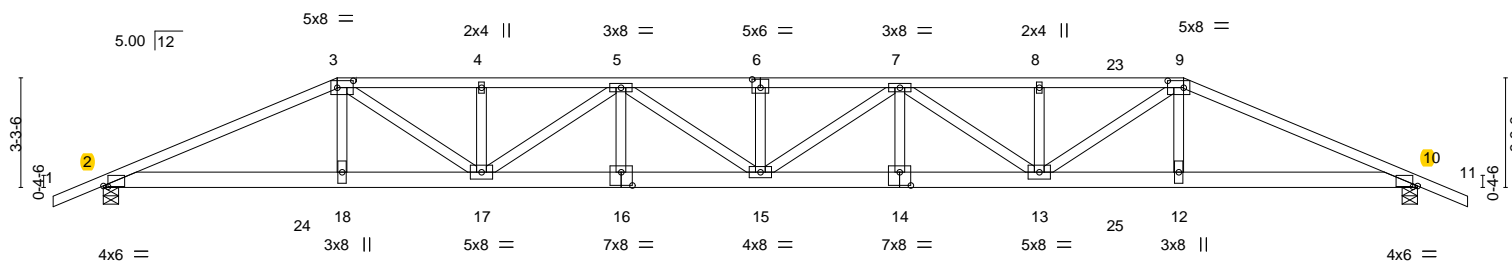
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:11 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-79zljGV57EIBH15DRYgwSbrngfivKnrsvkw8cKzVjbg

1-6-0	7-0-0	11-3-13	15-5-15	19-8-0	23-10-1	28-0-3	32-4-0	39-4-0	40-10-0
1-6-0	7-0-0	4-3-13	4-2-1	4-2-1	4-2-1	4-2-1	4-3-13	7-0-0	1-6-0

Scale = 1:69.0



	7-0-0	11-3-13	15-5-15	19-8-0	23-10-1	28-0-3	32-4-0	39-4-0	
	7-0-0	4-3-13	4-2-1	4-2-1	4-2-1	4-2-1	4-3-13	7-0-0	
Plate Offsets (X,Y)--	[2:0-1-11,0-0-4], [3:0-5-12,0-2-8], [6:0-3-0,0-3-0], [9:0-5-12,0-2-8], [10:0-1-11,0-0-4], [14:0-4-0,0-4-12], [16:0-4-0,0-4-12]								

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.95	Vert(LL)	-0.50	15	>949	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.99	Vert(CT)	-0.91	15	>517	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.14	10	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
Weight: 450 lb									FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP M 26 \*Except\*  
14-16: 2x6 SP No.2  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

#### REACTIONS.

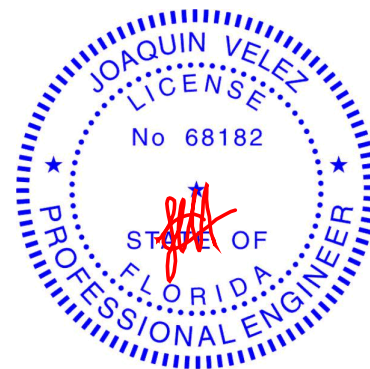
(size) 2=0-5-8, 10=0-5-8  
Max Horz 2=44(LC 28)  
Max Uplift 2=992(LC 4), 10=990(LC 5)  
Max Grav 2=3440(LC 1), 10=3378(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-7759/2247, 3-4=-8334/2412, 4-5=-8334/2412, 5-6=-10204/2927, 6-7=-10204/2927,  
7-8=-10164/2944, 8-9=-10164/2944, 9-10=-8017/2373  
BOT CHORD 2-18=-1998/7115, 17-18=-2026/7211, 16-17=-2684/9640, 15-16=-2684/9641,  
14-15=-2945/10537, 13-14=-2945/10536, 12-13=-2132/7371, 10-12=-2125/7337  
WEBS 3-18=-573/1921, 3-17=-356/1451, 5-17=-1618/443, 5-16=-32/298, 5-15=-191/732,  
7-15=-445/373, 7-14=-26/278, 7-13=-864/485, 8-13=-389/202, 9-13=-886/3450,  
9-12=-142/722

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl.,  
GCpi=0.18; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=992, 10=990.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 94 lb up at 28-3-4, and 109 lb down and 94 lb up at 30-3-4, and 222 lb down and 223 lb up at 32-4-0 on top chord, and 1588 lb down and 547 lb up at 5-11-4, 1290 lb down and 348 lb up at 27-8-12, 85 lb down at 28-3-4, and 85 lb down at 30-3-4, and 343 lb down and 164 lb up at 32-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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

March 30,2020

#### LOAD CASE(S)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835984
2302105	T09	Hip Girder	1	2	Job Reference (optional)	

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-9=-54, 9-11=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 9=-175(F) 8=-109(F) 13=-1355(F) 12=-343(F) 23=-109(F) 24=-1588(F) 25=-65(F)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835985
2302105	T10	Hip	1	1		
Job Reference (optional)						

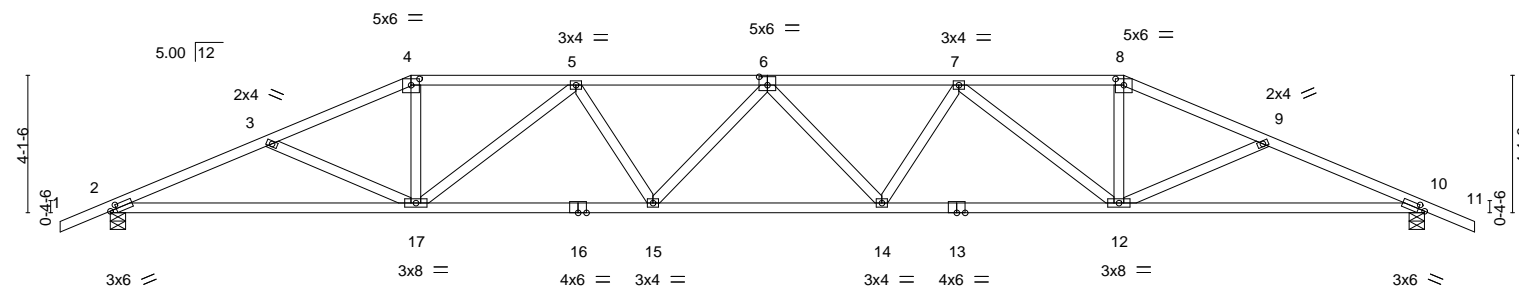
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:13 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-4Y528yXLfryvWKfbZziOX0wEsTPvog\_CJ2PFhDzVjbe

