



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

RE: 2454743 - IC CONST - ADAM'S RES.

MiTek USA, Inc.

6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

Customer Info: IC Const. Project Name: Adam's Res. Model: Custom  
Lot/Block: N/A Subdivision: N/A  
Address: 374 SW Paddock Court, N/A  
City: Columbia Cty State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2  
Wind Code: ASCE 7-10 Wind Speed: 130 mph  
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 36 individual, Truss Design Drawings and 0 Additional Drawings.

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T21450597	EJ01	9/30/20	23	T21450619	T11G	9/30/20
2	T21450598	EJ02	9/30/20	24	T21450620	T12	9/30/20
3	T21450599	PB01	9/30/20	25	T21450621	T13	9/30/20
4	T21450600	PB01G	9/30/20	26	T21450622	T13G	9/30/20
5	T21450601	PB02	9/30/20	27	T21450623	T14	9/30/20
6	T21450602	PB02G	9/30/20	28	T21450624	T15	9/30/20
7	T21450603	T01	9/30/20	29	T21450625	TF01	9/30/20
8	T21450604	T01G	9/30/20	30	T21450626	TF02	9/30/20
9	T21450605	T02	9/30/20	31	T21450627	TF03	9/30/20
10	T21450606	T03	9/30/20	32	T21450628	TF04	9/30/20
11	T21450607	T04	9/30/20	33	T21450629	TF05	9/30/20
12	T21450608	T05	9/30/20	34	T21450630	TF06	9/30/20
13	T21450609	T06	9/30/20	35	T21450631	TF07	9/30/20
14	T21450610	T07	9/30/20	36	T21450632	TG01	9/30/20
15	T21450611	T07G	9/30/20				
16	T21450612	T08	9/30/20				
17	T21450613	T08G	9/30/20				
18	T21450614	T09	9/30/20				
19	T21450615	T09G	9/30/20				
20	T21450616	T10	9/30/20				
21	T21450617	T10G	9/30/20				
22	T21450618	T11	9/30/20				

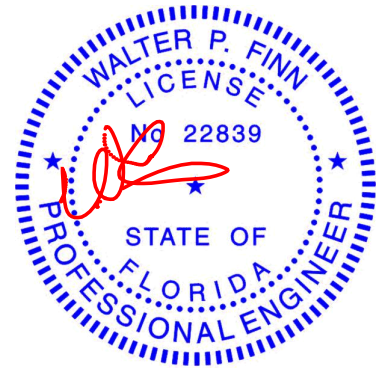


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Finn, Walter

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

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



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

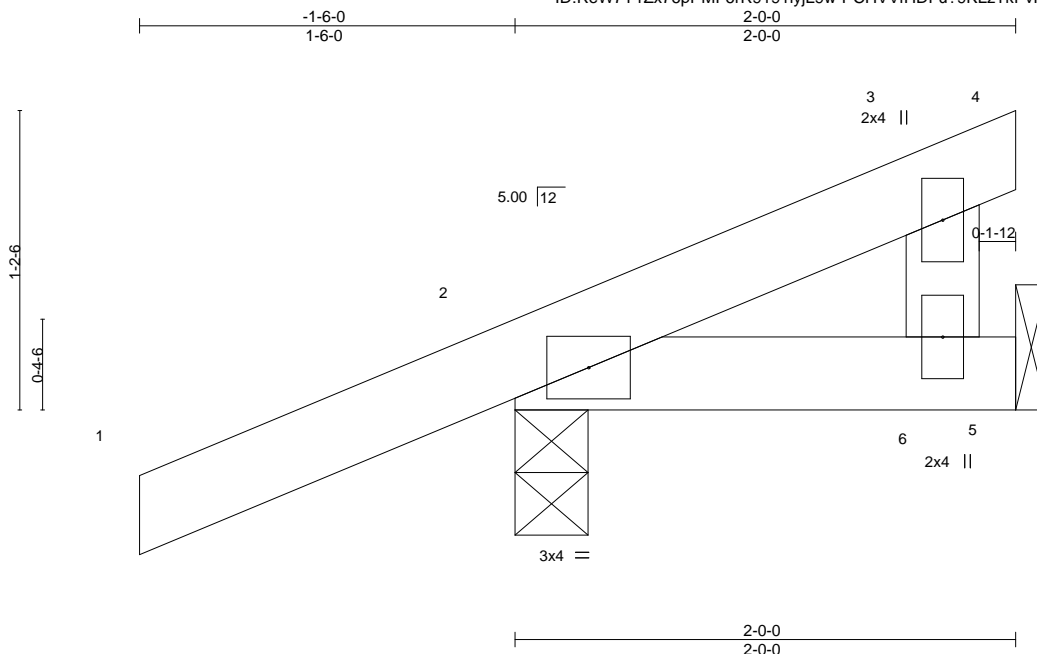
Job 2454743	Truss EJ01	Truss Type Jack-Open	Qty 8	Ply 1	IC CONST - ADAM'S RES. T21450597
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:41 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191ijjL9w-PCHVVfHDFu?9KLzTkPvPN5SKU7tUMOe4twvmAYyYSde



Scale = 1:9.2

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 0.16	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MP						Weight: 10 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 2-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

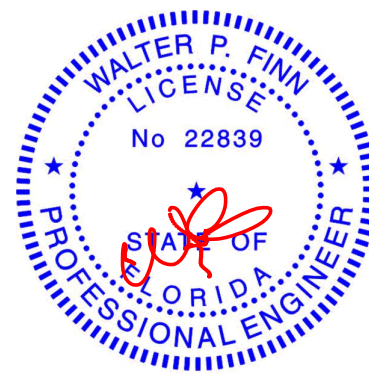
#### REACTIONS.

(size) 2=0-3-8, 5=Mechanical  
Max Horz 2=67(LC 12)  
Max Uplift 2=-109(LC 8), 5=-21(LC 12)  
Max Grav 2=184(LC 1), 5=46(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=109.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

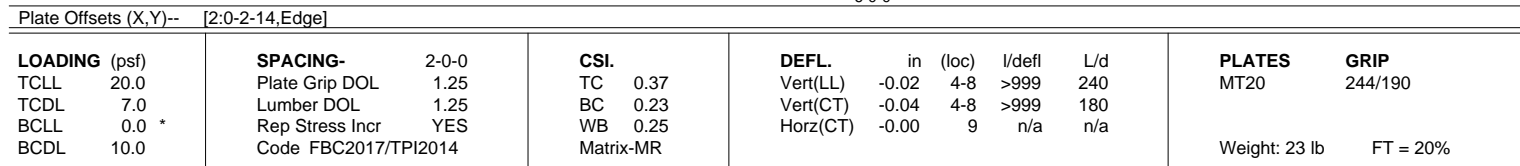
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



6904 Parke East Blvd.  
Tampa, FL 33610


8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:43 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-LaPFwLJTnVFsZf7srqytTWXcxjvwqFRNKEOIeRYsdc  
-1-6-0 6-0-0  
1-6-0 6-0-0  
Scale = 1:14.5

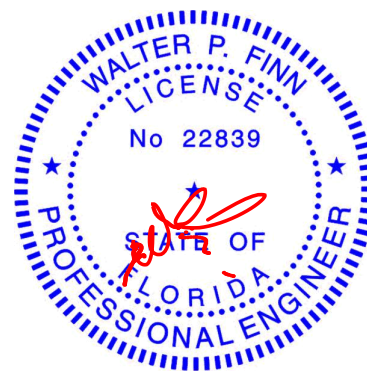


**REACTIONS.** (size) 2=0-3-8, 9=0-2-0  
 Max Horz 2=94(LC 8)  
 Max Uplift 2=-194(LC 8), 9=-94(LC 12)  
 Max Grav 2=309(LC 1), 9=183(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=194.
- 



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

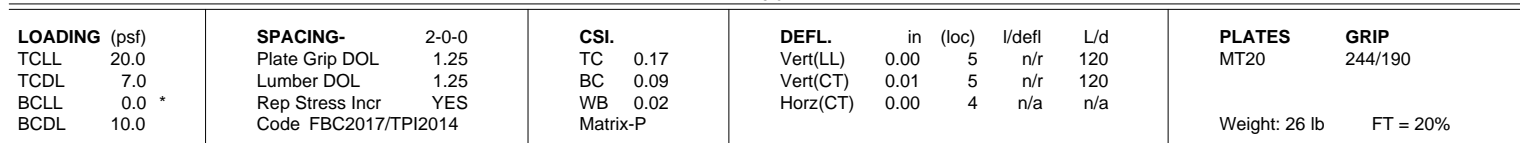


Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
Tampa, FL 36610

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:43 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191jyl9w-LaPFwLJTnVfSzf7srqytWXfqxX0ql0NKEOtERyYsdc  
3-9-0 7-6-0  
3-9-0 3-9-0  
4x4 = Scale = 1:18.5



**REACTIONS.** (size) 2=6-1-5, 4=6-1-5, 6=6-1-5  
 Max Horz 2=-83(LC 10)  
 Max Uplift 2=-79(LC 12), 4=-90(LC 13), 6=-36(LC 12)  
 Max Grav 2=150(LC 1), 4=150(LC 1), 6=199(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 30, 2020



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
Tampa, FL 36610

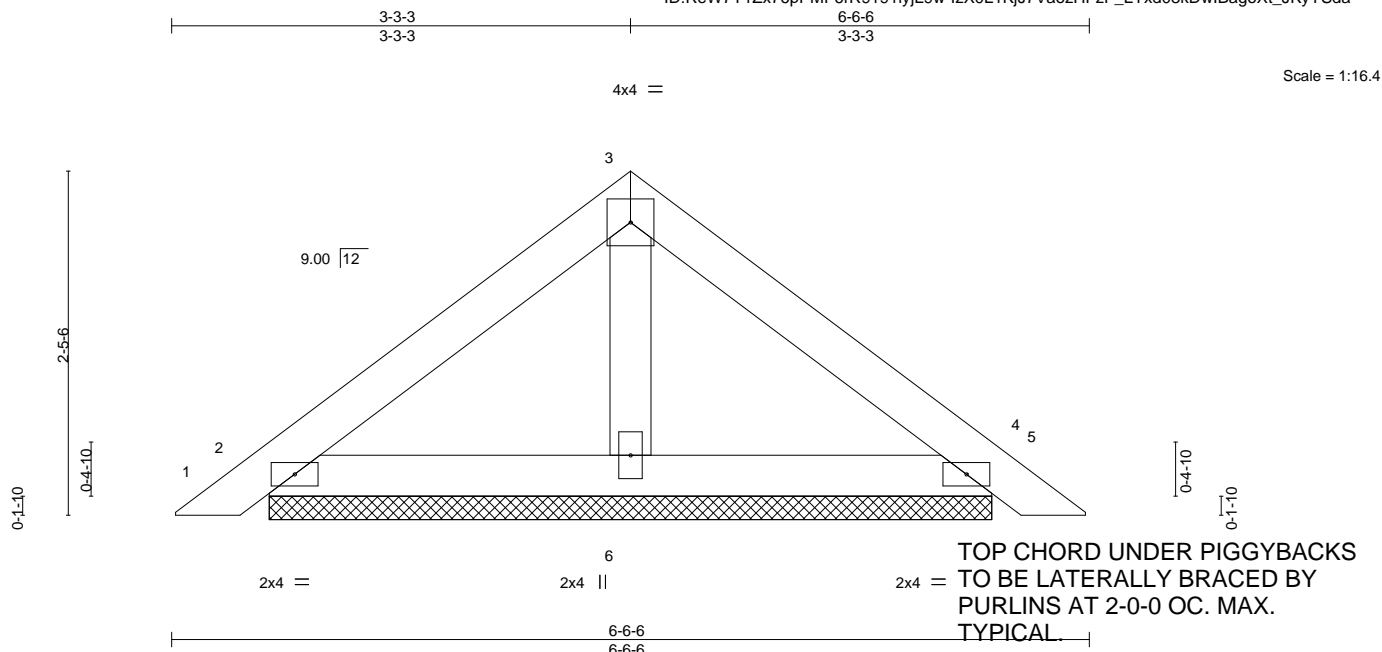
Job 2454743	Truss PB01G	Truss Type GABLE	Qty 2	Ply 1	IC CONST - ADAM'S RES. T21450600
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:45 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-lzX0L1KjJ7VaozHFzF\_LYxd08kDwIBagoXt\_JKyYSda



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 0.12	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

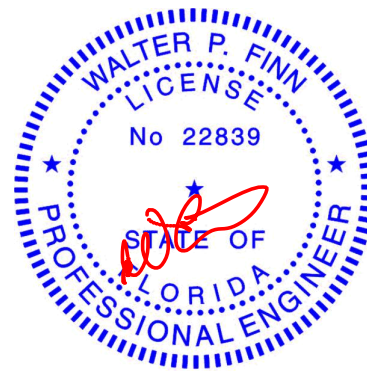
#### REACTIONS.

