



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

RE: 779758 -

**MiTek USA, Inc.**

6904 Parke East Blvd  
 Tampa, FL 33610-4115

**Site Information:**

Customer Info: Blake Const. Project Name: 779758 Model: Barritt Addition  
 Lot/Block: Subdivision:  
 Address: 152 SW Mandiba Drive  
 City: Columbia Cty State: FL

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

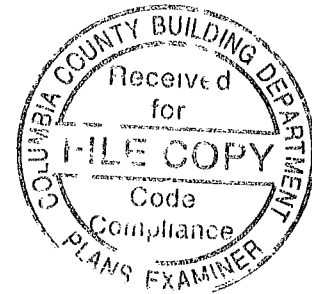
Name: Unknown at time of seals License #: Unknown at time of seals  
 Address: Unknown at time of seals  
 City: Unknown at time of seals State: Unknown at time of seals

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

Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6  
 Wind Code: ASCE 7-10 Wind Speed: 120 mph  
 Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 18 individual, dated 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.

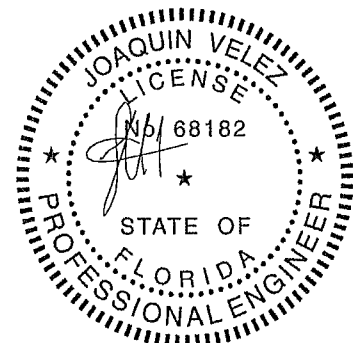
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T8301205	CJ1	3/25/016	18	T8301222	T10	3/25/016
2	T8301206	CJ6	3/25/016				
3	T8301207	CJ8	3/25/016				
4	T8301208	HJ7	3/25/016				
5	T8301209	M04G	3/25/016				
6	T8301210	T01	3/25/016				
7	T8301211	T01G	3/25/016				
8	T8301212	T02	3/25/016				
9	T8301213	T02A	3/25/016				
10	T8301214	T03	3/25/016				
11	T8301215	T03G	3/25/016				
12	T8301216	T04	3/25/016				
13	T8301217	T05	3/25/016				
14	T8301218	T06	3/25/016				
15	T8301219	T07	3/25/016				
16	T8301220	T08	3/25/016				
17	T8301221	T09	3/25/016				



The truss drawing(s) referenced above have been prepared by MiTek Industries, 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, 2017.

**IMPORTANT NOTE:** Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, 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 25, 2016

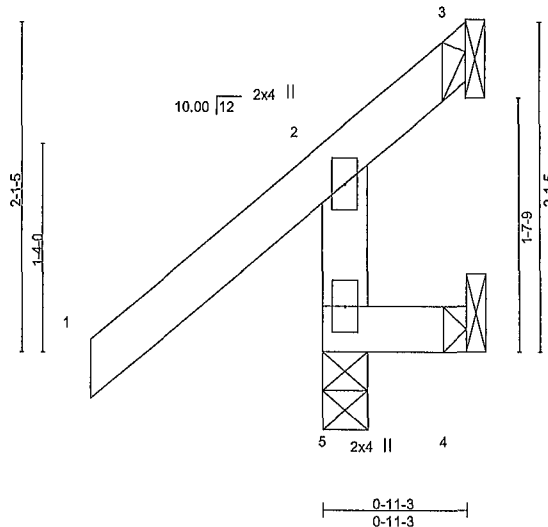
Job 779758	Truss CJ1	Truss Type Jack-Open	Qty 2	Ply 1	T8301205
---------------	--------------	-------------------------	----------	----------	----------

Builders FirstSource, Lake City FL 32055

Job Reference (optional)  
7.640 s Sep 29 2016 MITek Industries, Inc. Fri Mar 25 08:43:02 2016 Page 1



Scale = 1 13.9



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20 0	2-0-0	TC 0 22	in (oc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0 06	Vert(LL) 0 00 5 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0 00	Vert(TL) 0 00 5 >999 180		
BCDL 10 0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) -0 00 3 n/a n/a		
	Code FBC2014/TPI2007			Weight: 8 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD  
BOT CHORD

Structural wood sheathing directly applied or 0-11-3 oc purlins, except end verticals

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

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

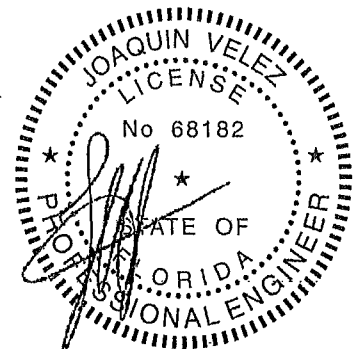
**REACTIONS.** (lb/size) 5=212/0-3-8, 3=-55/Mechanical, 4=-11/Mechanical

Max Horz 5=40(LC 12)  
Max Uplift 3=-55(LC 1), 4=-21(LC 12)  
Max Grav 5=212(LC 1), 3=7(LC 8), 4=11(LC 10)

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

**NOTES-** (7)

- 1) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TC DL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II Exp B, 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, 4
- 6) "Semi-rigid pitchbreaks including heels" Member and fixity model was used in the analysis and design of this truss
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25,2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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



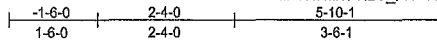
6904 Parke East Blvd  
Tampa, FL 36610

Job 779758	Truss CJ6	Truss Type JACK-OPEN	Qty 1	Ply 1	Job Reference (optional) T8301208
---------------	--------------	-------------------------	----------	----------	--------------------------------------

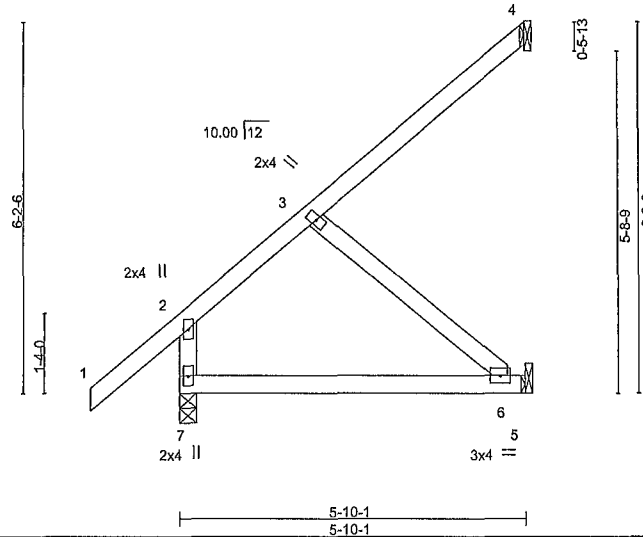
Builders FirstSource Lake City FL 32055

7.640 s Sep 29 2015 MITek Industries, Inc. Fri Mar 25 08:43:02 2016 Page 1

ID:E4XdfvPK2V\_FNDRdgBKWQYzZfHG\_LRK1qEpD1eLd6\_Ltg4c3V8Q94rlv6zB6iBSKbzXSkd



Scale = 1.36:1



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 0.75	Vert(LL)	-0.06 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.40	Vert(TL)	-0.15 6-7	>448	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(TL)	-0.35 4	n/a	n/a		
BCDL 10.0	Code FBC2014/TPI2007	(Matrix-M)					Weight: 31 lb	FT = 20%

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

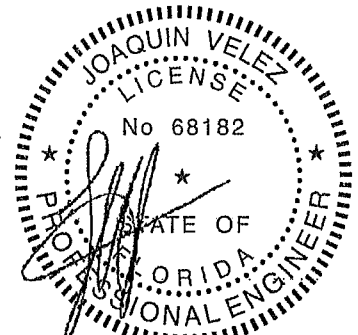
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, except end verticals  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing  
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=310/0-3-8, 4=139/Mechanical, 5=56/Mechanical  
Max Horz 7=132(LC 12)  
Max Uplift 5=-92(LC 12)  
Max Grav 7=310(LC 1), 4=139(LC 1), 5=113(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown  
TOP CHORD 2-7=-254/43  
WEBS 3-6=-217/317

**NOTES- (7)**

- 1) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCCL=4 2psf; BCDL=3 0psf; h=18ft, Cat. II, Exp B, 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) 5
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.