1-6-0	4-10-1	9-0-0	13-11-4	19-8-0	25-4-12	30-4-0	34-5-15	39-4-0	40-10-0
1-6-0	4-10-1	4-1-15	4-11-4	5-8-12	5-8-12	4-11-4	4-1-15	4-10-1	1-6-0

Scale = 1:69.0



	9-0-0	16-2-14	23-1-2	30-4-0	39-4-0
	9-0-0	7-2-14	6-10-3	7-2-14	9-0-0
Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [4:0-3-0,0-2-4], [6:0-3-0,0-3-0], [8:0-3-0,0-2-4], [10:0-2-6,0-1-8]				

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 0.46	Vert(LL)	-0.37 14-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.72 14-15	>657	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.20 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 193 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 2-9-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

#### REACTIONS.

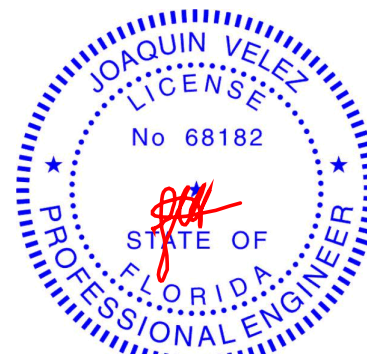
(size) 2=0-5-8, 10=0-5-8  
Max Horz 2=55(LC 16)  
Max Uplift 2=351(LC 8), 10=351(LC 9)  
Max Grav 2=1536(LC 1), 10=1536(LC 1)

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

TOP CHORD 2-3=-3222/1644, 3-4=-2929/1463, 4-5=-2693/1406, 5-6=-3609/1840, 6-7=-3609/1840, 7-8=-2693/1406, 8-9=-2929/1463, 9-10=-3222/1644  
BOT CHORD 2-17=-1399/2937, 15-17=-1557/3433, 14-15=-1716/3750, 12-14=-1561/3433, 10-12=-1419/2937  
WEBS 3-17=-306/284, 4-17=-374/878, 5-17=-1018/499, 5-15=-97/386, 6-15=-264/164, 6-14=-264/164, 7-14=-97/386, 7-12=-1018/499, 8-12=-374/878, 9-12=-306/284

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=351, 10=351.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835986
2302105	T11	ATTIC	1	1		
Job Reference (optional)						

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:14 2020 Page 1

ID:5atxSn\_Xp0gvyqhkmn0T8uzXTRW-YkeQLHYzQ94m8Uqo6hDd4ETP5ssQXAJMYi8oDfzVjbd

1-6-0	6-0-15	11-0-0	15-6-4	19-8-0	23-9-12	28-4-0	33-3-1	39-4-0	40-10-0
1-6-0	6-0-15	4-11-1	4-6-4	4-1-12	4-1-12	4-6-4	4-11-1	6-0-15	1-6-0

Scale = 1:69.0

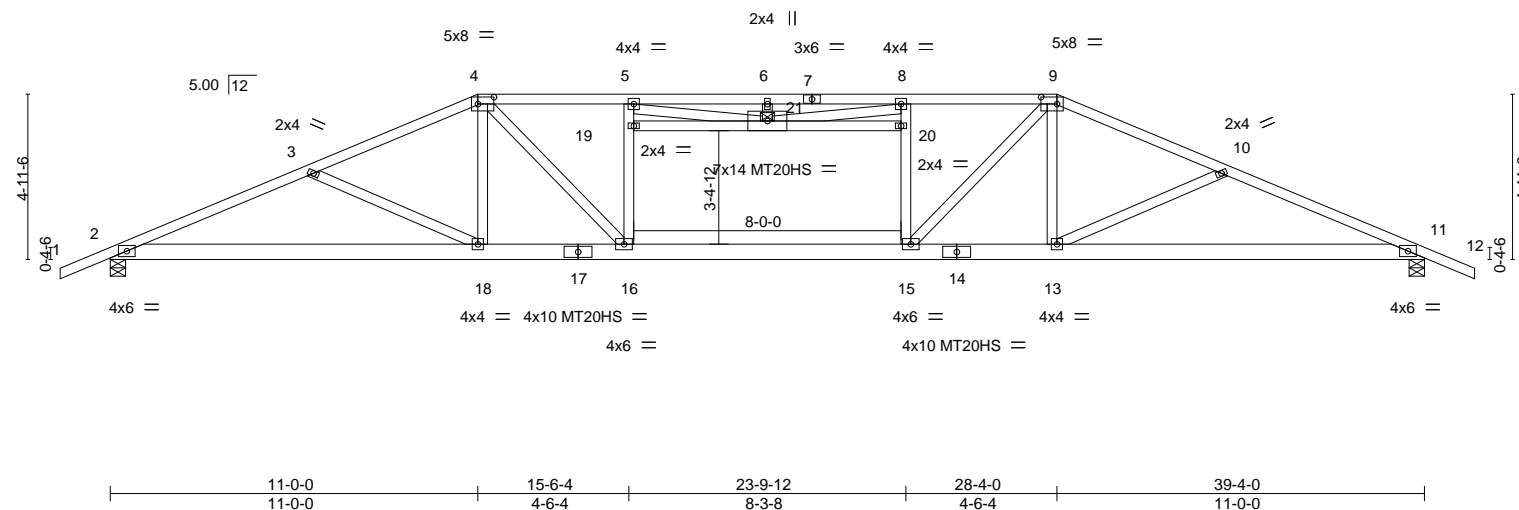


Plate Offsets (X, Y)--		[4:0-5-12,0-2-8], [9:0-5-12,0-2-8]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	-0.36 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.68 15-16	>699	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.11 11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.09 15-16	1092	360		
				Weight: 241 lb		FT = 20%			