(size) 2=5-1-11, 4=5-1-11, 6=5-1-11  
Max Horz 2=-72(LC 10)  
Max Uplift 2=-70(LC 12), 4=-79(LC 13), 6=-30(LC 12)  
Max Grav 2=131(LC 1), 4=131(LC 1), 6=166(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610



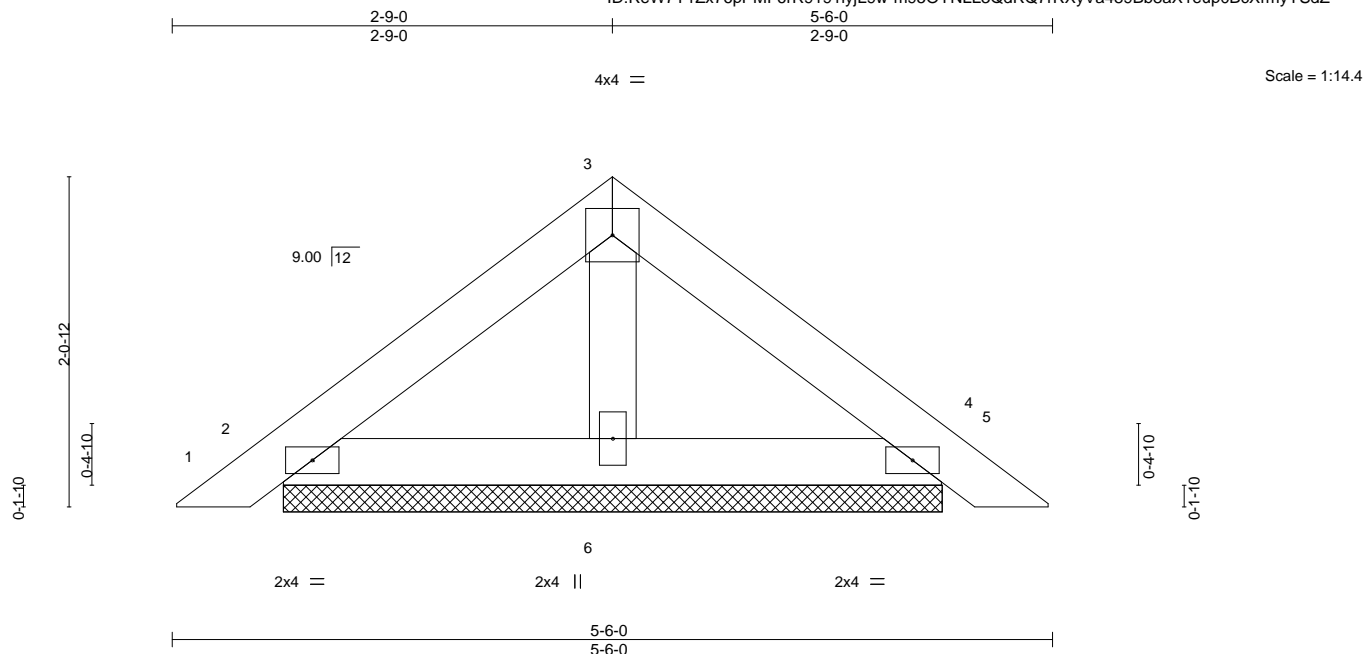
Job 2454743	Truss PB02	Truss Type PIGGYBACK	Qty 12	Ply 1	IC CONST - ADAM'S RES. T21450601
----------------	---------------	-------------------------	-----------	----------	-------------------------------------

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:46 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191yJL9w-m95OYNLL3QdRQ7rRXyVa489Bb8aX1eup0BcXrmyYSdZ



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 0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

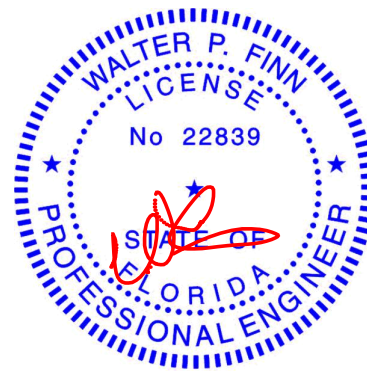
#### REACTIONS.

(size) 2=4-1-6, 4=4-1-6, 6=4-1-6  
Max Horz 2=-60(LC 10)  
Max Uplift 2=-59(LC 12), 4=-67(LC 13), 6=-22(LC 12)  
Max Grav 2=110(LC 1), 4=110(LC 1), 6=132(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

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

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



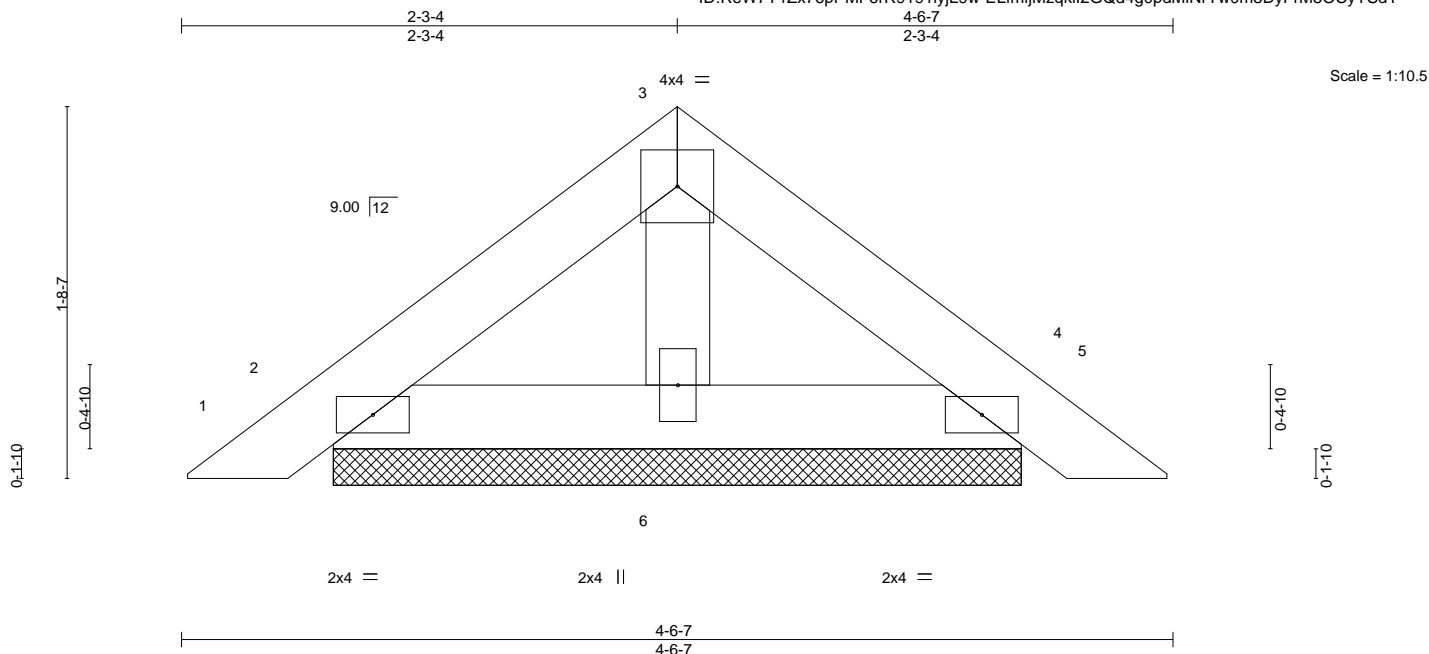
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2454743	Truss PB02G	Truss Type PIGGYBACK	Qty 1	Ply 1	IC CONST - ADAM'S RES. T21450602
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:47 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191jL9w-ELfmijMzqklI2GQd4g0pdMiNrYw0m5DyFrM5OCyYSdY



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 0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						Weight: 14 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

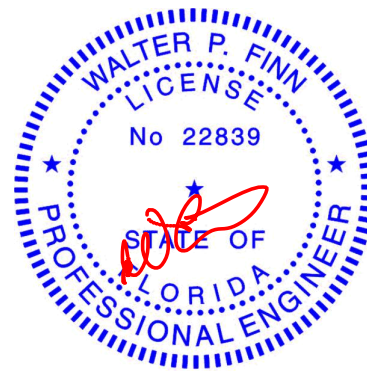
#### REACTIONS.

(size) 2=3-1-12, 4=3-1-12, 6=3-1-12  
Max Horz 2=-48(LC 10)  
Max Uplift 2=-50(LC 12), 4=-56(LC 13), 6=-15(LC 12)  
Max Grav 2=91(LC 1), 4=90(LC 1), 6=99(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

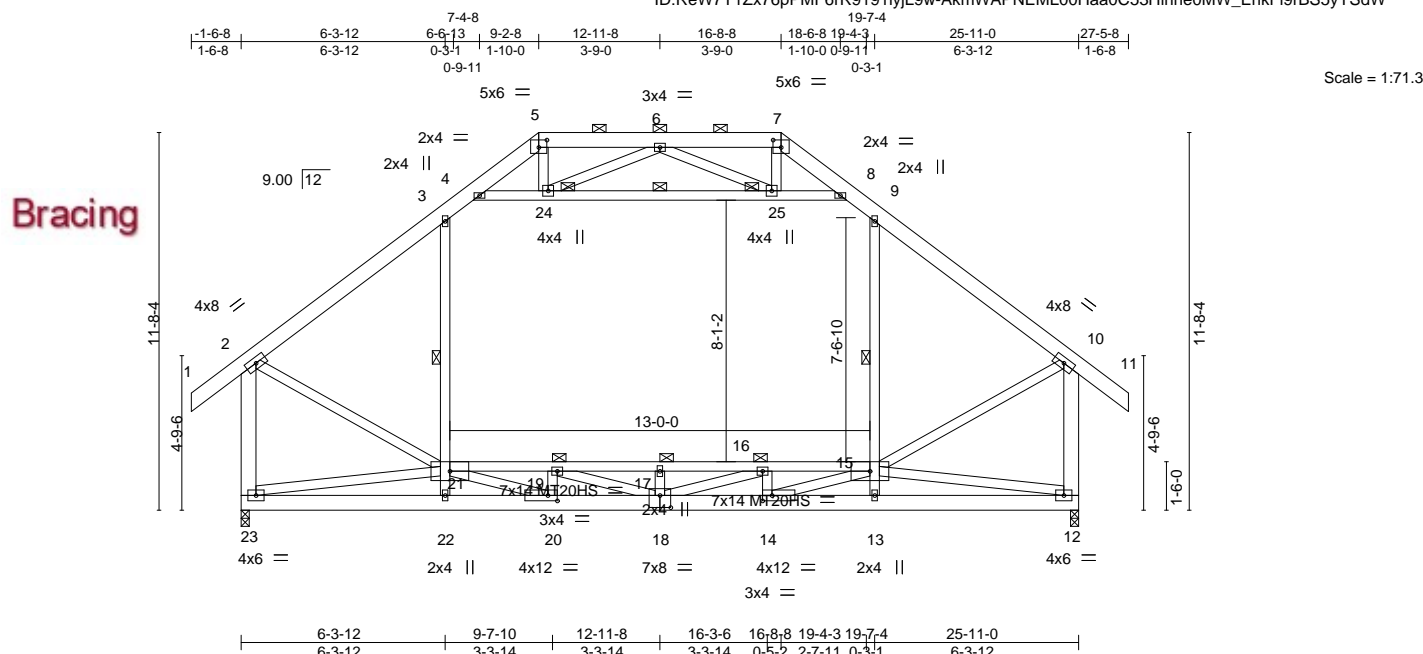


Plate Offsets (X,Y)--												
[5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [14:0-3-8,0-2-0], [18:0-4-0,0-4-8], [20:0-3-8,0-2-0]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES GRIP</b>		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.08	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.15	16-17	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.06	15-21	2475	360	Weight: 297 lb	FT = 20%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	2x6 SP M 26 *Except*		
	15-21: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 3-21, 9-15, 24-25
	2-23,10-12: 2x6 SP No.2	JOINTS	1 Brace at Jt(s): 24, 25, 17, 19, 16

**REACTIONS.** (size) 23=0-3-0, 12=0-3-0  
 Max Horz 23=465(LC 11)  
 Max Uplift 23=-128(LC 12), 12=-128(LC 13)  
 Max Grav 23=1688(LC 2), 12=1688(LC 2)

ATTIC FLOOR MAY BE BRACED BY STRUCTURAL SHEATHING  
DIRECTLY APPLIED IN LIEU OF PURLINS SHOWN. TYPICAL.