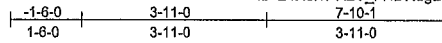


Job 779758	Truss CJ8	Truss Type Jack-Partial	Qty 1	Ply 1	Job Reference (optional) T8301207
---------------	--------------	----------------------------	----------	----------	--------------------------------------

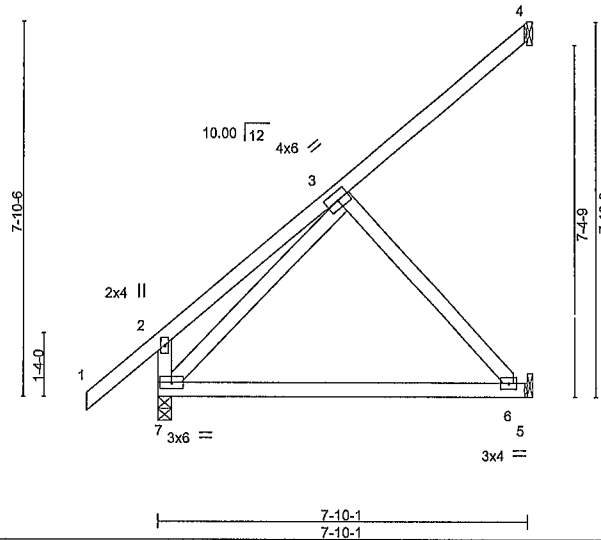
Builders FirstSource Lake City, FL 32055

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 25 08:43:03 2016 Page 1

ID E4XdfVPK2V\_FNDRdgBKWQYzZfHS-SX?IFAFR\_KmCFGYXQObrbjh6U8WeYQKLmX?t1zXSke



Scale = 1:45.4



<b>LOADING (psf)</b> TCLL 20 0 TCDL 7 0 BCLL 0 0 * BCDL 10 0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2014/TPI2007	<b>CSI.</b> TC 0.48 BC 0.62 WB 0.15 (Matrix-M)	<b>DEFL</b> In (loc) l/defl L/d Vert(LL) -0.15 6-7 >624 240 Vert(TL) -0.37 6-7 >245 180 Horz(TL) 0.01 4 n/a n/a	<b>PLATES GRIP</b> MT20 244/190  Weight. 47 lb FT = 20%
--	---	--	---	--

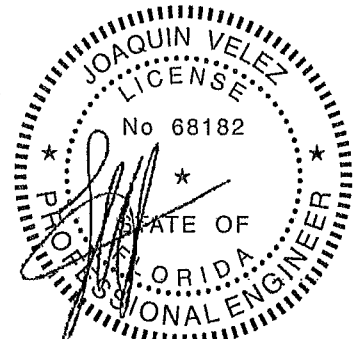
**LUMBER-**  
TOP CHORD 2x4 SP No 2  
BOT CHORD 2x4 SP No 2  
WEBS 2x4 SP No 3

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing  
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 4=89/Mechanical, 5=184/Mechanical, 7=381/0-3-8  
Max Horz 7=171(LC 12)  
Max Uplift 4=-48(LC 12), 5=-66(LC 12)  
Max Grav 4=94(LC 19), 5=199(LC 19), 7=381(LC 1)

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

- NOTES- (7)**
- 1) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TC DL=4.2psf; BCDL=3 0psf; h=18ft Cat. II, Exp B, 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) 4, 5.
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
  - 7) This manufactured product is designed as an individual building component The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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

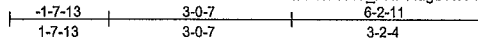


Job 779758	Truss HJ7	Truss Type Diagonal Hip Girder	Qty 1	Ply 1	T8301208
---------------	--------------	-----------------------------------	----------	----------	----------

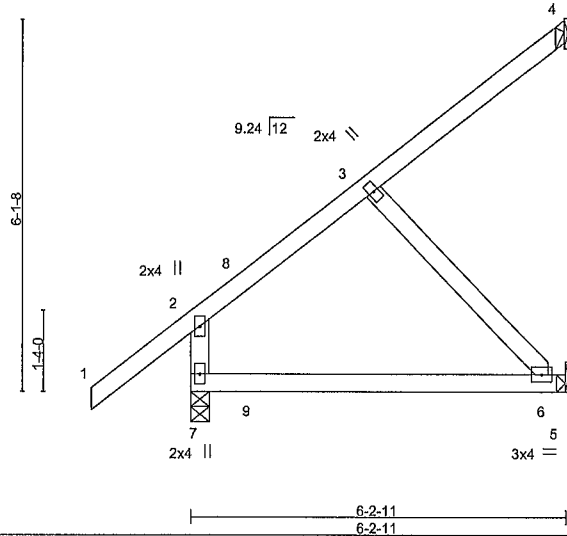
Builders FirstSource Lake City, FL 32055

Job Reference (optional)  
7.640 s Sep 29 2016 MITek Industries Inc. Fri Mar 25 08:43:03 2016 Page 1

ID E4XdvPK2V\_FNDRdgBKWQYzZiHS-SX?IFAFR\_KmCFGYXQObrbjhclUDTeaokLMx?11zXSks



Scale = 1:35.6



<b>LOADING (psf)</b> TCLL 20 0 TCDL 7.0 BCLL 0.0 * BCDL 10 0	<b>SPACING-</b> 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2014/TPI2007	<b>CSI.</b> TC 0 66 BC 0 30 WB 0 06 (Matrix-M)	<b>DEFL.</b> in (loc) l/defl L/d Vert(LL) -0 04 6-7 >999 240 Vert(TL) -0 09 6-7 >767 180 Horz(TL) -0.48 4 n/a n/a	<b>PLATES</b> MT20 <b>GRIP</b> 244/190  Weight 32 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 10-0-0 oc bracing

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=163/0-3-10, 4=133/Mechanical, 5=46/Mechanical  
Max Horz 7=131(LC 8)  
Max Uplift 7=-139(LC 15), 5=-130(LC 8)  
Max Grav 7=166(LC 34), 4=133(LC 1), 5=106(LC 24)

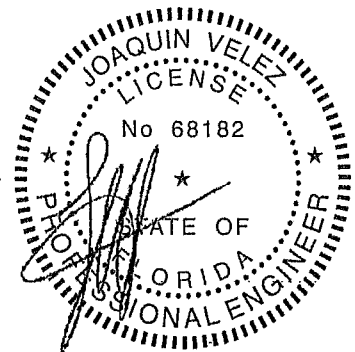
**FORCES.** (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown

**NOTES-** (9)

- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCCL=4 2psf; BCDL=3 0psf; h=18ft, Cat. II, Exp B, 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) 7=139, 5=130
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 196 lb up at 1-0-2, and 45 lb down and 196 lb up at 1-0-2 on top chord, and 94 lb up at 1-0-2, and 94 lb up at 1-0-2 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).
- This manufactured product is designed as an individual building component The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

**LOAD CASE(S)** Standard

- Dead + Roof Live (balanced) Lumber Increase=1 25, Plate Increase=1 25  
Uniform Loads (plf)  
Vert: 1-2=-54, 2-4=-54, 5-7=-20  
Concentrated Loads (lb)  
Vert. 8=101(F=51, B=51) 9=99(F=50, B=50)



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

March 25, 2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N Lee Street Suite 312, Alexandria VA 22314.

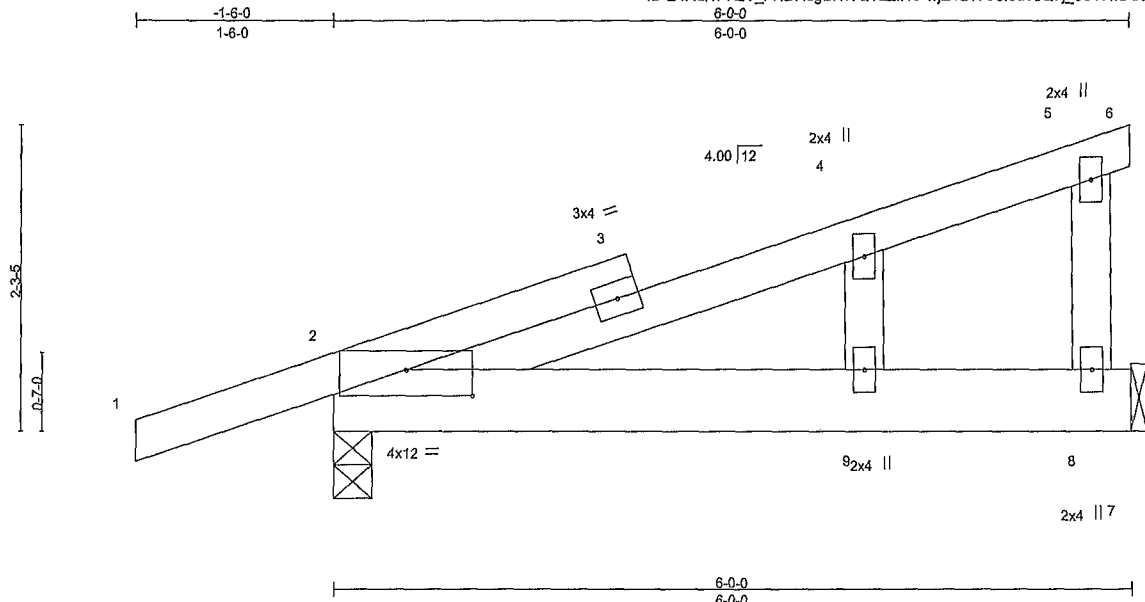


6904 Parke East Blvd  
Tampa FL 33610

Job 779758	Truss M04G	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)	T8301209
---------------	---------------	---------------------	----------	----------	--------------------------	----------

Builders FirstSource Lake City FL 32055

7.640 s Sep 28 2015 MiTek Industries Inc. Fri Mar 25 08:43:04 2016 Page 1  
ID E4XdVfPK2V\_FNDRdgBKWQYzZfHS-wjZ4SWG3Ieu3sQ7j\_5648wDu3ub8N0TUa0gYPTzXSkb



Scale 3/4"=1

Plate Offsets (X,Y)-- [2.0-6-0,0-2-5]