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP M 26  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.  
WEBS 1 Row at midpt 19-20

#### REACTIONS.

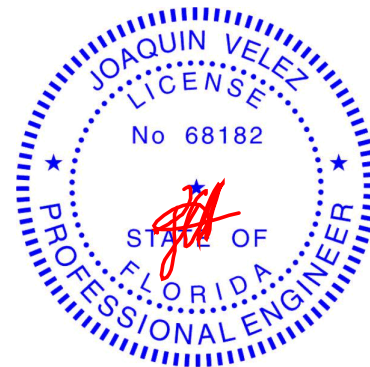
(size) 2=0-5-8, 11=0-5-8  
Max Horz 2=65(LC 13)  
Max Uplift 2=220(LC 8), 11=220(LC 9)  
Max Grav 2=1736(LC 2), 11=1736(LC 2)

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

TOP CHORD 2-3=-3805/1382, 3-4=-3505/1142, 4-5=-4076/1208, 5-6=-4156/1366, 6-8=-4156/1366,  
8-9=-4076/1208, 9-10=-3505/1142, 10-11=-3805/1382  
BOT CHORD 2-18=-1155/3491, 16-18=-818/3197, 15-16=-939/4097, 13-15=-826/3197,  
11-13=-1167/3491  
WEBS 3-18=-404/380, 4-18=-145/459, 4-16=-161/1376, 16-19=-482/251, 5-19=-409/251,  
15-20=-482/251, 8-20=-409/251, 9-15=-161/1376, 9-13=-145/459, 10-13=-404/380,  
5-21=-197/399, 8-21=-197/399

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 19-21, 20-21; Wall dead load (5.0psf) on member(s).16-19, 15-20
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=220, 11=220.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835987
2302105	T12	ATTIC	1	1	Job Reference (optional)	

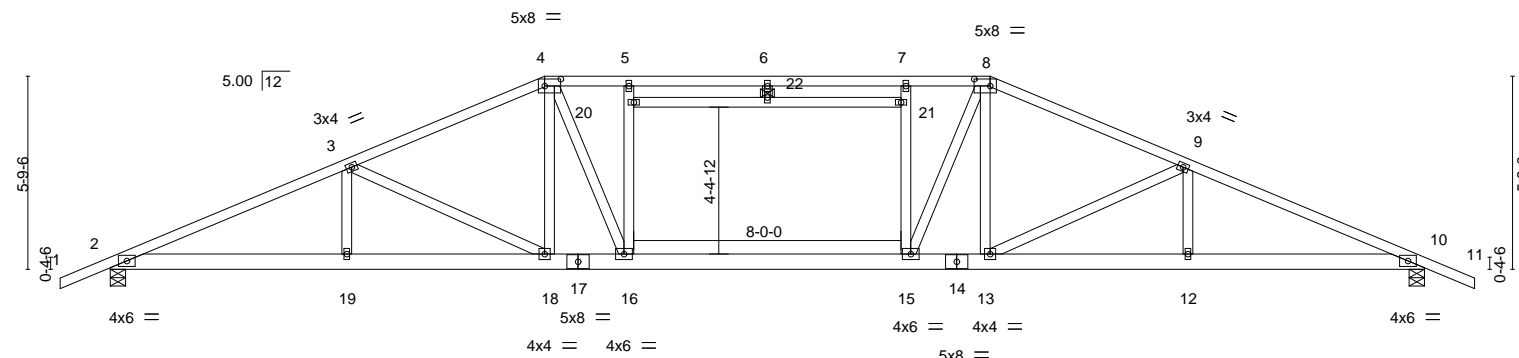
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:16 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-U7mAmzZDymKUNozAE6G59fYlgY\_?2se00dvlXzVjbb

1-6-0	7-0-15	13-0-0	15-6-4	19-8-0	23-9-12	26-4-0	32-3-1	39-4-0	40-10-0
1-6-0	7-0-15	5-11-1	2-6-4	4-1-12	4-1-12	2-6-4	5-11-1	7-0-15	1-6-0

Scale = 1:69.0



	7-0-15	13-0-0	15-6-4	23-9-12	26-4-0	32-3-1	39-4-0
	7-0-15	5-11-1	2-6-4	8-3-8	2-6-4	5-11-1	7-0-15
Plate Offsets (X, Y)--	[4:0-5-12,0-2-8], [8:0-5-12,0-2-8]						

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.67	Vert(LL)	-0.30 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.57 15-16	>829	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.10 15-16	1031	360	Weight: 244 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x6 SP M 26  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-3-6 oc bracing.  
WEBS 1 Row at midpt 20-21

#### REACTIONS.

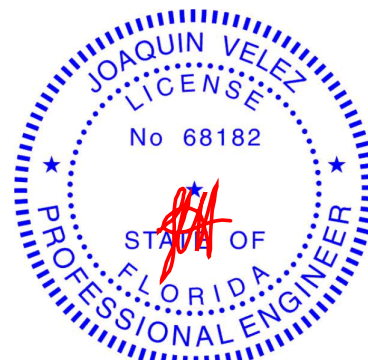
(size) 2=0-5-8, 10=0-5-8  
Max Horz 2=-75(LC 13)  
Max Uplift 2=-192(LC 8), 10=-192(LC 9)  
Max Grav 2=1746(LC 2), 10=1746(LC 2)

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

TOP CHORD 2-3=-3889/1329, 3-4=-3341/1056, 4-5=-3499/1058, 5-6=-3385/1023, 6-7=-3385/1023,  
7-8=-3499/1058, 8-9=-3341/1056, 9-10=-3889/1329  
BOT CHORD 2-19=-1088/3547, 18-19=-1088/3547, 16-18=-705/3034, 15-16=-742/3514,  
13-15=-708/3034, 12-13=-1104/3547, 10-12=-1104/3547  
WEBS 3-19=0/295, 3-18=-665/445, 4-18=-207/460, 4-16=-76/1314, 16-20=-501/231,  
5-20=-402/219, 15-21=-501/231, 7-21=-402/219, 8-15=-76/1314, 8-13=-207/460,  
9-13=-665/445, 9-12=0/295