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

**TOP CHORD**  
2-3=-1496/191, 3-4=-1113/335, 4-5=-493/245, 5-6=-343/236, 6-7=-343/239,  
7-8=-493/247, 8-9=-1113/336, 9-10=-1496/189, 2-23=-1663/314, 10-12=-1663/325

**BOT CHORD**  
22-23=-858/759, 20-22=-896/748, 18-20=-259/1805, 14-18=0/1547, 13-14=-555/425,  
12-13=-517/421, 19-21=-599/175, 17-19=-1139/0, 16-17=-1139/0, 15-16=-702/303

**WEBS**  
21-22=0/277, 3-21=-44/589, 13-15=0/277, 9-15=-44/589, 4-24=-1040/146,  
24-25=-896/22, 8-25=-1054/152, 2-21=-49/1293, 10-15=-66/1307, 6-24=-302/219,  
6-25=-302/220, 17-18=-372/0, 19-20=-654/15, 20-21=0/1902, 18-19=-241/848,  
14-16=-654/19, 14-15=0/1902, 16-18=-256/860, 21-23=-344/445, 12-15=470/562

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-24, 24-25, 8-25; Wall dead load (5.0psf) on member(s). 3-21, 9-15
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 17-19, 16-17, 15-16
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=128, 12=128.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 26620 Crain Highway, Suite 203, Waldorf, MD 20601



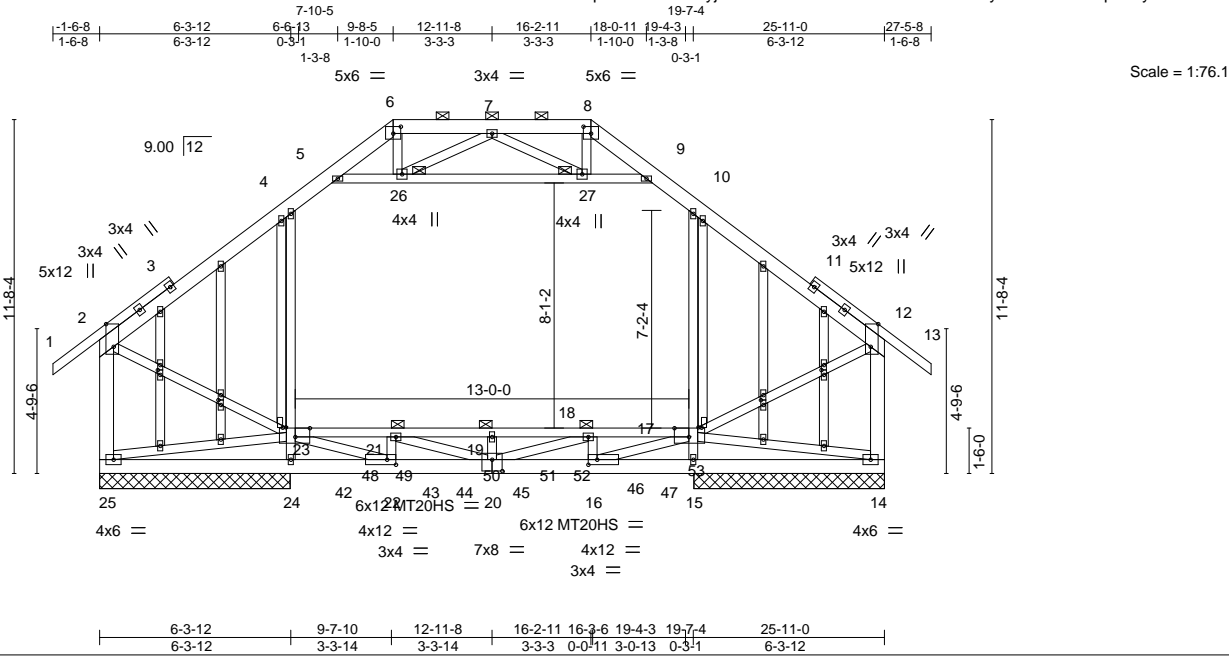
6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450604
2454743	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Wed Sep 30 11:21:53 2020
Page 1

ID:ReW7Y1Zx76pPMF6rR9191ijjL9w-3V010mQkQaWSmBunRw7EtdyMYzsAAc5rdnpPbsyYSdS



Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450604
2454743	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:53 2020 Page 2
ID:ReW7Y1Zx76pPMF6rR9191yjL9w-3V010mQkQaWSmBunRw7EtdyMYzsAAc5rdnpPbsyYSdS

- NOTES-**
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 25, 294 lb uplift at joint 24, 295 lb uplift at joint 15 and 155 lb uplift at joint 14.
  - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 30 lb up at 6-0-4, 26 lb down and 30 lb up at 8-0-4, 26 lb down and 30 lb up at 10-0-4, 26 lb down and 30 lb up at 12-0-4, 26 lb down and 30 lb up at 13-10-12, 26 lb down and 30 lb up at 15-10-12, and 26 lb down and 30 lb up at 17-10-12, and 26 lb down and 30 lb up at 19-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 15) Attic room checked for L/360 deflection.
  - 16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-25=-20, 17-23=-40, 5-9=-10

Drag: 4-23=-10, 10-17=-10

Concentrated Loads (lb)

Vert: 24=-13(F) 15=-13(F) 42=-13(F) 43=-13(F) 44=-13(F) 45=-13(F) 46=-13(F) 47=-13(F)



Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450605
2454743	T02	ATTIC	3	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:21:55 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191jL9w-?u8oRSS?yBm9?V2AYLAiy21bsmUleU4855IWgkyYSdQ

Job Reference (optional)

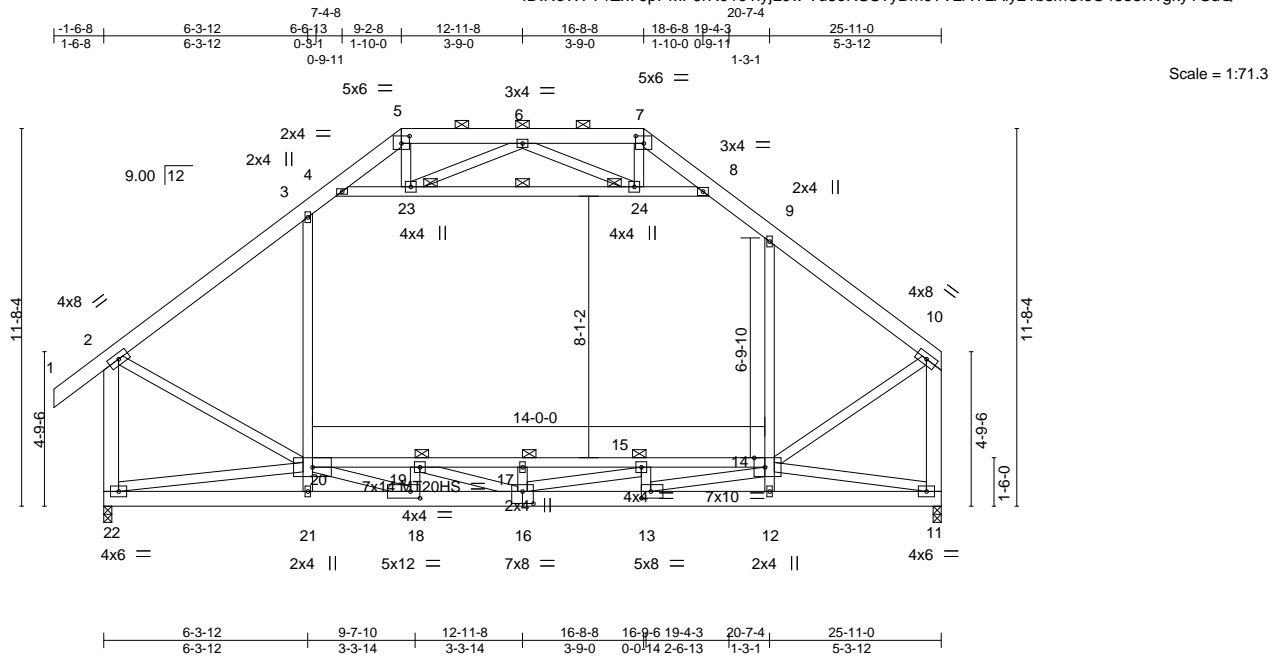


Plate Offsets (X,Y)-- [5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [13:0-3-8,0-2-8], [14:0-4-0,Edge], [16:0-4-0,0-4-8], [18:0-3-8,0-2-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>	<b>GRIP</b>
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.12 15-17 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.21 15-17 >999 180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.01 11 n/a n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.09 14-20 1866 360	Weight: 292 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP M 26 \*Except\*  
14-20: 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-22,10-11: 2x6 SP No.2, 13-14: 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 23-24  
JOINTS 1 Brace at Jt(s): 23, 24, 17, 19, 15

#### REACTIONS.

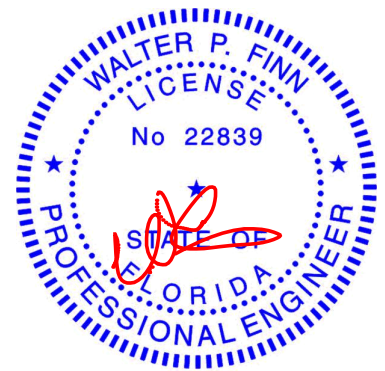
(size) 22=0-3-0, 11=0-3-0  
Max Horz 22=451(LC 9)  
Max Uplift 22=-124(LC 12), 11=-58(LC 13)  
Max Grav 22=1711(LC 2), 11=1690(LC 2)

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

TOP CHORD 2-3=-1512/176, 3-4=-1107/329, 4-5=-483/249, 5-6=-338/239, 6-7=-321/315,  
7-8=-478/299, 8-9=-1165/321, 9-10=-1518/138, 2-22=-1681/304, 10-11=-1729/194  
BOT CHORD 21-22=-838/759, 18-21=-861/748, 16-18=-253/1949, 13-16=0/1838, 12-13=-654/459,  
11-12=-614/455, 19-20=-755/152, 17-19=-1446/0, 15-17=-1446/0, 14-15=-964/227  
WEBS 20-21=0/277, 3-20=-28/639, 12-14=0/270, 9-14=-85/604, 4-23=-1057/122, 23-24=-985/5,  
8-24=-1214/101, 2-20=-50/1298, 10-14=-79/1348, 6-23=-290/246, 6-24=-352/207,  
16-17=-400/0, 18-19=-701/2, 18-20=0/2055, 16-19=-199/981, 13-15=-703/8,  
13-14=0/2340, 15-16=-288/877, 20-22=-370/439, 11-14=-500/663