<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 0.21	Vert(LL)	-0.01	2-9	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.15	Vert(TL)	-0.03	2-9	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(TL)	0.00	8	n/a	n/a	
BCDL 10.0	Code FBC2014/TPI2007		(Matrix)						
								Weight: 32 lb	FT = 20%

**LUMBER-**

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size)

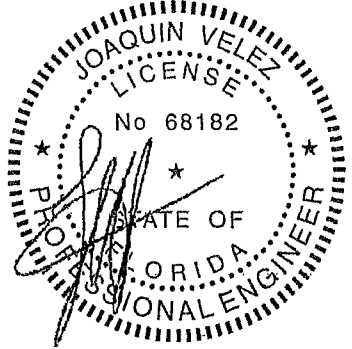
2=308/0-3-8, 8=203/Mechanical  
 Max Horz 2=53(LC 8)  
 Max Uplift 2=65(LC 8) 8=30(LC 12)

**FORCES.** (lb) - Max. Comp./Max Ten

- All forces 250 (lb) or less except when shown

**NOTES-** (9)

- 1) Wind ASCE 7-10 Vult=120mph (3-second gust) Vasd=93mph, TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II Exp B, 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) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
- 3) Gable studs spaced at 2-0-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

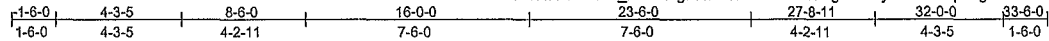
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.</b>          Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component not a truss system. Before use the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems see ANSI/TPI Quality Criteria DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute 218 N Lee Street Suite 312, Alexandria, VA 22314.</p>	 6904 Parke East Blvd Tampa, FL 36610
--	---

Job 779758	Truss T01	Truss Type Roof Special	Qty 6	Ply 1	T8301210
---------------	--------------	----------------------------	----------	----------	----------

Builders FirstSource Lake City, FL 32055

Job Reference (optional)

7,640 s Sep 29 2016 MiTek Industries, Inc. Fri Mar 25 08:43:05 2016 Page 1  
ID E4XdfvPK2V\_FNDRdgBKWQYzZfHS-Ow7SgsHwWyOwUalwYpdJg8m2CImV6PidogQ6xwzXSka



5x6 ==

Scale = 1:71.9

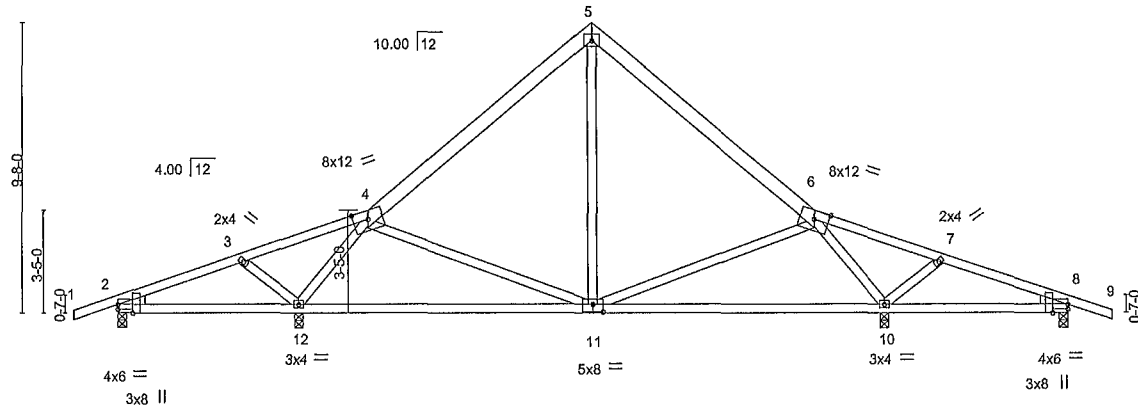


Plate Offsets (X,Y)-- [2,0-0-0,0-1-14], [2,0-3-5,Edge], [8,0-3-5,Edge], [8,0-0-0,0-1-14], [11,0-4-0,0-3-0]

LOADING (psf)	SPACING- 2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 1.25	TC 0.31	Vert(LL)	-0.14	11-12	>999	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(TL)	-0.36	11-12	>657		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(TL)	0.01	10	n/a		
BCDL 10.0	Code FBC2014/TPI2007	(Matrix-M)						
							Weight: 184 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2 \*Except\*  
4-5,5-6 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3, Right: 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 6-0-0 oc bracing

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

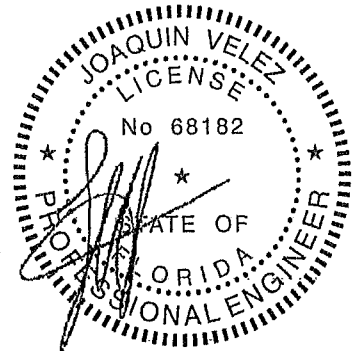
All bearings 0-3-8  
(lb) - Max Horz 2=83(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 10 12 except 2=145(LC 8), 8=132(LC 9)  
Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 10=1031(LC 1), 12=1031(LC 1)

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

TOP CHORD 3-4=-57/255, 4-5=-600/206, 5-6=-600/207  
BOT CHORD 11-12=-80/334, 10-11=-87/334  
WEBS 5-11=-50/348, 6-10=-859/225, 7-10=-268/190, 4-12=-859/227, 3-12=-268/189

**NOTES-** (7)

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph TCDL=4.2psf, BCDL=3 0psf, h=18ft Cat. II Exp B 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 12 except (l=lb) 2=145, 8=132
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**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/TPI Quality Criteria, D58-89 and BCSI Building Component Safety Information available from Truss Plate Institute 218 N. Lee Street Suite 312 Alexandria, VA 22314.



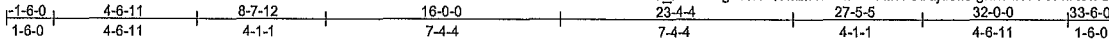
6904 Parke East Blvd  
Tampa, FL 33610

Job 779758	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional)	T8301211
---------------	---------------	---------------------	----------	----------	--------------------------	----------

Builders FirstSource, Lake City, FL 32055

7.640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 25 08:43:07 2016 Page 1

ID E4XdvPK2V\_FNDRdgBKWQYZzHS-LIFD5Xlx1ZGdjustDgnmZrIV5b7aKswG\_vD0ozXSKY



Scale = 1/67 1

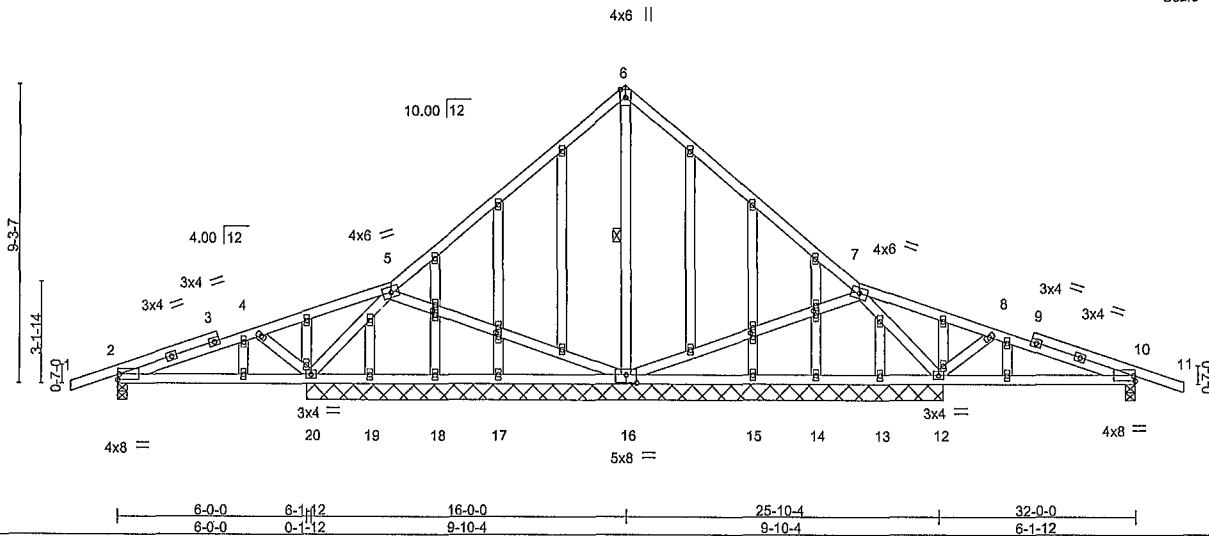


Plate Offsets (X,Y)-- [16:0-4-0-0-3-0], [23:0-1-11,0-1-0], [25:0-1-11,0-1-0], [34.0-1-11,0-1-0], [36.0-1-11,0-1-0]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>2-0-0</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>in (loc)</b>	<b>l/defl</b>	<b>L/d</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.02 12-47	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(TL)	-0.04 12-47	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(TL)	0.01 12	n/a	n/a		
BCDL 10.0	Code FBC2014/TPI2007		(Matrix-M)					Weight: 229 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing  
 WEBS 1 Row at midpt 6-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

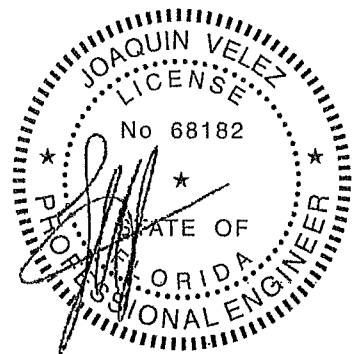
All bearings 20-0-0 except (jt=length) 2=0-3-8, 10=0-3-8.  
 (lb) - Max Horz 2=130(LC 16)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=169(LC 8), 10=157(LC 9), 16=178(LC 12), 12=162(LC 9)  
 20=166(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 15 14, 13 except 2=285(LC 1), 10=285(LC 1), 16=593(LC 1), 12=574(LC 24), 20=574(LC 23)

**FORCES.**

(lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown  
 WEBS 6-16=-391/121, 4-20=-257/171 5-20=-415/167, 8-12=-257/171 7-12=-415/160

**NOTES-**

- (10)
- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-10 Vult=120mph (3-second gust) Vasd=93mph, TC DL=4 2psf, BCDL=3 0psf h=18ft, Cat. II Exp B 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
- 3) 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
- 4) All plates are 2x4 MT20 unless otherwise indicated
- 5) Gable studs spaced at 2-0-0 oc
- 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 169 lb uplift at joint 2, 157 lb uplift at joint 10, 178 lb uplift at joint 16, 162 lb uplift at joint 12 and 166 lb uplift at joint 20
- 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**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.