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22; Wall dead load (5.0psf) on member(s). 16-20, 15-21
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=192, 10=192.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835988
2302105	T13	Attic	1	1		

Builders FirstSource, Jacksonville, FL - 32244,

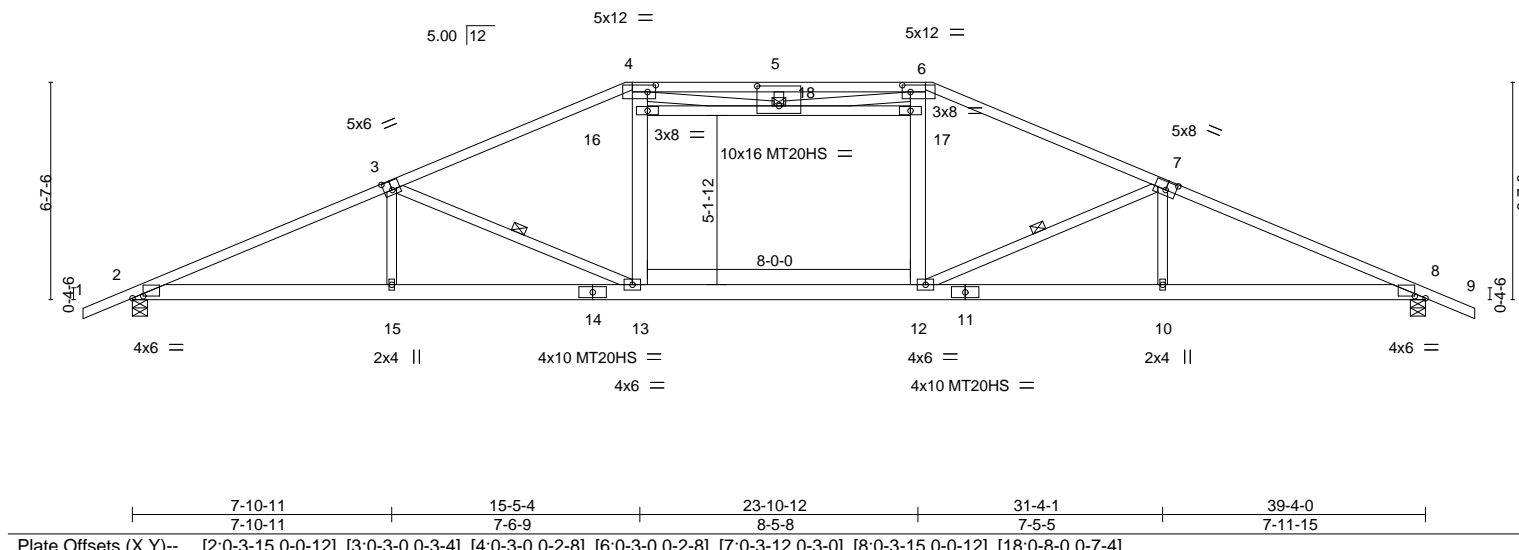
8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:17 2020 Page 1

ID:5atxSn\_Xp0gvyhkmn0T8uzXTRW-yJKZ\_Jarj4SL?yYMopnKis5tO4utkWaoEfNSq\_zVjba

Job Reference (optional)

1-6-0	7-10-11	15-0-0	15-5-4	19-8-0	23-10-12	24-4-0	31-4-1	39-4-0	40-10-0
1-6-0	7-10-11	7-1-5	0-5-4	4-2-12	4-2-12	0-5-4	7-0-1	7-11-15	1-6-0

Scale = 1:70.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.68	Vert(LL)	-0.29 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.55 12-13	>866	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.10 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.12 12-13	849	360		
								Weight: 242 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
3-4,6-7: 2x4 SP M 31  
BOT CHORD 2x6 SP M 26  
WEBS 2x4 SP No.3 \*Except\*  
4-13,6-12: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-3-13 oc bracing.  
WEBS 1 Row at midpt 3-13, 7-12, 16-17

#### REACTIONS.

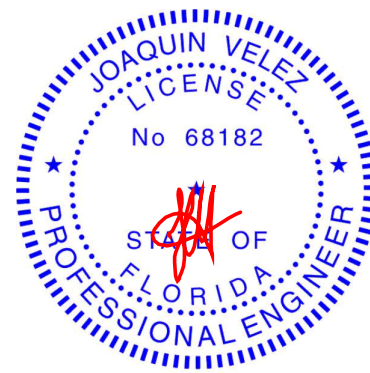
(size) 2=0-5-8, 8=0-5-8  
Max Horz 2=-86(LC 17)  
Max Uplift 2=-181(LC 12), 8=-181(LC 13)  
Max Grav 2=1761(LC 2), 8=1761(LC 2)

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

TOP CHORD 2-3=-3868/1314, 3-4=-3300/952, 4-5=-3388/1147, 5-6=-3388/1147, 6-7=-3300/952,  
7-8=-3866/1313  
BOT CHORD 2-15=-1068/3524, 13-15=-1068/3525, 12-13=-590/3038, 10-12=-1081/3527,  
8-10=-1081/3522  
WEBS 3-15=-2/332, 3-13=-826/550, 13-16=-100/839, 4-16=-22/848, 12-17=-100/839,  
6-17=-22/848, 7-12=-830/550, 7-10=-2/333, 16-18=-519/230, 17-18=-520/229,  
4-18=-306/1053, 6-18=-306/1055

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s).13-16, 12-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-13
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=181, 8=181.
- Attic room checked for L/360 deflection.