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s).3-20, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 15-17, 14-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 22 and 58 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450606
2454743	T03	ATTIC	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Wed Sep 30 11:21:57 2020
Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-xHFYs8TFUp0tEpBYgmCA1T6ynaGz6S0RYPndkdyYSdO

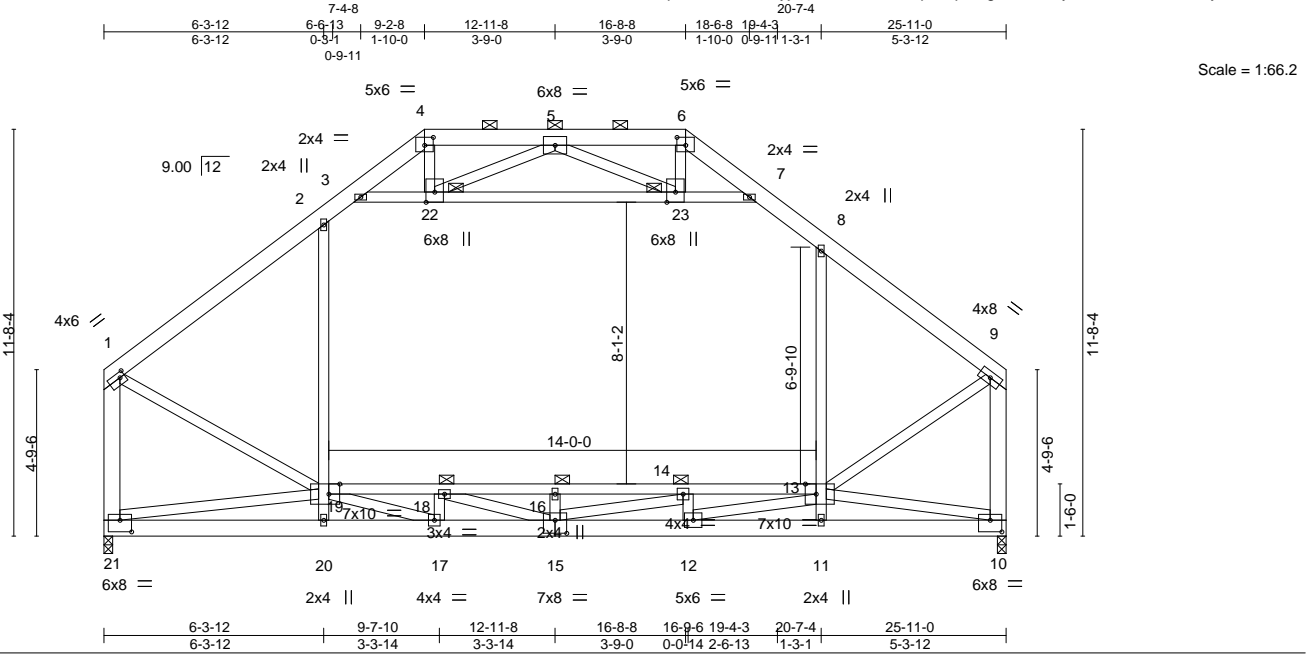


Plate Offsets (X,Y)--	[1:0-1-12,0-1-12], [4:0-3-0,0-2-12], [6:0-3-0,0-2-12], [10:0-4-0,0-4-0], [13:0-3-12,Edge], [15:0-4-0,0-4-8], [19:0-3-12,Edge], [21:0-4-0,0-4-0], [22:0-3-8,0-3-0], [23:0-3-8,0-3-0]
-----------------------	---

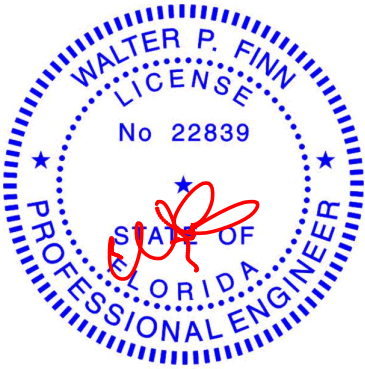
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.07 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.10 16-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.05 13-19	3436	360	Weight: 575 lb	FT = 20%

<b>LUMBER-</b>				<b>BRACING-</b>	
TOP CHORD	2x6 SP No.2			TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x6 SP M 26 *Except* 13-19: 2x4 SP No.2			BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* 3-7: 2x4 SP No.2, 1-21,9-10: 2x6 SP No.2			JOINTS	1 Brace at Jt(s): 22, 23, 16, 18, 14

<b>REACTIONS.</b>	(size) 21=0-3-0, 10=0-3-0
	Max Horz 21=-423(LC 32)
	Max Uplift 21=-1527(LC 12), 10=-1199(LC 13)
	Max Grav 21=4909(LC 42), 10=3823(LC 2)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-4120/1370, 2-3=-3843/1709, 3-4=-4330/2131, 4-5=-3592/1911, 5-6=-3861/2115, 6-7=-4484/2247, 7-8=-3820/1667, 8-9=-3616/1207, 1-21=-4489/1529, 9-10=-4016/1360
BOT CHORD	20-21=-1407/2341, 17-20=-1443/2361, 15-17=-732/3365, 12-15=-31/1745, 11-12=-1574/698, 10-11=-1502/691, 18-19=-1803/923, 16-18=-1687/753, 14-16=-1687/753, 13-14=-1423/1754
WEBS	2-19=-1435/988, 11-13=-5/310, 8-13=-1061/1121, 3-22=-2151/1085, 22-23=-3978/5641, 7-23=-2283/1136, 1-19=-1051/3126, 9-13=-1150/3385, 4-22=-1064/2293, 6-23=-978/2175, 5-22=-5224/2597, 5-23=-4968/2411, 15-16=-404/0, 17-18=-527/0, 17-19=0/1697, 15-18=-322/677, 12-14=-934/82, 12-13=-202/3055, 14-15=-549/1772, 19-21=-1958/1020, 10-13=-753/1584

<b>NOTES-</b>	
1)	2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2)	All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3)	Unbalanced roof live loads have been considered for this design.
4)	Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5)	Provide adequate drainage to prevent water ponding.
6)	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7)	* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8)	Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-22, 22-23, 7-23; Wall dead load (5.0psf) on member(s).2-19, 8-13
9)	Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 16-18, 14-16, 13-14



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 30,2020

<div> <div> WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. </div> <div> Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 </div> </div>	<div> <div> MiTek </div> <div> 6904 Parke East Blvd. Tampa, FL 33610 </div> </div>
---	--

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450606
2454743	T03	ATTIC	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.240 s Mar 9 2020 MiTek Industries, Inc.
Wed Sep 30 11:21:57 2020
Page 2
ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-xHFYs8TFUp0tEpBYgmCA1T6ynaGz6S0RYPndkdyYSdO

- NOTES-**
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1527 lb uplift at joint 21 and 1199 lb uplift at joint 10.
  - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4574 lb down and 2254 lb up at 12-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
  - 13) Attic room checked for L/360 deflection.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
    - Uniform Loads (plf)
      - Vert: 2-3=-64, 3-4=-54, 4-6=-54, 6-7=-54, 7-8=-64, 8-9=-54, 10-21=-20, 13-19=-40, 3-7=-10
      - Drag: 2-19=-10, 8-13=-10
    - Concentrated Loads (lb)
      - Vert: 5=-4574(B)
    - Trapezoidal Loads (plf)
      - Vert: 1=-229-to-2=-154



Job 2454743	Truss T04	Truss Type ATTIC	Qty 1	Ply 2	IC CONST - ADAM'S RES. T21450607
----------------	--------------	---------------------	----------	----------	-------------------------------------

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:00 2020 Page 1

ID:ReW7Y1Zx76pPMF6R9191ijL9w-LsxhU9W7mkOS5Gw7Lultf5kT6n9tJpwtEN?HLyyYsDL

Job Reference (optional)

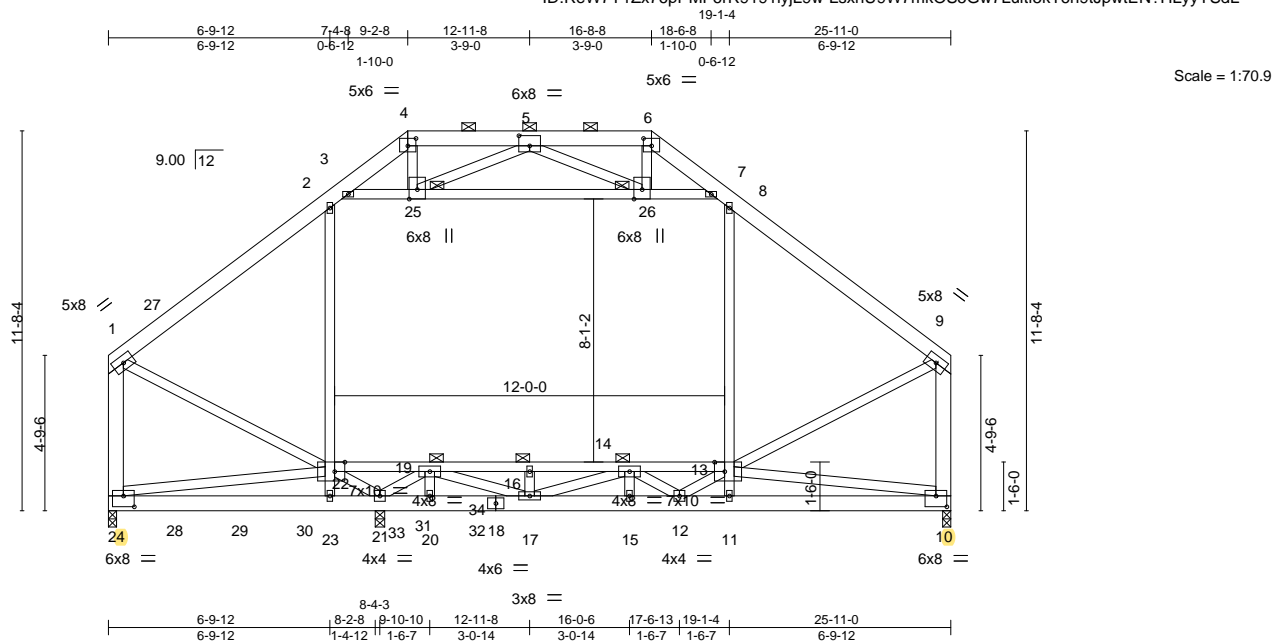


Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [5:0-4-0,0-3-12], [6:0-3-0,0-2-12], [10:0-4-0,0-4-0], [13:0-3-12,Edge], [22:0-3-12,Edge], [24:0-4-0,0-4-0], [25:0-3-8,0-3-0], [26:0-3-8,0-3-0]																			
<b>LOADING</b> (psf)		<b>SPACING-</b>		2-0-0		<b>CSI.</b>		<b>DEFL.</b>		in (loc)		l/defl		L/d		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL		1.25		TC 0.52		Vert(LL)		-0.03 14-16		>999		240		MT20		244/190	
TCDL	7.0	Lumber DOL		1.25		BC 0.87		Vert(CT)		-0.05 13-14		>999		180					
BCLL	0.0 *	Rep Stress Incr		NO		WB 0.75		Horz(CT)		0.01 10		n/a		n/a					
BCDL	10.0	Code FBC2017/TPI2014				Matrix-MS		Attic		-0.02 13-22		6501		360		Weight: 580 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP M 26 \*Except\*  
 13-22: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 3-7: 2x4 SP No.2, 1-24,9-10: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 23-24,21-23.  
 JOINTS 1 Brace at Jt(s): 25, 26, 16, 19, 14