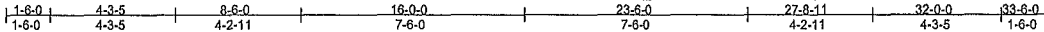


Job 779758	Truss T02	Truss Type Roof Spacial	Qty 5	Ply 1	Job Reference (optional) T8301212
---------------	--------------	----------------------------	----------	----------	--------------------------------------

Builders FirstSource Lake City FL 32065

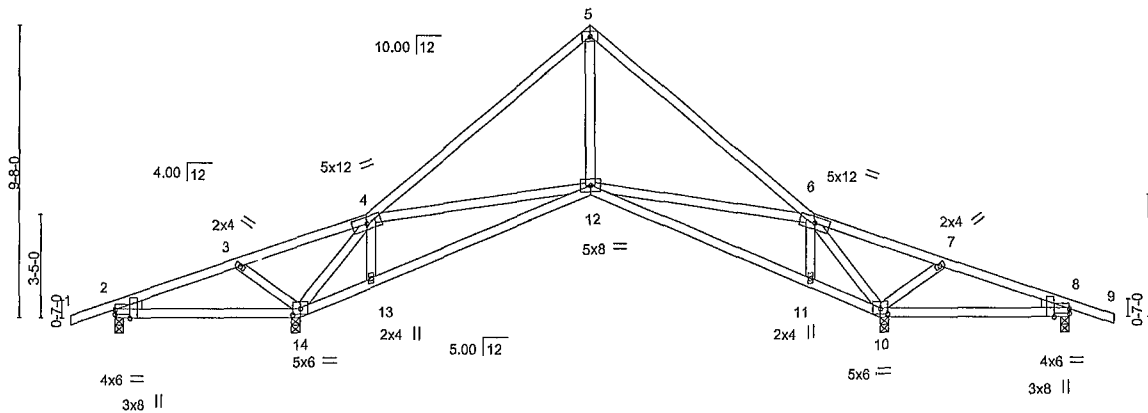
7,640 s Sep 29 2015 MiTek Industries Inc. Fri Mar 25 08:43:08 2016 Page 1

ID:E4XdVfPK2V\_FNDRdgBKWQYzZfHS-pVpblJaoCQU11RVdXB0ImORpVusJl13UeemYFzXSrX



4x6 =

Scale = 1/71.5



6-1-12	6-3-8	8-6-0	16-0-0	23-6-0	25-8-8	32-0-0
6-1-12	0-1-12	2-2-8	7-6-0	7-6-0	2-2-8	0-1-12
Plate Offsets (X,Y)-- [2,0-0-0,0-1-14], [2,0-3-5,Edge], [8,0-3-5,Edge], [8,Edge,0-1-14], [10,0-3-0,0-2-4], [14,0-3-0,0-2-4]						

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.80	TC (LL)	-0.09	12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.42	Vert(TL)	-0.24	12-13	>971	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(TL)	0.07	10	n/a	n/a		
BCDL 10.0	Code	FBC2014/TPI2007	(Matrix-M)							
									Weight: 167 lb	FT = 20%

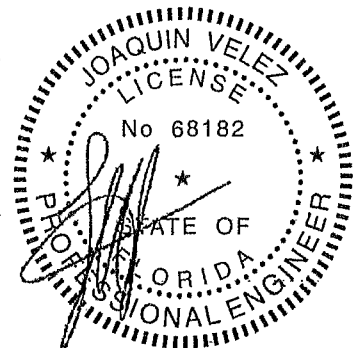
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** All bearings 0-3-8  
 (lb) - Max Horz 2=-85(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-166(LC 8) 14=-111(LC 12) 8=-143(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 14=1108(LC 1) 10=1108(LC 1)

**FORCES.** (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-51/353, 3-4=-76/509, 4-5=-782/120, 5-6=-782/120, 6-7=-14/491 7-8=-10/303  
 BOT CHORD 13-14=-32/314, 12-13=-46/332, 11-12=-54/323, 10-11=-40/288  
 WEBS 5-12=0/521, 6-12=0/307, 6-10=-1177/208, 7-10=-301/176, 4-12=0/252, 4-14=-1177/214, 3-14=-301/175

- NOTES- (7)**
- Unbalanced roof live loads have been considered for this design
  - Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TC DL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, 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
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=166, 14=111, 8=143
  - "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
  - This manufactured product is designed as an individual building component The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**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.

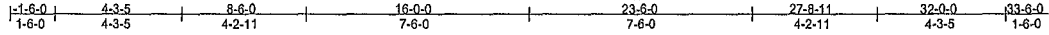


Job 779758	Truss T02A	Truss Type Roof Special	Qty 2	Ply 1	Job Reference (optional)	T8301213
---------------	---------------	----------------------------	----------	----------	--------------------------	----------

Builders FirstSource Lake City FL 32055

7,640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 25 08:43:09 2016 Page 1

ID: E4XdVpK2V\_FNDRdgBKWQYzZiHS-HhMzVdKCZAXLzB0hnelFr\_wczvDS2CHDjIOJ4hzXSKW



4x6 =

Scale = 1"=71.5

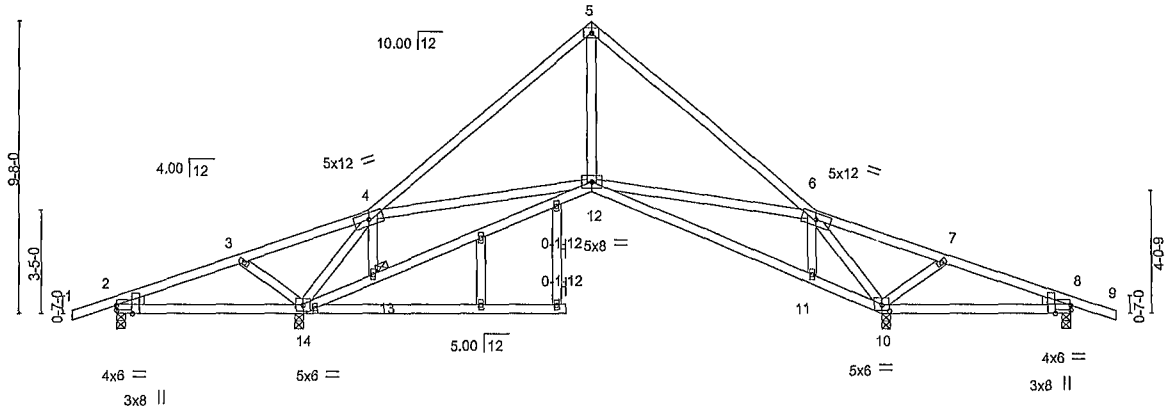


Plate Offsets (X,Y)-- [2:0-0-0,0-1-14], [2:0-3-5,Edge], [8:0-3-5,Edge], [8:0-0-0,0-1-14], [10:0-3-0,0-2-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.80	Vert(LL)	-0.09 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(TL)	-0.24 12-13	>971	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(TL)	0.07 10	n/a	n/a		
BCDL 10.0	Code	FBC2014/TPI2007	(Matrix-M)					Weight: 189 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No 2 \*Except\*  
 15-19 2x4 SP No 3  
 WEBS 2x4 SP No 3  
 WEDGE  
 Left: 2x4 SP No 3, Right: 2x4 SP No.3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing  
 JOINTS 1 Brace at J(s) 13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.**

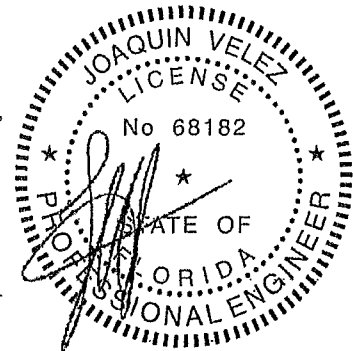
All bearings 0-3-8  
 (lb) - Max Horz 2=-85(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 10 except 2=-166(LC 8), 14=-111(LC 12), 8=-143(LC 9)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8 except 14=1108(LC 1), 10=1108(LC 1)

**FORCES**

(lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-51/353, 3-4=-76/509, 4-5=-782/120, 5-6=-782/120, 6-7=-14/491, 7-8=-10/303  
 BOT CHORD 13-14=-32/314, 12-13=-46/332, 11-12=-54/323, 10-11=-40/288  
 WEBS 5-12=0/521, 6-12=0/307, 6-10=-1177/208, 7-10=-301/176, 4-12=0/252, 4-14=-1177/214, 3-14=-301/175

**NOTES-**

- (8) Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B End , 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
- 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
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 2=166, 14=111, 8=143
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.