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

March 30,2020

**Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



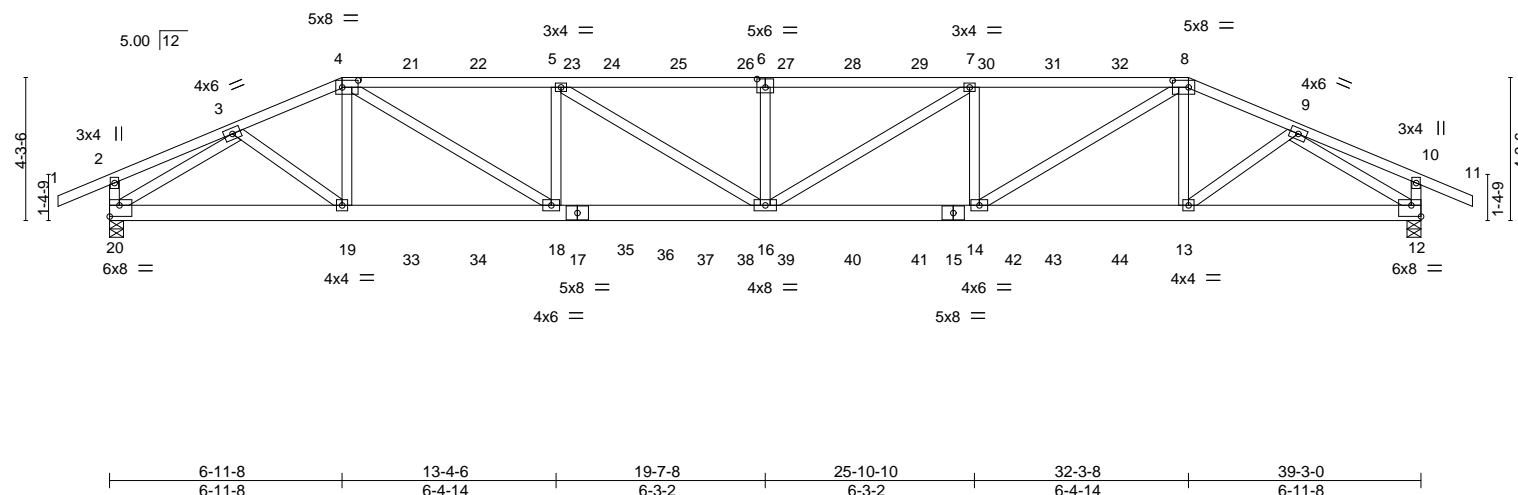
6904 Parke East Blvd.  
Tampa, FL 36610

Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:22 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-JG7S11e\_Xc4e5jRKaMMVOWofF5WwPoxXOx4DVbVjvB

1-6-8	3-10-0	6-11-8	13-4-6	19-7-8	25-10-10	32-3-8	35-5-0	39-3-0	40-9-8
1-6-8	3-10-0	3-1-8	6-4-14	6-3-2	6-3-2	6-4-14	3-1-8	3-10-0	1-6-8

Scale = 1:69.0



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.25	TC 0.93	Vert(LL) 0.33 16 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.71	Vert(CT) -0.56 16 >836 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.10 12 n/a n/a		
BCDL 10.0	Code FBC2017/TPI2014	Matrix-MS		Weight: 501 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-8-12 oc bracing.
WEBS	2x4 SP No.3		

**REACTIONS.** (size) 20=0-5-0, 12=0-5-0  
 Max Horz 20=40(LC 7)  
 Max Uplift 20=-1118(LC 4), 12=-1118(LC 5)  
 Max Grav 20=2925(LC 1), 12=2925(LC 1)

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

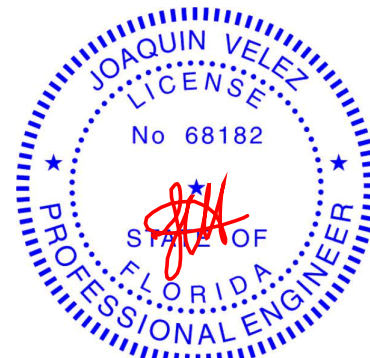
**TOP CHORD** 2-3=-292/139, 3-4=-4948/1990, 4-5=-7080/2833, 5-6=-7871/3130, 6-7=-7871/3130,  
7-8=-7080/2833, 8-9=-4948/1990, 9-10=-292/139, 10-11=-343/151, 10-12=-343/151

**BOT CHORD** 19-20=-1453/3743, 18-19=-1770/4553, 16-18=-2750/7080, 14-16=-2745/7080,  
13-14=-1761/4553, 12-13=-1435/3743

**WEBS** 3-19=-414/1106, 4-18=-1152/2998, 5-18=-1192/566, 5-16=-355/968, 6-16=-628/352,  
7-16=-356/968, 7-14=-1192/566, 8-14=-1152/2998, 9-13=-414/1106, 3-20=-4331/1692,  
9-12=-4331/1692

**NOTES-**

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope); and vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=1118. 12=1118.



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

March 30, 2020

Continued on page 2



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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835989
2302105	T14	Hip Girder	1	2	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:22 2020 Page 2

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-JG7S11e\_Xc4e5jRKaMMVOwofF5WwPoxXOx4DVbZVjbV

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 110 lb down and 92 lb up at 6-11-8, 91 lb down and 92 lb up at 9-0-4, 91 lb down and 92 lb up at 11-0-4, 91 lb down and 92 lb up at 13-0-4, 91 lb down and 92 lb up at 15-0-4, 91 lb down and 92 lb up at 17-0-4, 91 lb down and 92 lb up at 19-0-4, 91 lb down and 92 lb up at 20-2-12, 91 lb down and 92 lb up at 22-2-12, 91 lb down and 92 lb up at 24-2-12, 91 lb down and 92 lb up at 26-2-12, 91 lb down and 92 lb up at 28-2-12, and 91 lb down and 92 lb up at 30-2-12, and 110 lb down and 92 lb up at 32-3-8 on top chord, and 317 lb down and 237 lb up at 6-11-8, 102 lb down and 34 lb up at 9-0-4, 102 lb down and 34 lb up at 11-0-4, 102 lb down and 34 lb up at 13-0-4, 102 lb down and 34 lb up at 15-0-4, 102 lb down and 34 lb up at 17-0-4, 102 lb down and 34 lb up at 19-0-4, 102 lb down and 34 lb up at 20-2-12, 102 lb down and 34 lb up at 22-2-12, 102 lb down and 34 lb up at 24-2-12, 102 lb down and 34 lb up at 26-2-12, 102 lb down and 34 lb up at 28-2-12, and 102 lb down and 34 lb up at 30-2-12, and 317 lb down and 237 lb up at 32-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-8=-54, 8-10=-54, 10-11=-54, 12-20=-20