#### REACTIONS.

(size) 24=0-3-0, 10=0-3-0, 21=0-3-8  
 Max Horz 24=-423(LC 6)  
 Max Uplift 24=-1457(LC 4), 10=-1200(LC 9), 21=-531(LC 5)  
 Max Grav 24=3983(LC 2), 10=3415(LC 21), 21=2193(LC 22)

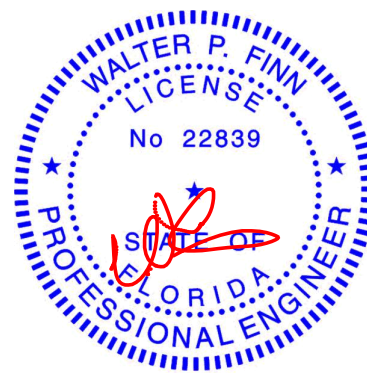
#### FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3474/1330, 2-3=-3536/1535, 3-4=-4082/1985, 4-5=-3287/1770, 5-6=-3486/1650,  
 6-7=-4189/1952, 7-8=-3490/1516, 8-9=-3099/1082, 1-24=-3736/1396, 9-10=-3117/1124  
 BOT CHORD 23-24=-918/713, 21-23=-959/749, 20-21=-210/982, 17-20=-210/982, 15-17=-217/2143,  
 12-15=-217/2143, 11-12=-519/1246, 10-11=-494/1224, 19-22=-518/2700, 16-19=-871/842,  
 14-16=-871/842, 13-14=-740/873  
 WEBS 22-23=-290/292, 2-22=-1795/1105, 8-13=-1121/779, 3-25=-1543/1000, 25-26=-3483/5751,  
 7-26=-1189/1067, 1-22=-1127/2608, 9-13=-843/2635, 4-25=-1042/2290,  
 6-26=-1005/2189, 5-25=-5215/2539, 5-26=-4996/2474, 16-17=-336/0, 19-20=-260/244,  
 21-22=-1252/909, 17-19=-71/1438, 12-13=0/934, 22-24=-587/520, 10-13=-1196/432,  
 19-21=-1983/0, 12-14=-742/36

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-2-0 oc.  
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-25, 25-26, 7-26; Wall dead load (5.0psf) on member(s).2-22, 8-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-22, 16-19, 14-16, 13-14

Continued on page 2



Walter P. Finn PE No.22839  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 30,2020

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

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



6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450607
2454743	T04	ATTIC	1	2	Job Reference (optional)	

- NOTES-**
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1457 lb uplift at joint 24, 1200 lb uplift at joint 10 and 531 lb uplift at joint 21.
  - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4560 lb down and 2219 lb up at 12-11-8 on top chord, and 143 lb down and 40 lb up at 2-0-4, 143 lb down and 40 lb up at 4-0-4, 143 lb down and 40 lb up at 6-0-4, 143 lb down and 40 lb up at 8-0-4, and 143 lb down and 40 lb up at 10-0-4, and 447 lb down and 70 lb up at 11-3-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 14) Attic room checked for L/360 deflection.

- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
    - Uniform Loads (plf)
      - Vert: 2-27=-54, 2-3=-64, 3-4=-54, 4-6=-54, 6-7=-54, 7-8=-64, 8-9=-54, 10-24=-20, 13-22=-40, 3-7=-10
      - Drag: 2-22=-10, 8-13=-10
    - Concentrated Loads (lb)
      - Vert: 5=-4560(B) 20=-9(F) 28=-9(F) 29=-9(F) 30=-9(F) 31=-9(F) 32=-67(F)
    - Trapezoidal Loads (plf)
      - Vert: 1=-229-to-27=-154



Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450608
2454743	T05	ATTIC	2	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:03 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191yL9w-mQdp6BY03fm1ykfi01JaGkM3b?GIW7IjwLExyHyYsdl

Job Reference (optional)

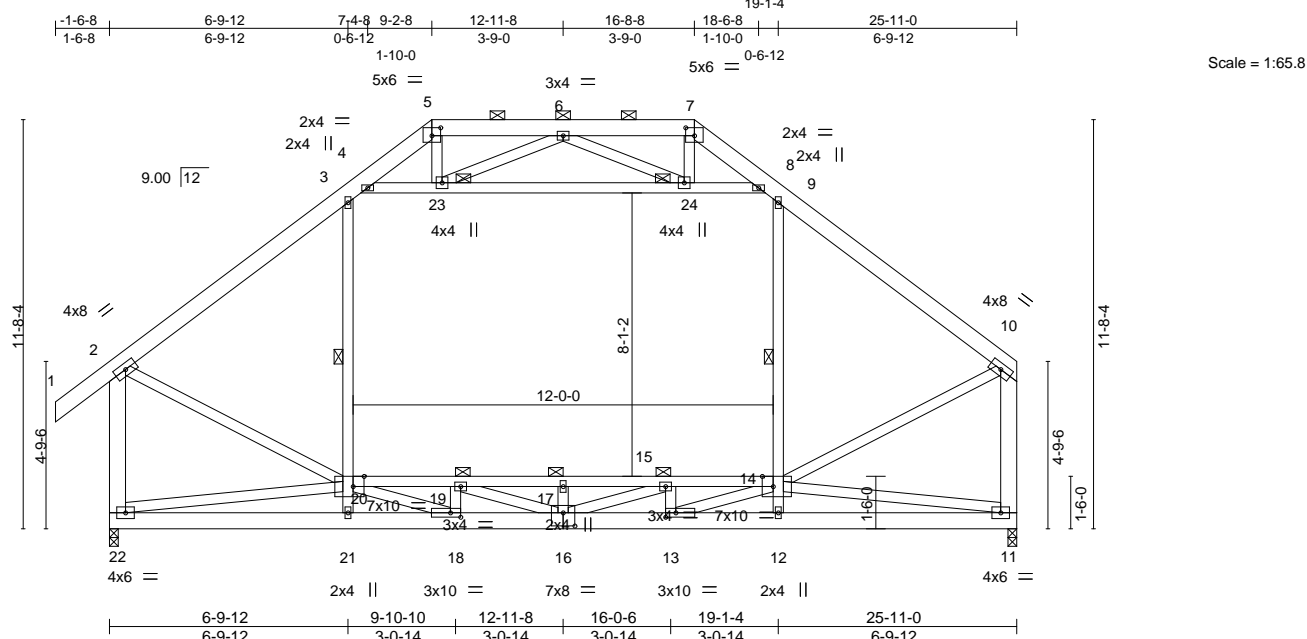


Plate Offsets (X,Y)--		[5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [13:0-3-8,0-1-8], [14:0-3-12,Edge], [16:0-4-0,0-4-8], [18:0-3-8,0-1-8], [20:0-3-12,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	<b>L/d</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.06 15-17	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.11 15-17	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.01 11	n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.05 14-20	3064	360
						Weight: 294 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP No.2  
 BOT CHORD 2x6 SP M 26 \*Except\*  
 14-20: 2x4 SP No.3  
 WEBS 2x4 SP No.3 \*Except\*  
 2-22,10-11: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 3-20, 9-14  
 JOINTS 1 Brace at Jt(s): 23, 24, 17, 19, 15

#### REACTIONS.

(size) 22=0-3-0, 11=0-3-0  
 Max Horz 22=451(LC 9)  
 Max Uplift 22=-133(LC 12), 11=-82(LC 13)  
 Max Grav 22=1639(LC 2), 11=1556(LC 2)

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

TOP CHORD 2-3=-1477/197, 3-4=-1088/331, 4-5=-507/209, 5-6=-358/186, 6-7=-345/177,  
 7-8=-498/202, 8-9=-1090/337, 9-10=-1470/181, 2-22=-1597/326, 10-11=-1506/237  
 BOT CHORD 21-22=-816/732, 18-21=-846/721, 16-18=-299/1595, 13-16=-21/1379, 12-13=-505/420,  
 11-12=-480/431, 19-20=-419/203, 17-19=-873/0, 15-17=-873/0, 14-15=-534/309  
 WEBS 20-21=0/285, 3-20=-43/556, 12-14=0/284, 9-14=-59/550, 4-23=-938/192, 23-24=-813/60,  
 8-24=-952/215, 2-20=-48/1266, 10-14=-75/1259, 6-23=-281/214, 6-24=-289/232,  
 16-17=-344/0, 18-19=-606/26, 13-15=-602/34, 18-20=-29/1646, 16-19=-242/772,  
 13-14=-43/1628, 15-16=-269/756, 20-22=-343/410, 11-14=-486/529

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s).3-20, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 15-17, 14-15
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 22 and 82 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



Walter P. Finn PE No.22839  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

September 30,2020

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

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



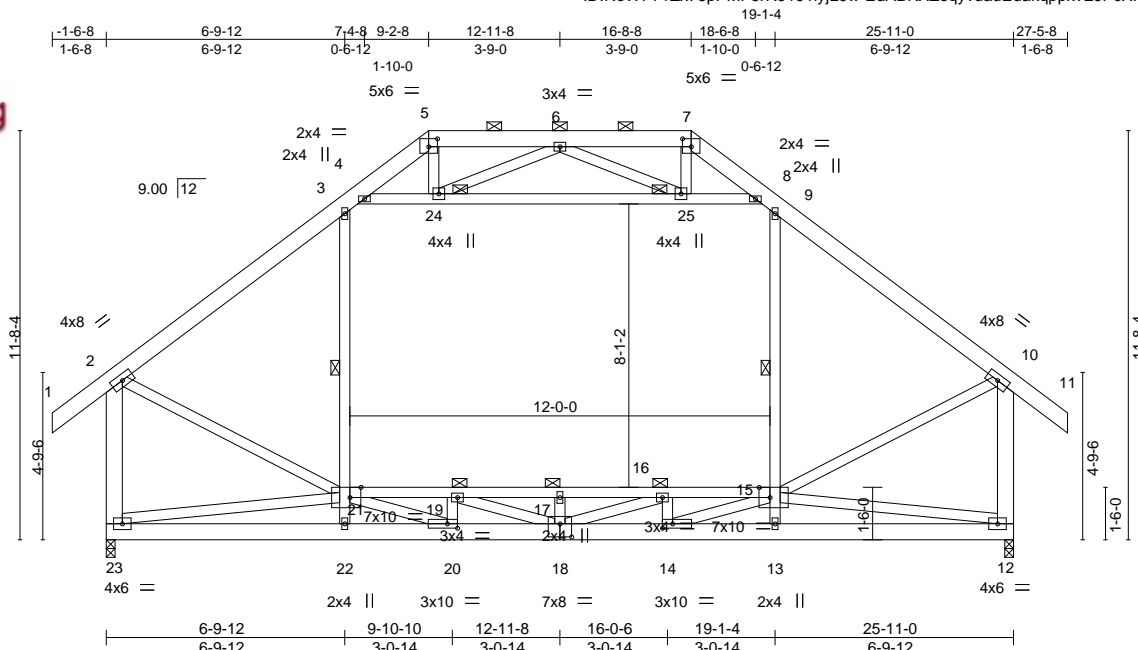
6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450609
2454743	T06	Attic	3	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:04 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191ijL9w-EdABKXZe9yvuauEuakppxvEJPcXFa6S9?zUUjYsDh

Bracing



Scale = 1:65.8

Plate Offsets (X,Y)--	[5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [14:0-3-8,0-1-8], [15:0-3-12,Edge], [18:0-4-0,0-4-8], [20:0-3-8,0-1-8], [21:0-3-12,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	L/defl
TCLL 20.0	Plate Grip DOL	1.25	TC 0.25	Vert(LL)	-0.06 16-17	>999 240
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.11 16-17	>999 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.01 12	n/a n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.05 15-21	3064 360
			<b>PLATES</b>		<b>GRIP</b>	
			MT20		244/190	
			Weight: 298 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP M 26 \*Except\*  
15-21: 2x4 SP No.3  
WEBS 2x4 SP No.3 \*Except\*  
2-23,10-12: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 3-21, 9-15  
JOINTS 1 Brace at Jt(s): 24, 25, 17, 19, 16