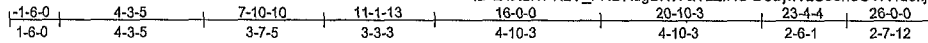
6904 Parke East Blvd  
 Tampa FL 33610



Job 779758	Truss T03G	Truss Type GABLE	Qty 1	Ply 1	Job Reference (optional) 7,640 s Sep 29 2015 MITek Industries Inc. Fri Mar 25 08:43.11 2016 Page 1	T8301215
---------------	---------------	---------------------	----------	----------	---	----------

Builders FirstSource Lake City, FL 32055

ID E4XdfvPK2V\_FNDRdgBKWQYZZfHS-D3UjwvLS5on3CVA4u3kfwP055iz9W7BWBctQ9zXSKU



4x6 =

Scale = 1:63.1

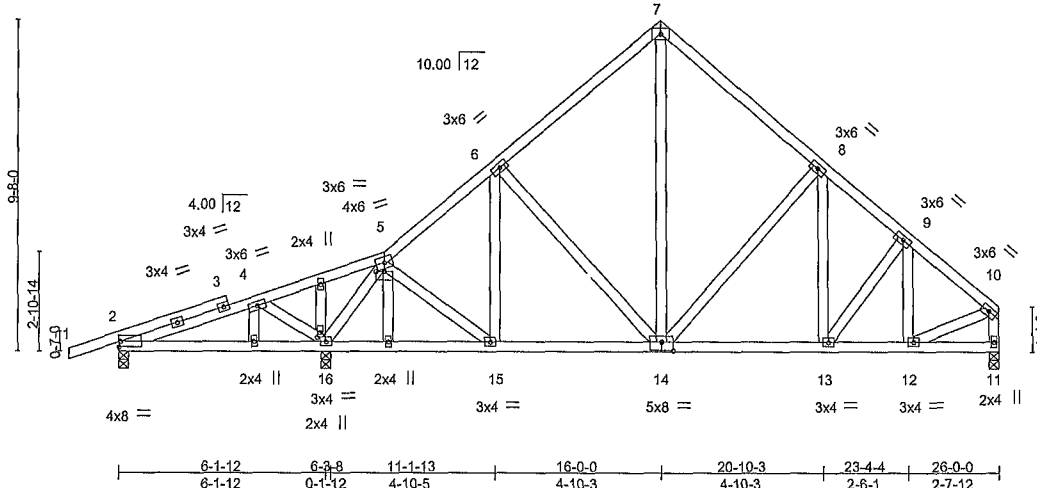


Plate Offsets (X,Y)-- [5,0-3-0,0-3], [14,0-4-0,0-3-0], [16,0-1-11,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI,	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.22	Vert(LL)	0.03 16-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(TL)	-0.05 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(TL)	0.01 11	n/a	n/a		
BCDL 10.0	Code FBC2014/TPI2007		(Matrix-M)					Weight. 178 lb	FT = 20%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing 2-16

MITek recommends that Stabilizers and required cross bracing be installed during truss erection in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 2=226/0-3-8, 11=700/0-3-8, 16=1066/0-3-8

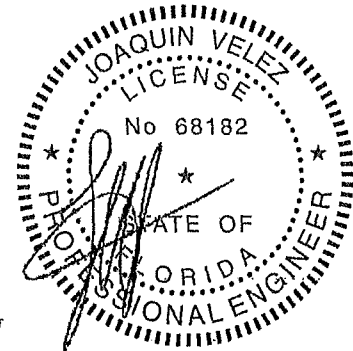
Max Horz 2=206(LC 9)  
 Max Uplift 2=-173(LC 8), 11=-115(LC 13), 16=-236(LC 12)  
 Max Grav 2=239(LC 23), 11=700(LC 1), 16=1066(LC 1)

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

TOP CHORD 4-5=-154/323, 5-6=-632/178, 6-7=-563/229, 7-8=-563/229, 8-9=-684/207, 9-10=-666/163, 10-11=-669/162  
 BOT CHORD 15-16=-81/288, 14-15=-102/490, 13-14=-70/509, 12-13=-87/477  
 WEBS 4-16=-295/208, 5-16=-948/245, 7-14=-173/427, 8-14=-251/172, 10-12=-82/490, 5-15=-37/270

**NOTES-** (9)

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-10 Vult=120mph (3-second gust) Vasd=93mph, TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat II, Exp B, Encl , GCpi=0 18, MWFRS (enve,ope) gable end zone and C-C Exterior(2) zone, porch left exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1 60 plate grip DOL=1 60
- 3) 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
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 6) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (It=lb) 2=173, 11=115, 16=236
- 8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 9) This manufactured product is designed as an individual building component The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25,2016

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

Design void 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.

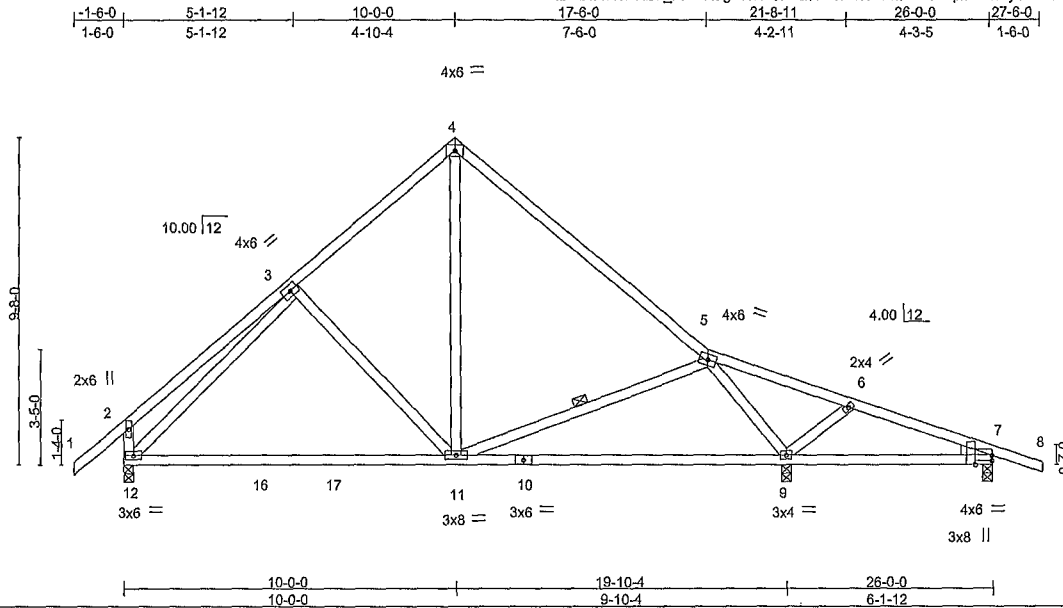


6904 Parke East Blvd  
 Tampa FL 33610

Job 779758	Truss T04	Truss Type Roof Special	Qty 6	Ply 1	T8301216
---------------	--------------	----------------------------	----------	----------	----------

Builders FirstSource Lake City FL 32055

7,640 s Sep 29 2015 MITek Industries Inc. Fri Mar 25 08:43:12 2016 Page 1  
ID E4XdFvPK2V\_FNDRdgBKWQYzZfHS-hGZ58FM4s5vwqfKGSnFYtCY7H68gFWsfPGc\_h0zXSkt



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [7.0-0-0-0-1-14], [7.0-3-5,Edge]

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 0.77	Vert(LL)	-0.21	11-12	>999	MT20	244/190
TCDL 7 0	Lumber DOL 1.25	BC 0.87	Vert(TL)	-0.51	11-12	>460		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(TL)	0.02	9	n/a		
BCDL 10 0	Code FBC2014/TPI2007	(Matrix-M)						
							Weight: 149 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 WEDGE  
 Right: 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 6-0-0 oc bracing  
 WEBS 1 Row at midpt 5-11

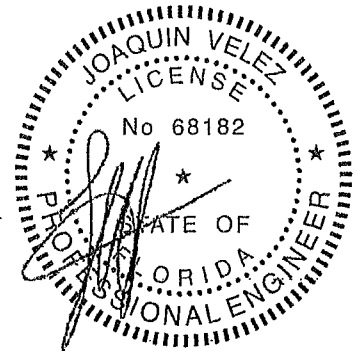
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 9=1070/0-3-8, 12=792/0-3-8, 7=222/0-3-8  
 Max Horz 12=-161(LC 10)  
 Max Uplift 9=-79(LC 13), 12=-60(LC 12), 7=-131(LC 9)  
 Max Grav 9=1070(LC 1), 12=792(LC 1), 7=238(LC 24)

**FORCES.** (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-293/148, 3-4=-581/235, 4-5=-628/202, 5-6=-18/261, 2-12=-348/205  
 BOT CHORD 12-16=-57/539, 16-17=-57/539, 11-17=-57/539, 10-11=-102/347, 9-10=-102/347  
 WEBS 4-11=-113/409, 5-9=-922/230, 6-9=-251/176, 3-12=-531/74

**NOTES-** (7)

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCDL=4.2psf; BCDL=3.0psf; h=18ft, Cat. II, Exp B, Encl, GCpi=0.18, MWFRS (envelope) and C-C Exterior(2) zone, porch 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 psf 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 = 10.0 psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 12 except (I=lb) 7=-131
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

March 25, 2016

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.