Concentrated Loads (lb)

Vert: 4=-91(B) 8=-91(B) 19=-315(B) 13=-315(B) 21=-91(B) 22=-91(B) 23=-91(B) 24=-91(B) 25=-91(B) 26=-91(B) 27=-91(B) 28=-91(B) 29=-91(B) 30=-91(B) 31=-91(B) 32=-91(B) 33=-73(B) 34=-73(B) 35=-73(B) 36=-73(B) 37=-73(B) 38=-73(B) 39=-73(B) 40=-73(B) 41=-73(B) 42=-73(B) 43=-73(B) 44=-73(B)

 **WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 36610

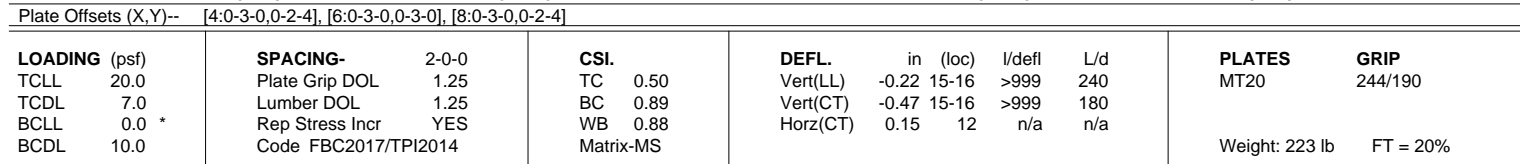
Builders FirstSource, Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:24 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmm0T8uzXTRW-FIFCSifE3DLLL0bjnPzULu6SuARtdaqrFZKa4zVjBt

1-6-8 5-1-2 8-11-8 14-3-3 19-7-8 24-11-13 30-3-8 34-1-14 39-3-0 40-9-8

1-6-8 5-1-2 3-10-6 5-3-11 5-4-5 5-4-5 5-3-11 3-10-6 5-1-2 1-6-8

Scale = 1:69.0



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

TOP CHORD 3-4=-2273/1182, 4-5=-2077/1133, 5-6=-2797/1479, 6-7=-2797/1480, 7-8=-2077/1133,  
8-9=-2273/1182, 2-19=-306/296, 10-12=-306/296

BOT CHORD 18-19=-924/1899, 16-18=-1221/2701, 15-16=-1325/2904, 13-15=-1217/2701,  
12-13=-905/1899

WEBS 3-18=-10/325, 4-18=-274/627, 5-18=-912/447, 5-16=-74/332, 7-15=-74/332,  
7-13=-912/447, 8-13=-274/627, 9-13=-10/325, 3-19=-2090/1069, 9-12=-2090/1069

A circular blue seal for a Professional Engineer in the State of Florida. The outer ring contains the text "JOAQUIN VELEZ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner ring contains the word "LICENSE" at the top and "STATE OF FLORIDA" at the bottom, also separated by two stars. In the center, the license number "No 68182" is printed. A red ink signature is written over the center of the seal.

March 30, 2020



Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835991
2302105	T16	Hip	1	1		

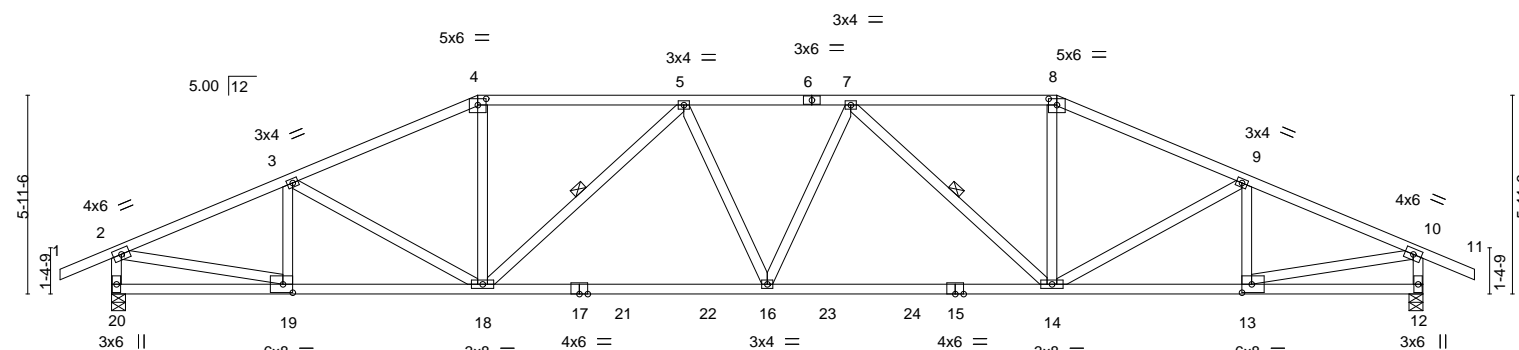
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:25 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-jrpaf2gtqXTCyA9vGVwC0YQH5IV\_c64z4vJt6WzVjbS

1-6-8	5-3-5	10-11-8	17-1-8	22-1-8	28-3-8	33-11-11	39-3-0	40-9-8
1-6-8	5-3-5	5-8-4	6-2-0	4-11-15	6-2-0	5-8-4	5-3-5	1-6-8