#### REACTIONS.

(size) 23=0-3-0, 12=0-3-0  
Max Horz 23=465(LC 11)  
Max Uplift 23=-137(LC 12), 12=-137(LC 13)  
Max Grav 23=1637(LC 2), 12=1637(LC 2)

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

TOP CHORD 2-3=-1471/206, 3-4=-1084/340, 4-5=-508/208, 5-6=-360/185, 6-7=-360/185,  
7-8=-508/208, 8-9=-1084/341, 9-10=-1471/204, 2-23=-1591/331, 10-12=-1591/341  
BOT CHORD 22-23=-811/761, 20-22=-848/749, 18-20=-283/1619, 14-18=0/1360, 13-14=-506/414,  
12-13=-476/418, 19-21=-428/198, 17-19=-874/0, 16-17=-874/0, 15-16=-531/325  
WEBS 21-22=0/284, 3-21=-45/554, 13-15=0/284, 9-15=-45/554, 4-24=-928/195, 24-25=-803/57,  
8-25=-940/201, 2-21=-51/1260, 10-15=-67/1274, 6-24=-285/220, 6-25=-285/220,  
17-18=-344/0, 19-20=-603/27, 14-16=-606/32, 20-21=-34/1636, 18-19=-247/760,  
14-15=-36/1638, 16-18=-262/772, 21-23=-348/406, 12-15=-468/522

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-24, 24-25, 8-25; Wall dead load (5.0psf) on member(s).3-21, 9-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 17-19, 16-17, 15-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 23 and 137 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610





Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450611
2454743	T07G	GABLE	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:08 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191yL9w-6OQiAuc9uBPJ3VXgpaulzn4uE0xZBWc24cxidUyYSdD

-1-6-8 4-9-0 9-8-5 12-11-8 16-2-11 21-2-0 25-11-0 27-5-8  
1-6-8 4-9-0 4-11-5 3-3-3 3-3-3 4-11-5 4-9-0 1-6-8

Scale = 1:67.7

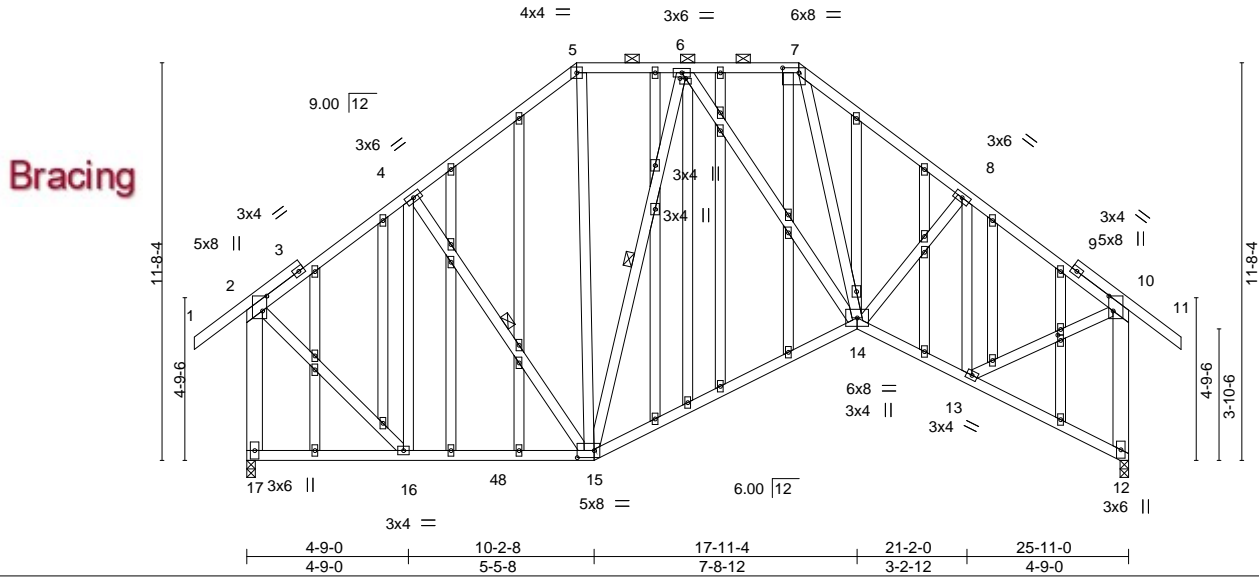


Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [6:0-2-0,0-0-0], [7:0-5-12,0-1-12], [7:0-0-0,0-1-12], [10:0-5-4,0-1-8], [15:0-6-0,0-2-8], [21:0-1-14,0-1-0], [28:0-1-12,0-0-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL 1.25		TC	0.32	Vert(LL)	-0.15 14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.63	Vert(CT)	-0.31 14-15	>973	180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.38	Horz(CT)	0.05 12	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 360 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
2-17,10-12: 2x6 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING-

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

#### REACTIONS.

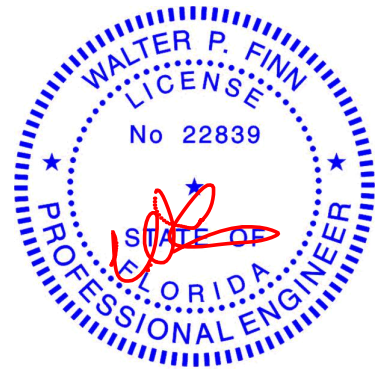
(size) 17=0-3-0, 12=0-3-0  
Max Horz 17=-465(LC 10)  
Max Uplift 17=-370(LC 12), 12=-370(LC 13)  
Max Grav 17=1038(LC 1), 12=1038(LC 1)

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

TOP CHORD 2-4=-640/410, 4-5=-722/516, 5-6=-634/488, 6-7=-836/549, 7-8=-1132/667, 8-10=-878/470, 2-17=-997/569, 10-12=-1002/597  
BOT CHORD 16-17=-430/402, 15-16=-371/643, 14-15=-364/703, 13-14=-363/863  
WEBS 4-16=-340/206, 6-15=-402/158, 6-14=-92/254, 7-14=-234/501, 8-14=-189/262, 8-13=-580/289, 2-16=-244/630, 10-13=-299/728

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 370 lb uplift at joint 17 and 370 lb uplift at joint 12.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

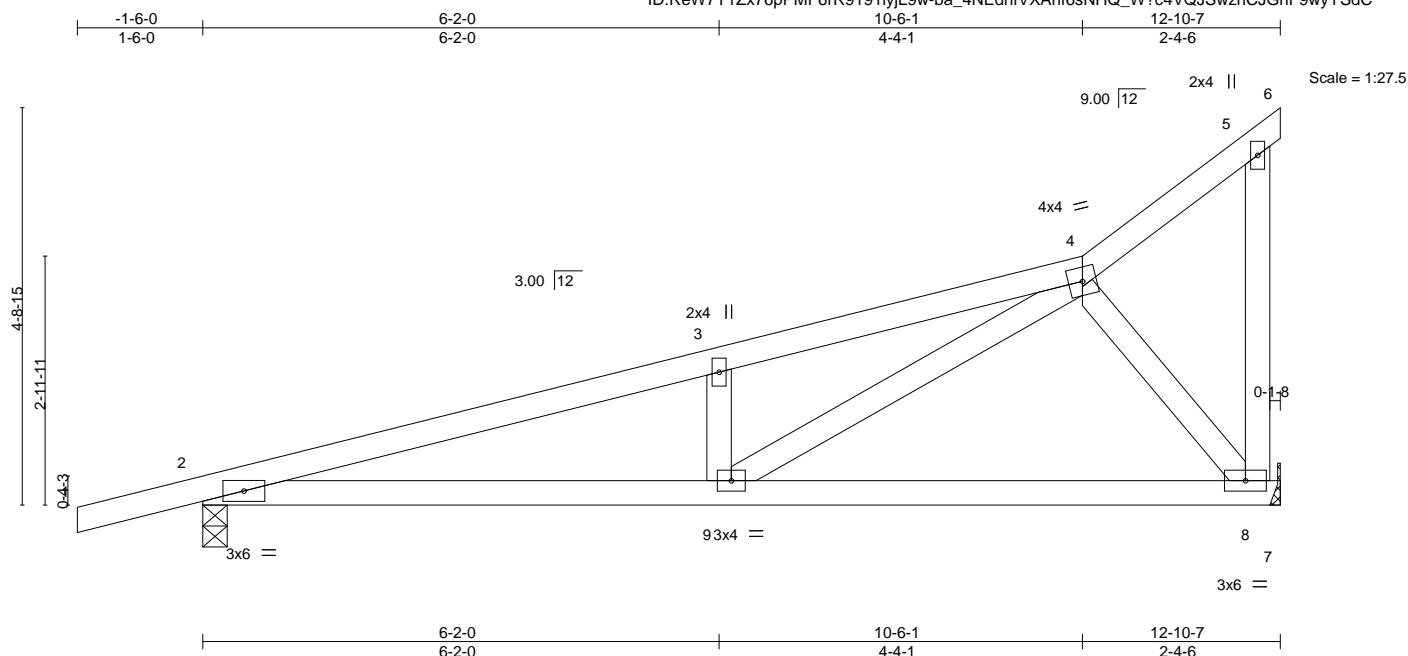
Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450612
2454743	T08	Jack-Closed	6	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:09 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191ijL9w-ba\_4NEdnfVXAhf6sNHQ\_W?c4VQJSwzhCJGhF9wyYSdC



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 0.29	Vert(LL)	0.07 9-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.11 8-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.33	Horz(CT)	0.01 8	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 62 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 5-2-7 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 7-1-0 oc bracing.

#### REACTIONS.

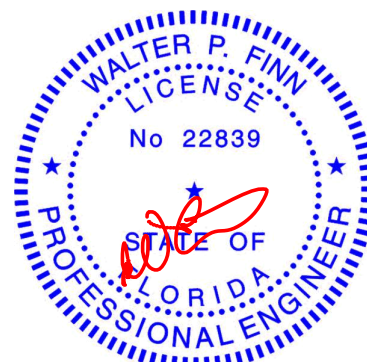
(size) 2=0-3-8, 8=Mechanical  
Max Horz 2=232(LC 12)  
Max Uplift 2=294(LC 8), 8=265(LC 12)  
Max Grav 2=552(LC 1), 8=471(LC 1)

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

TOP CHORD 2-3=-1084/487, 3-4=-1096/570  
BOT CHORD 2-9=-659/1031, 8-9=-200/294  
WEBS 3-9=-301/304, 4-9=-541/865, 4-8=-462/327

#### NOTES-

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 294 lb uplift at joint 2 and 265 lb uplift at joint 8.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450613
2454743	T08G	MONO TRUSS	2	1	Job Reference (optional)	