Job 779758	Truss T05	Truss Type Roof Special	Qty 1	Ply 1	T8301217
---------------	--------------	----------------------------	----------	----------	----------

Job Reference (optional)  
7.640 s Sep 29 2015 MITek Industries Inc. Fri Mar 25 08:43.12 2016 Page 1

Builders FirstSource, Lake City FL 32055

ID E4XdVfPK2V\_FNDRdgBKWQYzZfHS-hG258FM4s5vwqfkGSnFyTcY7H6ToFW9fPGc\_h0zXSkt



4x6 =

Scale = 1.58.0

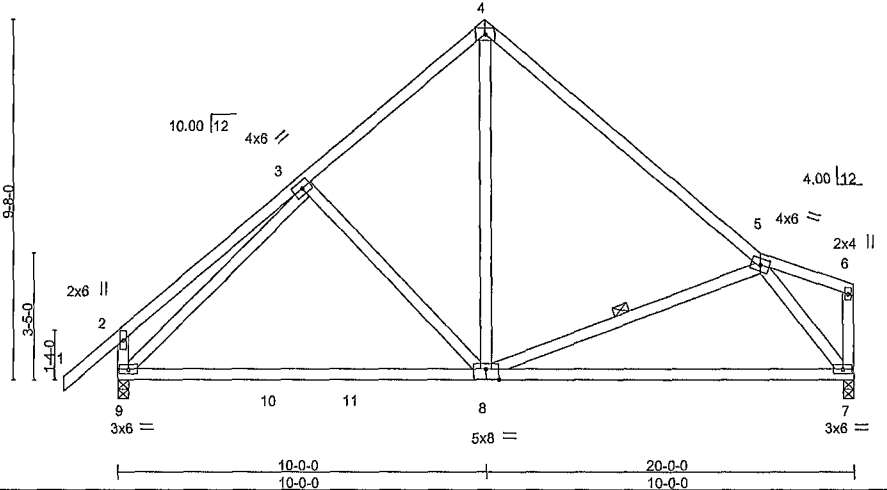


Plate Offsets (X,Y)-- [8.0-4.0-0-3-4]

<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 77	Vert(LL) -0.22 8-9 >999 240	MT20	244/190
TCDL 7 0	Lumber DOL 1 25	BC 0 93	Vert(TL) -0.49 8-9 >480 180		
BCLL 0 0 *	Rep Stress Incr YES	WB 0 56	Horz(TL) 0.02 7 n/a n/a		
BCDL 10 0	Code FBC2014/TPI2007	(Matrix-M)		Weight. 126 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 5-8

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

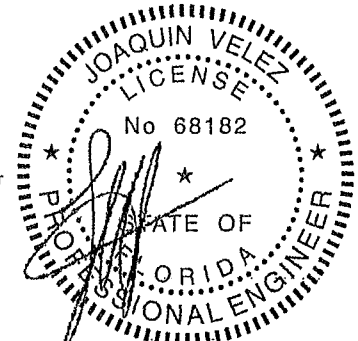
**REACTIONS.** (lb/size) 9=822/0-3-8 7=725/0-3-8  
Max Horz 9=-139(LC 10)  
Max Uplift 9=-59(LC 12), 7=-47(LC 13)

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

TOP CHORD 2-3=-292/145, 3-4=-625/228, 4-5=-672/197, 2-9=-348/203  
BOT CHORD 9-10=-121/551, 10-11=-121/551, 8-11=-121/551, 7-8=-157/502  
WEBS 4-8=-107/454, 3-9=-578/69, 5-7=-784/282

**NOTES-** (7)

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCDL=4.2psf BCDL=3.0psf; h=18ft; Cat. II, Exp B, 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, with BCDL = 10 0psf
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 7
- \*Semi-rigid pitchbreaks including heels\* Member end fixity model was used in the analysis and design of this truss
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.



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

March 25,2016

**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, D38-89 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 779758	Truss T06	Truss Type Roof Special Girder	Qty 1	Ply 1	Job Reference (optional)	T8301218
---------------	--------------	-----------------------------------	----------	----------	--------------------------	----------

Builders FirstSource Lake City FL 32055

7.640 s Sep 29 2015 MITek Industries Inc. Fri Mar 25 08:43:13 2016 Page 1

ID E4XdFvPK2V\_FNDRdgBKWQYzZHs-9ScULbNidP1nRpJS0UmC7q5f7WVvN\_vBoewMXDSzXSks



4x6 =

Scale = 1.58 0

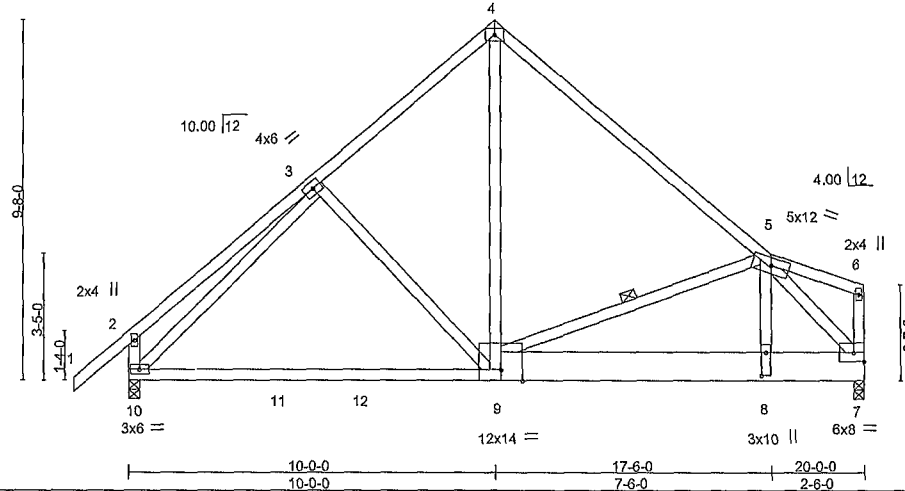


Plate Offsets (X,Y)-- [8.0-7-8.0-1-8]

<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 0.77	Vert(LL) -0.18 9-10 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.78	Vert(TL) -0.44 9-10 >533 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.83	Horz(TL) 0.02 7 n/a n/a		
BCDL 10.0	Code FBC2014/TPI2007	(Matrix-M)			
				Weight: 152 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No 2 \*Except\*  
4-5 2x4 SP No 1  
BOT CHORD 2x4 SP No 1 \*Except\*  
7-9 2x10 SP No 2  
WEBS 2x4 SP No 3

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-1-5 oc purlins, except end verticals  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing  
WEBS 1 Row at midpt 5-9

MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 7=2214/0-3-8, 10=1038/0-3-8  
Max Horz 10=-139(LC 6)  
Max Uplift 7=-367(LC 9), 10=-106(LC 8)

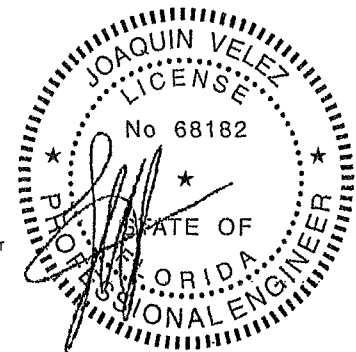
**FORCES.** (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown  
TOP CHORD 2-3=-293/96, 3-4=-919/171, 4-5=-980/163, 2-10=-350/102  
BOT CHORD 10-, 1=-135/717, 11-12=-135/717 9-12=-135/717, 8-9=-292/1686 7-8=-277/1610  
WEBS 4-9=-123/732, 3-10=-856/84, 5-7=-2482/434 5-8=-300/1543, 5-9=-1151/320

**NOTES-** (9)

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp B, Encl, GCpl=0.18, MWFRS (envelope), Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (It=lb) 7=367, 10=106
- 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1705 lb down and 386 lb up at 17-6-4 on bottom chord The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

**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, 4-5=-54, 5-6=-54, 7-10=-20  
Concentrated Loads (lb)  
Vert. 8=-1705(B)



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

March 25, 2016

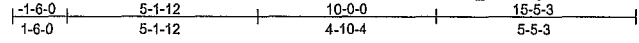
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.**  
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component not a truss system. Before 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 D58-89 and BCSI Building Component Safety Information available from Truss Plate Institute 218 N Lea Street Suite 312, Alexandria, VA 22314.