Scale = 1:69.0



	5-3-5	10-11-8	19-7-8	28-3-8	33-11-11	39-3-0
	5-3-5	5-8-4	8-8-0	8-8-0	5-8-4	5-3-5

Plate Offsets (X,Y)-- [4:0-3-0,0-2-4], [8:0-3-0,0-2-4], [13:0-3-8,0-3-0], [19:0-3-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.21 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.43 14-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.74	Horz(CT)	0.11 12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 227 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 3-5-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 5-18, 7-14

#### REACTIONS.

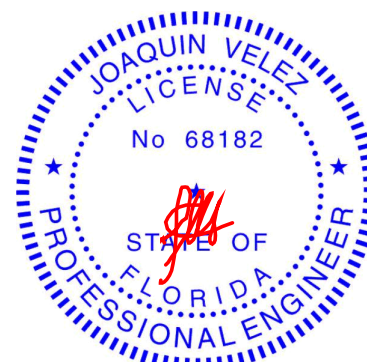
(size) 20=0-5-0, 12=0-5-0  
Max Horz 20=-44(LC 10)  
Max Uplift 20=-337(LC 8), 12=-337(LC 9)  
Max Grav 20=1533(LC 1), 12=1533(LC 1)

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

TOP CHORD 2-3=-2198/1132, 3-4=-2239/1184, 4-5=-2023/1149, 5-7=-2486/1356, 7-8=-2023/1149,  
8-9=-2239/1184, 9-10=-2198/1132, 2-20=-1476/873, 10-12=-1476/873  
BOT CHORD 18-19=-945/1979, 16-18=-1089/2447, 14-16=-1088/2447, 13-14=-927/1979  
WEBS 3-19=-328/242, 4-18=-212/540, 5-18=-677/307, 7-14=-677/307, 8-14=-212/540,  
9-13=-328/242, 2-19=-934/1933, 10-13=-935/1933

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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
- 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) 20=337, 12=337.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835992
2302105	T17	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:27 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-fExL4ki7M8jwCUJHNwyg5zWbi6Gb40OGXDo\_APzVjbQ

1-6-8	6-3-7	12-11-8	19-7-8	26-3-8	32-11-9	39-3-0	40-9-8
1-6-8	6-3-7	6-8-1	6-8-0	6-8-0	6-8-1	6-3-7	1-6-8

Scale = 1:69.0

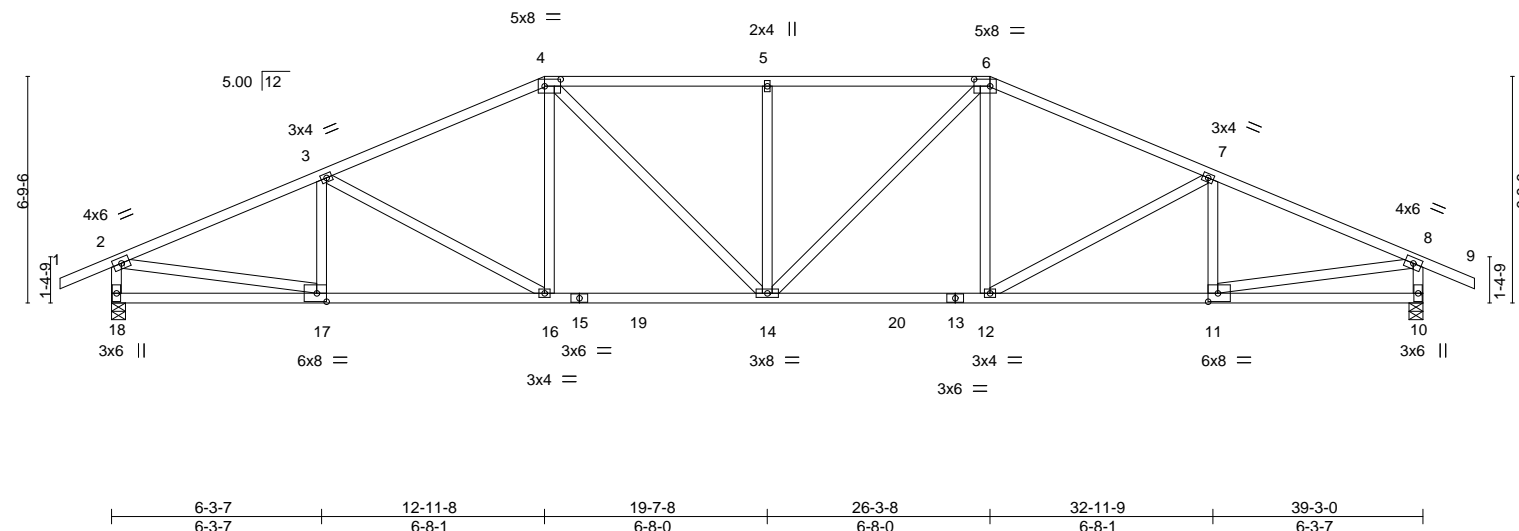


Plate Offsets (X,Y)-- [4:0-5-12,0-2-8], [6:0-5-12,0-2-8], [11:0-3-8,0-3-0], [17:0-3-8,0-3-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	-0.16 14 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.31 14-16 >999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.09 10 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS				Weight: 232 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 3-0-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-11-6 oc bracing.