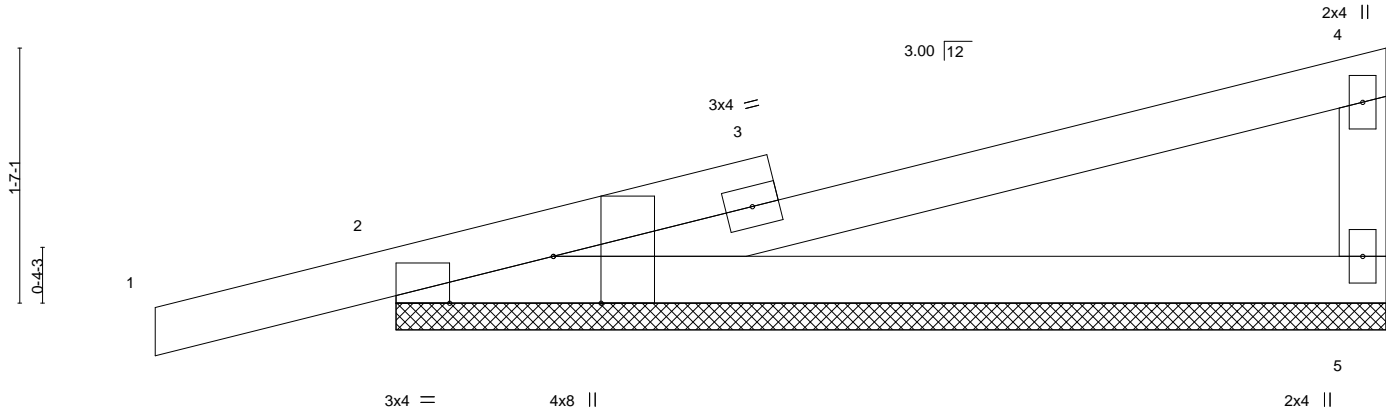
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:10 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191yL9w-3nYTadPQof1lph2x?x3D3C9BRpfXfV3LXwQpiNyYSdB



Scale = 1:14.4



6-2-0									
6-2-0									
Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-7-12,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.01 1 n/r	120	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	0.01 1 n/r	120	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 n/a	n/a	
BCDL	10.0	Code FBC2017/TPI2014		Matrix-P					
								Weight: 25 lb	FT = 20%

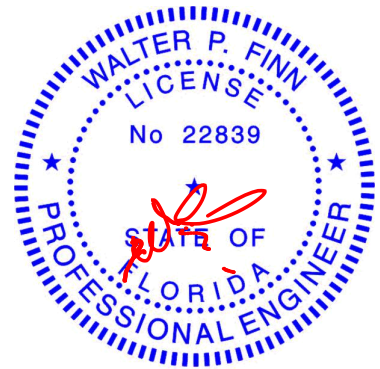
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

**REACTIONS.** (size) 2=6-2-0, 5=6-2-0  
Max Horz 2=84(LC 8)  
Max Uplift 2=198(LC 8), 5=106(LC 12)  
Max Grav 2=314(LC 1), 5=213(LC 1)

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

#### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 2 and 106 lb uplift at joint 5.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450614
2454743	T09	Scissor	1	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:11 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR91iyjL9w-Xz5rowe1B6nuwzGEUiSSbQiOqD0yOrVUmaAMEpyYSdA

-1-6-8	4-10-14	9-11-8	15-0-2	19-11-0	21-5-8
1-6-8	4-10-14	5-0-10	5-0-10	4-10-14	1-6-8

4x4 =

Scale = 1:51.3

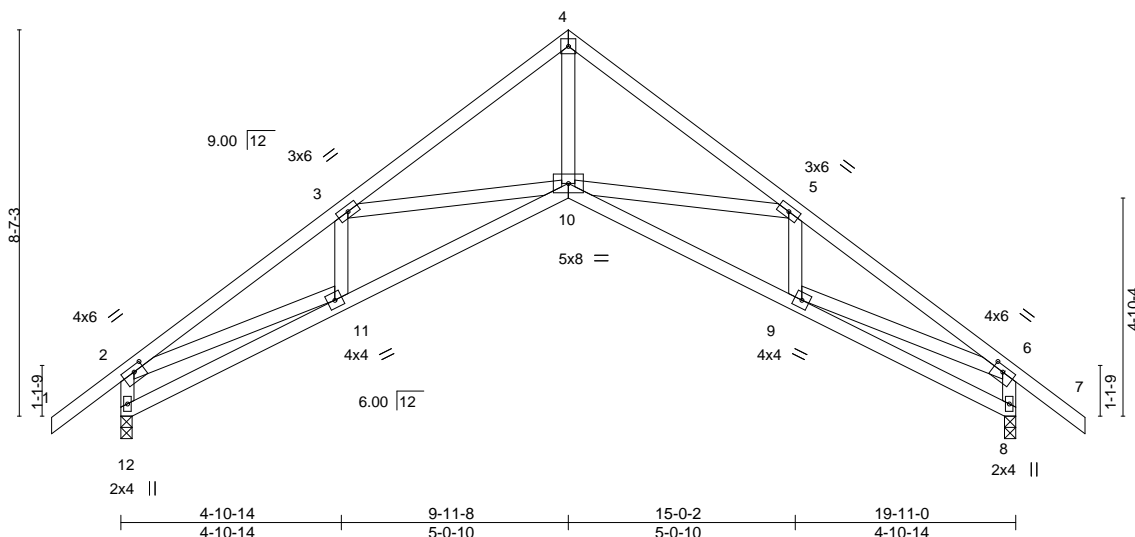


Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [6:0-2-12,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	-0.09	10	>999	240	
TCDL 7.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.18	9-10	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.20	8	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS						
								Weight: 118 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-9-1 oc bracing: 10-11.

#### REACTIONS.

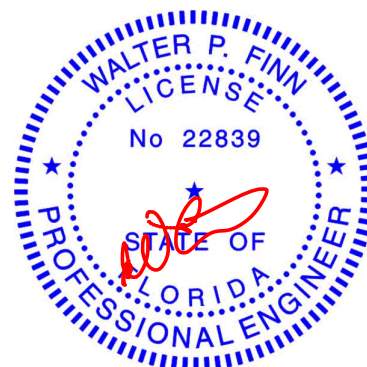
(size) 12=0-3-0, 8=0-3-0  
Max Horz 12=-319(LC 10)  
Max Uplift 12=-317(LC 12), 8=-317(LC 13)  
Max Grav 12=817(LC 1), 8=817(LC 1)

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

TOP CHORD 2-3=-1714/627, 3-4=-1419/379, 4-5=-1465/420, 5-6=-1666/557, 2-12=-853/422, 6-8=-807/434  
BOT CHORD 11-12=-322/429, 10-11=-580/1693, 9-10=-323/1491, 8-9=-44/270  
WEBS 4-10=-322/1425, 5-10=-438/443, 3-10=-450/391, 2-11=-346/1243, 6-9=-310/1223

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 12 and 317 lb uplift at joint 8.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610





Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450616
2454743	T10	Roof Special	6	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:14 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-xYnzQyvhvT19TnQ\_pAr?9D2KruR3abENxSYO0r8yYSd7

Job Reference (optional)

-1-6-0	6-2-0	10-3-8	13-6-0	20-0-0	25-0-10	30-0-0
1-6-0	6-2-0	4-1-8	3-2-8	6-6-0	5-0-10	4-11-6

Scale = 1:58.1

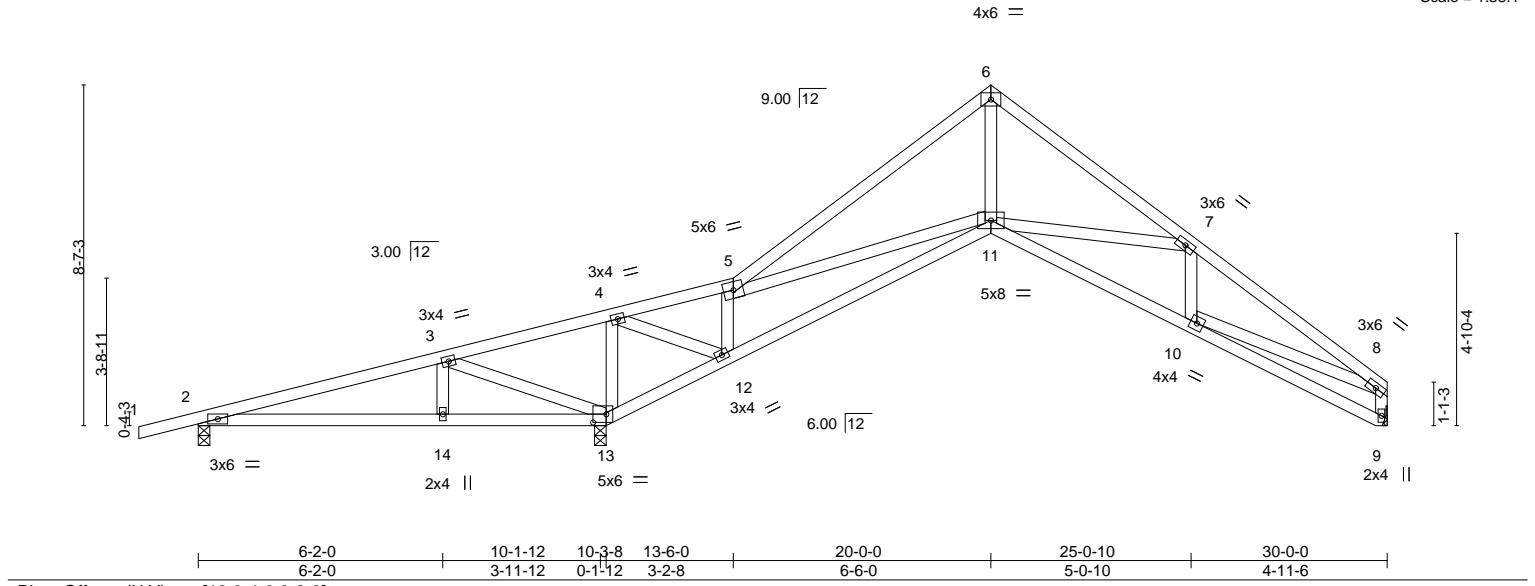


Plate Offsets (X,Y)--		[13:0-4-0,0-2-8]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.09 14-17	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.33	Vert(CT)	-0.17 11-12				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.11 9				
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 154 lb		FT = 20%	

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-9-11 oc bracing.

#### REACTIONS.

(size) 2=0-3-8, 13=0-3-8, 9=Mechanical  
Max Horz 2=281(LC 9)  
Max Uplift 2=384(LC 8), 13=619(LC 12), 9=242(LC 13)  
Max Grav 2=273(LC 23), 13=1458(LC 1), 9=600(LC 1)

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

TOP CHORD 2-3=-126/621, 3-4=-516/959, 5-6=-1003/219, 6-7=-992/293, 7-8=-1342/483, 8-9=-607/290  
BOT CHORD 2-14=-493/127, 13-14=-493/127, 12-13=-980/608, 11-12=-87/347, 10-11=-340/1154  
WEBS 3-14=-279/243, 3-13=-783/988, 4-13=-708/333, 4-12=-368/924, 5-12=-667/358, 5-11=-101/693, 6-11=-100/795, 7-11=-490/451, 8-10=-249/957

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
- 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 384 lb uplift at joint 2, 619 lb uplift at joint 13 and 242 lb uplift at joint 9.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450617
2454743	T10G	GABLE	1	1		

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

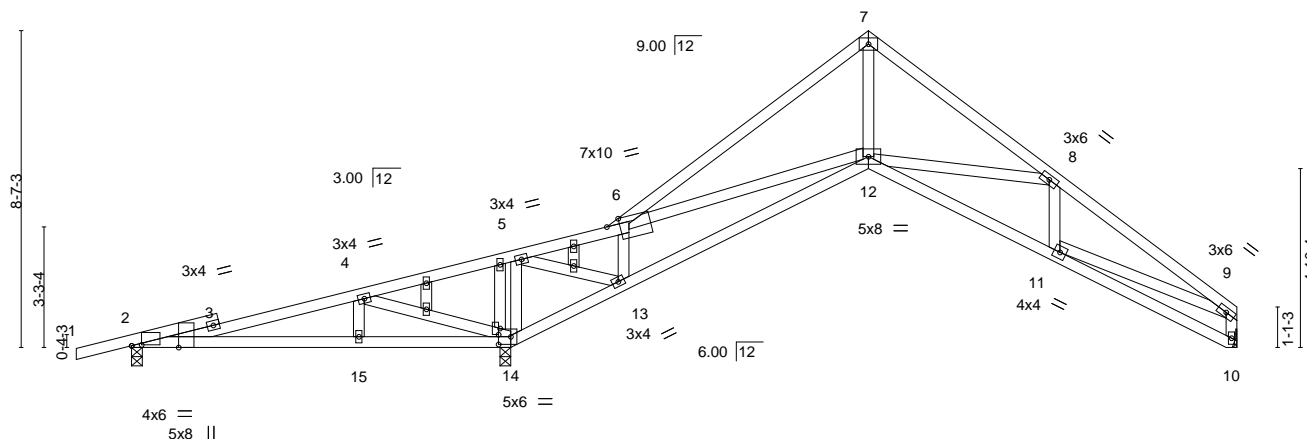
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:15 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191yJL9w-PkLMelhYELHKPaZ0jYWomGs\_IqOuKg54hC8ZNayYSd6

1-6-0	6-2-0	10-3-8	13-6-0	20-0-0	25-0-10	30-0-0
1-6-0	6-2-0	4-1-8	3-2-8	6-6-0	5-0-10	4-11-6

4x6 =

Scale = 1:62.5



6-2-0	10-1-12	10-3-8	13-6-0	20-0-0	25-0-10	30-0-0
6-2-0	3-11-12	0-1-12	3-2-8	6-6-0	5-0-10	4-11-6

Plate Offsets (X,Y)-- [2:0-3-4,0-0-5], [2:0-0-9,Edge], [6:0-4-4,0-1-12], [14:0-4-0,0-2-8], [14:0-2-0,0-0-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	0.10 15-23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.17 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.11 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS					Weight: 160 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 3-7-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing.