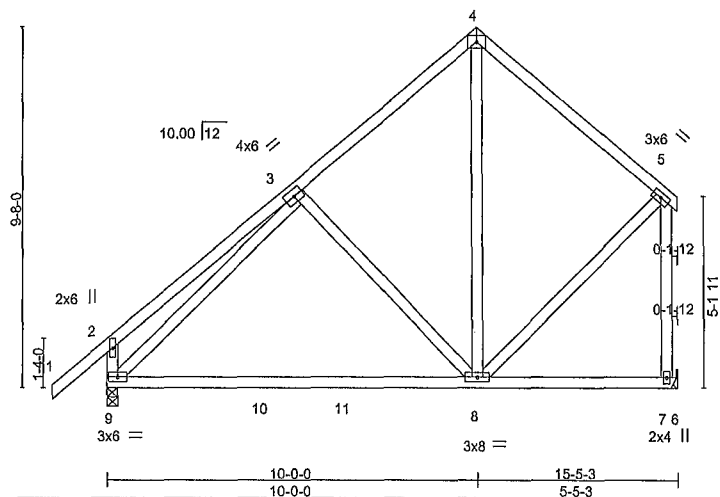
6904 Parke East Blvd  
Tampa FL 33610

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
779758	T07	Common	1	1	

Builders FirstSource Lake City FL 32055 7,640 s Sep 29 2015 MiTek Industries Inc. Fri Mar 25 08:43:14 2016 Page 1  
 ID E4XdvPK2V\_FNDRdgBKWQYzZfHS-deAsZxOKOJ9e3yueZBIRY1eXxwssJTFyta54luzXSKr



4x6 = Scale = 1.58.0



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20 0	2-0-0	TC 0 57	in (loc) l/defl L/d	MT20	244/190
TCDL 7 0	Plate Grip DOL 1.25	BC 0 76	Vert(LL) -0.24 8-9 >763 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.33	Vert(TL) -0 59 8-9 >304 180		
BCDL 10.0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2014/TPI2007			Weight: 109 lb	FT = 20%

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

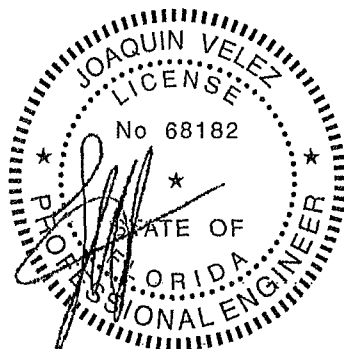
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS.** (lb/size) 9=648/0-3-8, 7=556/Mechanical  
 Max Horz 9=151(LC 12)  
 Max Uplift 9=-37(LC 12), 7=-62(LC 12)

**FORCES.** (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-286/132, 3-4=-381/149 4-5=-374/139, 2-9=-341/194, 5-7=-527/158  
 BOT CHORD 9-10=-158/388, 10-11=-158/388, 8-11=-158/388  
 WEBS 3-9=-341/7 5-8=-30/340

- NOTES-** (8)
- 1) Unbalanced roof live loads have been considered for this design
  - 2) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TC DL=4 2psf; BCDL=3.0psf; h=18ft Cat. II, Exp B, 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
  - 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10 0psf
  - 5) Refer to girder(s) for truss to truss connections
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
  - 8) This manufactured product is designed as an individual building component The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

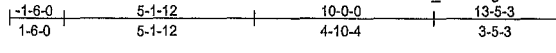


Joaquin Velez PE No.68182  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd Tampa FL 33610  
 Date:

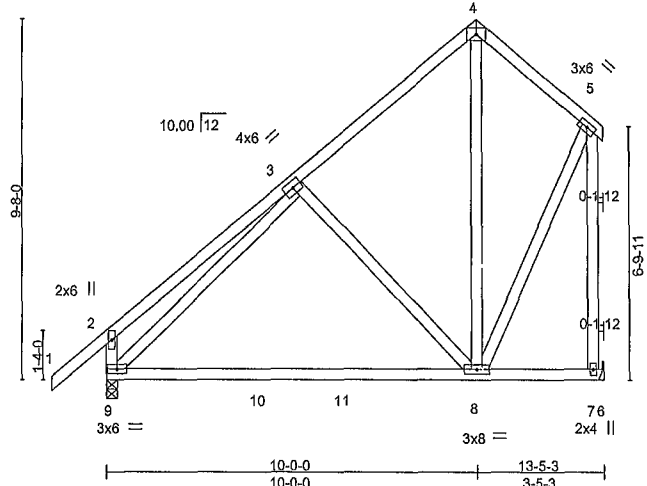
March 25,2016

Job 779758	Truss T08	Truss Type Common	Qty 1	Ply 1	78301220
---------------	--------------	----------------------	----------	----------	----------

Builders FirstSource Lake City FL 32055  
 Job Reference (optional)  
 ID E4XdfvPK2V\_FNDRdgBKWQYzZfHS-deAsZxOKOj9e3yueZBIRY1eX4wsvjVbyta54luzXSkR



4x6 =  
Scale = 1/58.0



<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20 0	2-0-0	TC 0 56	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0 76	Vert(LL) -0.23 8-9 >674 240		
BCLL 0 0 *	Lumber DOL 1.25	WB 0 25	Vert(TL) -0.58 8-9 >269 180		
BCDL 10 0	Rep Stress Incr YES	(Matrix-M)	Horz(TL) 0.01 7 n/a n/a		
	Code FBC2014/TPI2007			Weight: 105 lb	FT = 20%

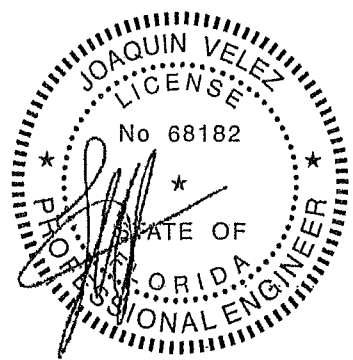
**LUMBER-**  
 TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No 2  
 WEBS 2x4 SP No 3

**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  
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 9=575/0-3-8, 7=481/Mechanical  
 Max Horz 9=175(LC 12)  
 Max Uplift 9=-16(LC 12), 7=-82(LC 12)  
 Max Grav 9=575(LC 1), 7=492(LC 19)

**FORCES.** (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-274/129, 3-4=-281/90, 2-9=-333/193, 5-7=-533/161  
 BOT CHORD 9-10=-174/316, 10-11=-174/316, 8-11=-174/316  
 WEBS 3-9=-253/9, 5-8=-78/392

- NOTES-** (8)
- 1) Unbalanced roof live loads have been considered for this design
  - 2) Wind ASCE 7-10; Vult=120mph (3-second gust) Vasd=93mph, TCDL=4 2psf; BCDL=3 0psf; h=18ft; Cat. II, Exp B, 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
  - 4) \* This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 0 0psf
  - 5) Refer to girder(s) for truss to truss connections
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7
  - 7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
  - 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code



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

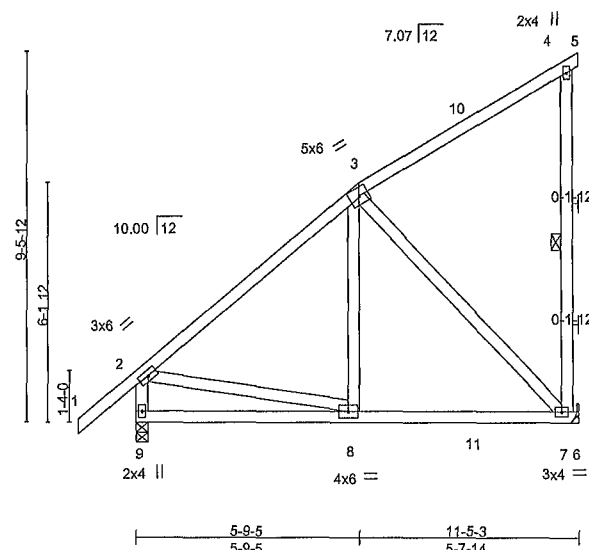
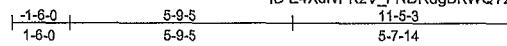
March 25, 2016

**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 779758	Truss T09	Truss Type Jack-Closed Girder	Qty 1	Ply 1	Job Reference (optional) 7.640 s Sep 29 2015 MITek Industries Inc. Fri Mar 25 08:43:15 2016 Page 1	T8301221
---------------	--------------	----------------------------------	----------	----------	---	----------

\* Builders FirstSource Lake City, FL 32055



Scale = 1:55.4

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 0.40	Vert(LL) 0.06 7-8	>999	240	MT20	244/190
TCDL 7 0	Lumber DOL 1.25	BC 0.62	Vert(TL) -0.14 7-8	>952	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.55	Horz(TL) -0.00 7	n/a	n/a		
BCDL 10 0	Code FBC2014/TPI2007	(Matrix-M)				Weight, 83 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 10-0-0 oc bracing  
 WEBS 1 Row at midpt 4-7

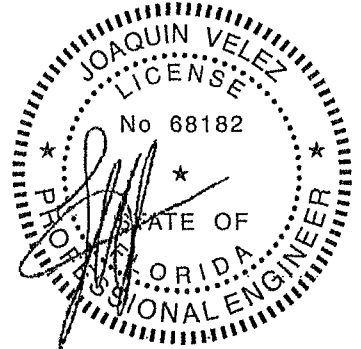
MITek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer installation guide.