#### REACTIONS.

(size) 18=0-5-0, 10=0-5-0  
Max Horz 18=45(LC 12)  
Max Uplift 18=-319(LC 8), 10=-319(LC 9)  
Max Grav 18=1533(LC 1), 10=1533(LC 1)

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

TOP CHORD 2-3=-2296/1189, 3-4=-2160/1170, 4-5=-2197/1270, 5-6=-2197/1270, 6-7=-2160/1170, 7-8=-2296/1189, 2-18=-1471/883, 8-10=-1471/883  
BOT CHORD 16-17=-987/2061, 14-16=-815/1928, 12-14=-812/1928, 11-12=-972/2062  
WEBS 4-16=-58/325, 4-14=-187/505, 5-14=-408/299, 6-14=-187/505, 6-12=-58/325, 2-17=-944/1966, 8-11=-945/1966

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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
- 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) 18=319, 10=319.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	RandM Const. - Burks Res.	T19835993
2302105	T18	Hip	1	1	Job Reference (optional)	

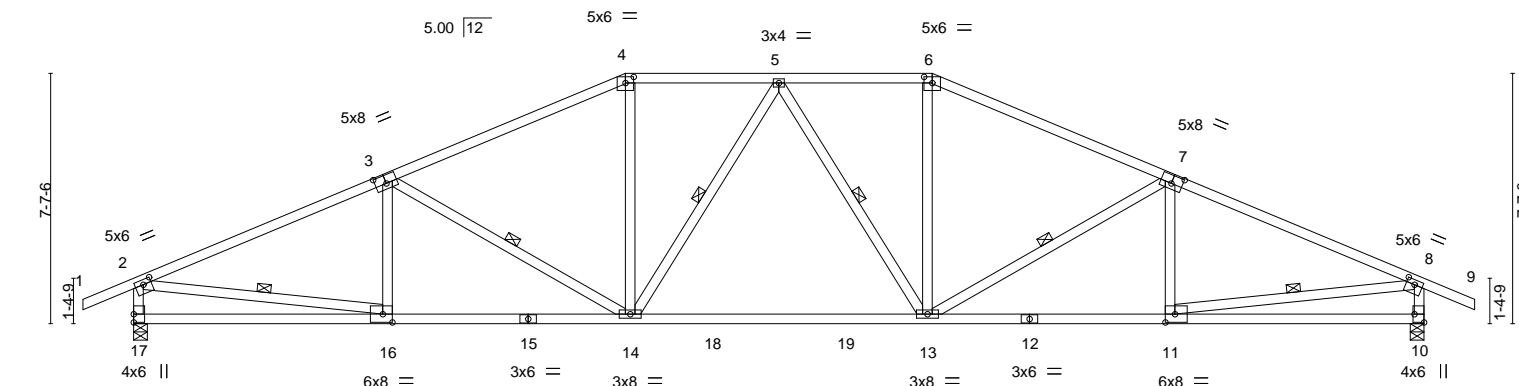
Builders FirstSource, Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Mon Mar 30 14:10:29 2020 Page 1

ID:5atxSn\_Xp0gvqyhkmn0T8uzXTRW-cd25VQjNumzeRoTgVK?8BObvNvsmYv7Z?XH5FHzVjbO

1-6-8	7-8-11	14-11-8	19-7-8	24-3-8	31-6-5	39-3-0	40-9-8
1-6-8	7-8-11	7-2-13	4-8-0	4-8-0	7-2-13	7-8-11	1-6-8

Scale = 1:70.1



	7-8-11	14-11-8	24-3-8	31-6-5	39-3-0	
	7-8-11	7-2-13	9-4-0	7-2-13	7-8-11	

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.31 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.56 13-14	>837	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.08 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 232 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 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.  
WEBS 1 Row at midpt 3-14, 5-14, 5-13, 7-13, 2-16, 8-11

#### REACTIONS.

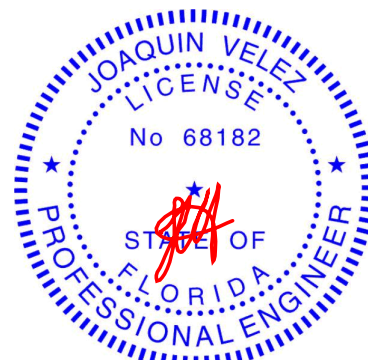
(size) 17=0-5-0, 10=0-5-0  
Max Horz 17=55(LC 12)  
Max Uplift 17=-309(LC 12), 10=-309(LC 13)  
Max Grav 17=1533(LC 1), 10=1533(LC 1)

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

TOP CHORD 2-3=-2366/1238, 3-4=-2060/1143, 4-5=-1831/1121, 5-6=-1831/1121, 6-7=-2060/1143,  
7-8=-2366/1238, 2-17=-1456/897, 8-10=-1456/897  
BOT CHORD 14-16=-1010/2110, 13-14=-805/1907, 11-13=-999/2110  
WEBS 3-14=-368/302, 4-14=-188/480, 5-14=-293/106, 5-13=-293/106, 6-13=-188/480,  
7-13=-368/302, 2-16=-912/1925, 8-11=-913/1925

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) and C-C Exterior(2) 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
- 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) 17=309, 10=309.



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

March 30,2020

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**

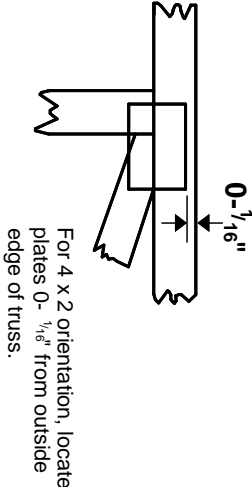
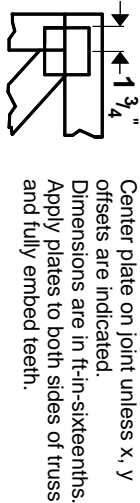
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.  
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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

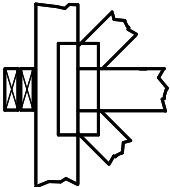
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

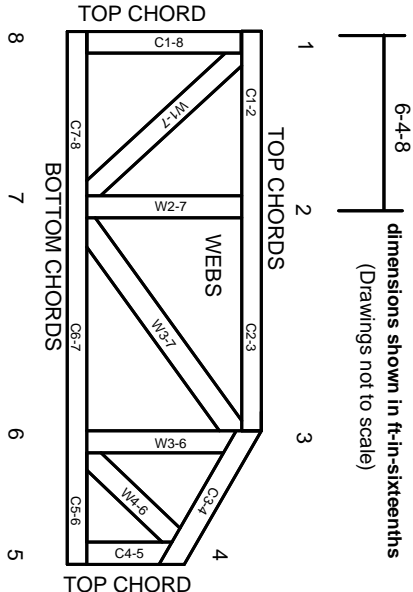
BEARING



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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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