**REACTIONS.** (lb/size) 9=576/0-3-8 7=573/Mechanical  
 Max Horz 9=208(LC 23)  
 Max Uplift 9=-123(LC 8), 7=-335(LC 8)  
 Max Grav 9=576(LC 1), 7=618(LC 29)

**FORCES.** (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-9=-543/144, 2-3=-516/156  
 BOT CHORD 8-9=-260/175, 8-11=-223/326, 7-11=-223/326  
 WEBS 2-8=-216/419, 3-8=-250/334, 3-7=-463/322

- NOTES-** (9)
- 1) Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCCL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp B, Encl, GCpl=0.18, MWFRS (envelope), 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 Opsf 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) except (I=lb) 9=123 7=335
  - 6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 185 lb down and 22 lb up at 5-9-5, and 72 lb down and 82 lb up at 8-8-5 on top chord, and 184 lb down and 302 lb up at 5-9-5, and 158 lb down and 94 lb up at 8-8-5 on bottom chord The design/selection of such connection device(s) is the responsibility of others
  - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
  - 9) This manufactured product is designed as an Individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-2=-54, 2-3=-54, 3-4=-54, 4-5=-14, 6-9=-20



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

March 25,2016

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 D5B-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 779758	Truss T09	Truss Type Jack-Closed Girder	Qty 1	Ply 1	T8301221 Job Reference (optional)
---------------	--------------	----------------------------------	----------	----------	--------------------------------------

Builders FirstSource, Lake City, FL 32055

7 640 s Sep 29 2015 Mitek Industries, Inc. Fri Mar 25 08:43:15 2016 Page 2  
ID.E4XdVpK2V\_FNDRdgBKWQYzZfHS-6rkEmGOz90HVh6Tr7vpg4FAkOKEQS1055ErelLzXSkQ

LOAD CASE(S) Standard  
Concentrated Loads (lb)  
Vert: 8--19(B) 3--55(B) 10--13(B) 11--155(B)

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.

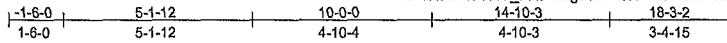


6904 Parke East Blvd  
Tampa FL 38610

Job 779758	Truss T10	Truss Type Common Girder	Qty 1	Ply 1	Job Reference (optional)	T8301222
---------------	--------------	-----------------------------	----------	----------	--------------------------	----------

Builders FirstSource Lake City, FL 32055

7 640 s Sep 29 2015 MiTek Industries, Inc. Fri Mar 25 08:43 16 2016 Page 1



4x6 =

Scale = 1:58.0

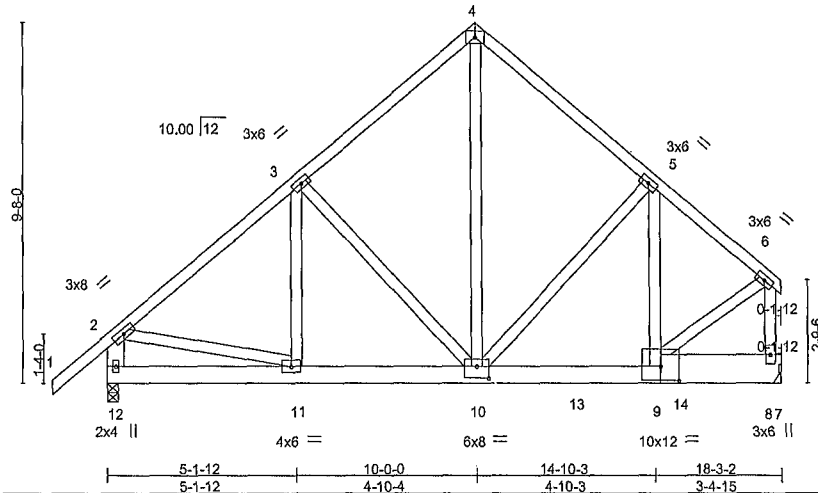


Plate Offsets (X,Y)-- [9.0-6-0,0-4-8], [10.0-4-0,0-3-12]

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 0.30	Vert(LL)	-0.04 9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(TL)	-0.10 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(TL)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2014/TPI2007		(Matrix-M)						
								Weight: 152 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x4 SP No 2  
 BOT CHORD 2x6 SP No 2 \*Except\*  
 7-9 2x10 SP No 2  
 WEBS 2x4 SP No 3 \*Except\*  
 2-12 2x6 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing 8-9

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

**REACTIONS.** (lb/size) 12=1209/0-3-8, 8=1733/Mechanical  
 Max Horz 12=152(LC 5)  
 Max Uplift 12=246(LC 8), 8=357(LC 8)

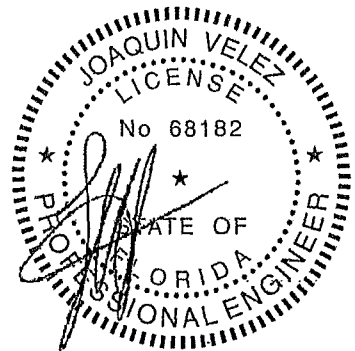
**FORCES.** (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown  
 TOP CHORD 2-3=-1235/298, 3-4=-1147/373, 4-5=-1145/373, 5-6=-1297/298 6-8=-1700/370  
 2-12=-1141/256  
 BOT CHORD 10-11=-257/882, 10-13=-209/966, 9-13=-209/966  
 WEBS 3-10=-271/186, 4-10=-405/1106, 5-10=-270/63, 6-9=-270/1266, 2-11=-154/806

**NOTES-** (10)

- Unbalanced roof live loads have been considered for this design
- Wind ASCE 7-10, Vult=120mph (3-second gust) Vasd=93mph, TCDL=4 2psf; BCDL=3.0psf; h=18ft; Cat. II, Exp B, Encl , GCpl=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 psf 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) 12=246, 8=357
- "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 550 lb down and 363 lb up at 9-10-6, and 453 lb down and 111 lb up at 12-8-5, and 528 lb down and 90 lb up at 15-6-4 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)
- This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code

**LOAD CASE(S)** Standard

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



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

March 25, 2016

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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/TPI 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 779758	Truss T10	Truss Type Common Girder	Qty 1	Ply 1	T8301222
---------------	--------------	-----------------------------	----------	----------	----------

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)  
7.640 s Sep 29 2015 Mitek Industries, Inc. Fri Mar 25 08:43:16 2016 Page 2  
ID E4XdfvPK2V\_FNDRdgbKwQYzZfHS-a1HoczPbwKPMIG21hoKvdSjxeja7BlmFKuaBqzXSskP

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-6=-54, 7-12=-20

Concentrated Loads (lb)

Vert: 10=-550(F) 13=-453(F) 14=-528(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 D58-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

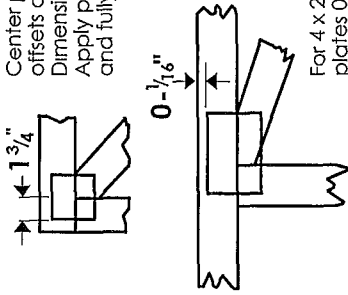


6904 Parke East Blvd  
Tampa, FL 33610

# Symbols

## PLATE LOCATION AND ORIENTATION

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



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

This symbol indicates the required direction of slots in connector plates



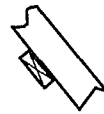
\* Plate location details available in Mitek 20/20 software or upon request.

## PLATE SIZE

4 X 4

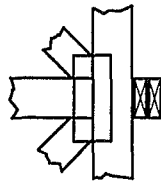
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots

## LATERAL BRACING LOCATION



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

## BEARING

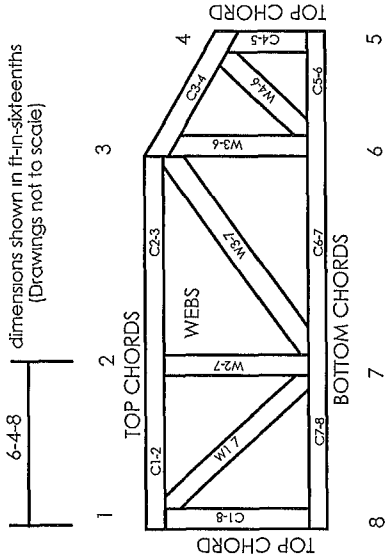


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

## Industry Standards:

- ANSI/TPI1: 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.

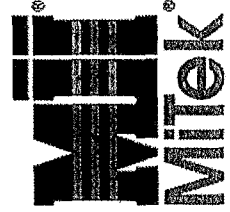
PRODUCT CODE APPROVALS  
ICC-ES Reports.

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/TPI 1 section 6.3. These truss designs rely on lumber values established by others.

© 2012 Mitek® All Rights Reserved



Mitek Engineering Reference Sheet: MIL-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 Tor1 bracing should be considered
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other
6. Place plates on each face of truss at each joint and embed fully. Knots and warps at joint locations are regulated by ANSI/TPI1
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1
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 purfins 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/TPI1 Quality Criteria