#### REACTIONS.

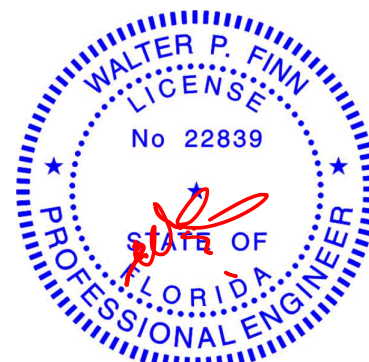
(size) 2=0-3-8, 14=0-3-8, 10=Mechanical  
Max Horz 2=279(LC 9)  
Max Uplift 2=-363(LC 8), 14=-610(LC 12), 10=-241(LC 13)  
Max Grav 2=276(LC 23), 14=1433(LC 1), 10=607(LC 1)

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

TOP CHORD 2-4=-156/584, 4-5=-682/1014, 5-6=-328/119, 6-7=-1051/225, 7-8=-1067/303, 8-9=-1362/453, 9-10=-619/282  
BOT CHORD 2-15=-453/136, 14-15=-453/136, 13-14=-1034/772, 12-13=-76/573, 11-12=-313/1171  
WEBS 4-15=-265/228, 4-14=-818/1076, 5-14=-695/328, 5-13=-436/1051, 6-13=-651/359, 6-12=-227/710, 7-12=-106/897, 8-12=-478/449, 9-11=-224/973

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2, 610 lb uplift at joint 14 and 241 lb uplift at joint 10.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

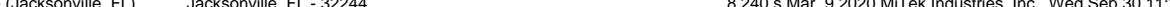
September 30,2020

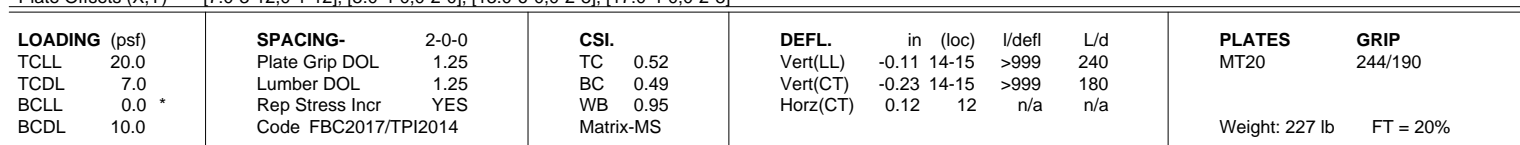
**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**

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



6904 Parke East Blvd.  
Tampa, FL 33610

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:16 2020 Page 1  
 ID:ReW7Y1Zx76PMF6rR919tIyJL9w-txvkrdiA?ePB0k8CHG2dITPC8Eic3?oEwst7v1yYSd5  
  
 Scale = 1:67.2



**REACTIONS.** (size) 2=0-3-8, 17=0-3-8, 12=0-3-8  
 Max Horz 2=405(LC 11)  
 Max Uplift 2=-391(LC 8), 17=-685(LC 12), 12=-332(LC 13)  
 Max Grav 2=215(LC 23), 17=1682(LC 1), 12=921(LC 1)

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

TOP CHORD	2-3=-1477/708, 3-4=-656/1084, 4-5=-282/80, 5-6=-362/167, 6-7=-1476/628, 7-8=-616/427, 8-9=-760/504, 9-10=-667/405, 10-12=-859/490
BOT CHORD	2-18=-521/100, 17-18=-521/100, 16-17=-1104/635, 15-16=-516/1282, 14-15=-377/875, 13-14=-162/542
WEBS	3-18=-257/244, 3-17=-781/938, 4-17=-877/455, 4-16=-479/1156, 5-16=-285/178, 6-16=-1370/694, 7-14=-529/301, 8-14=-163/346, 9-13=-433/154, 10-13=-119/495, 7-15=-370/1123

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 391 lb uplift at joint 2, 685 lb uplift at joint 17 and 332 lb uplift at joint 12.
  - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

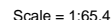


Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:18 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191jviL9w-qJ1UGJkQXGfvG1IbPg45NuUXI2PTXziWNAME vvYSd3



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

**TOP CHORD** 2-3=-289/534, 3-4=-731/864, 4-5=-266/0, 6-8=-978/471, 8-9=-256/185, 9-10=-282/169,  
10-11=-605/302

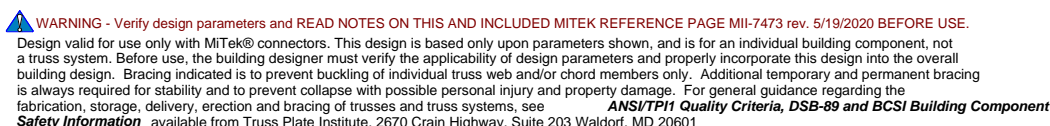
**BOT CHORD** 2-16=-469/0, 15-16=-469/0, 14-15=-866/486, 13-14=-592/921, 12-13=-245/497

**WEBS** 3-16=-282/242, 3-15=-771/984, 4-15=-726/415, 4-14=-408/894, 6-14=-960/727,  
8-12=-488/309, 10-12=-173/434, 8-13=-425/823

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDF=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 352 lb uplift at joint 2, 649 lb uplift at joint 15 and 222 lb uplift at joint 11.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 30, 2020



Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450620
2454743	T12	Piggyback Base	5	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:19 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-lVasTfk2lZnltBnyObKw61h8ShHGNbgcq6nWLyYSd2

1-6-0	6-2-0	13-6-0	17-8-6	21-10-11	27-4-12	31-5-2	35-9-0	37-3-0
1-6-0	6-2-0	7-4-0	4-2-6	4-2-6	5-6-1	4-0-6	4-3-14	1-6-0

Scale = 1:71.4

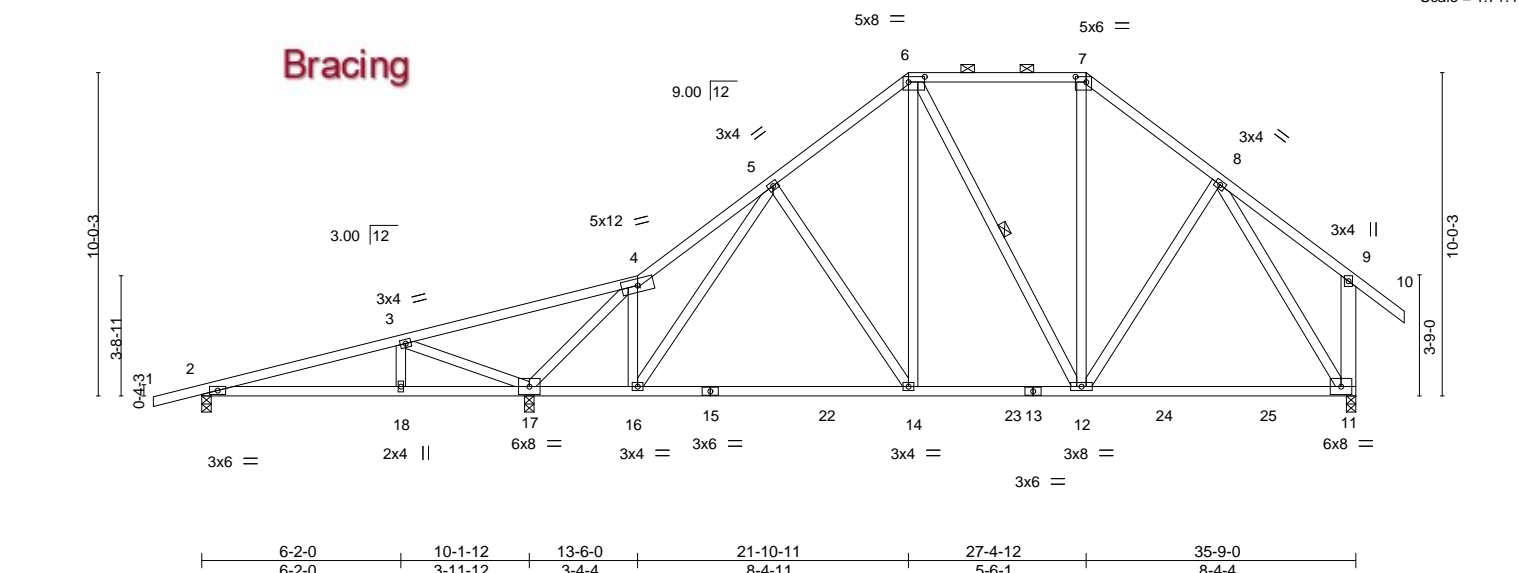


Plate Offsets (X,Y)-- [6:0-6-0,0-2-0], [7:0-4-0,0-2-0]											
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b> <b>GRIP</b>			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	-0.17 14-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.32 14-16	>954	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.02 11	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 234 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3 \*Except\*  
9-11: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.  
BOT CHORD Rigid ceiling directly applied or 8-2-2 oc bracing.  
WEBS 1 Row at midpt 6-12

#### REACTIONS.

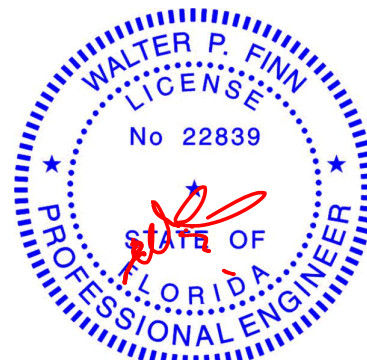
(size) 2=0-3-8, 17=0-3-8, 11=0-3-8  
Max Horz 2=405(LC 11)  
Max Uplift 2=-343(LC 8), 17=-641(LC 12), 11=-340(LC 13)  
Max Grav 2=325(LC 23), 17=1503(LC 1), 11=997(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-250/425, 3-4=-574/680, 4-5=-805/287, 5-6=-788/483, 6-7=-628/442, 7-8=-733/476, 8-9=-251/247, 9-11=-327/273  
BOT CHORD 2-18=-453/229, 17-18=-453/229, 16-17=-168/716, 14-16=-253/776, 12-14=-217/666, 11-12=-167/472  
WEBS 3-17=-897/1042, 4-17=-1638/852, 4-16=-125/387, 5-14=-255/234, 6-14=-155/429, 7-12=-99/251, 8-11=-788/289

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 343 lb uplift at joint 2, 641 lb uplift at joint 17 and 340 lb uplift at joint 11.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



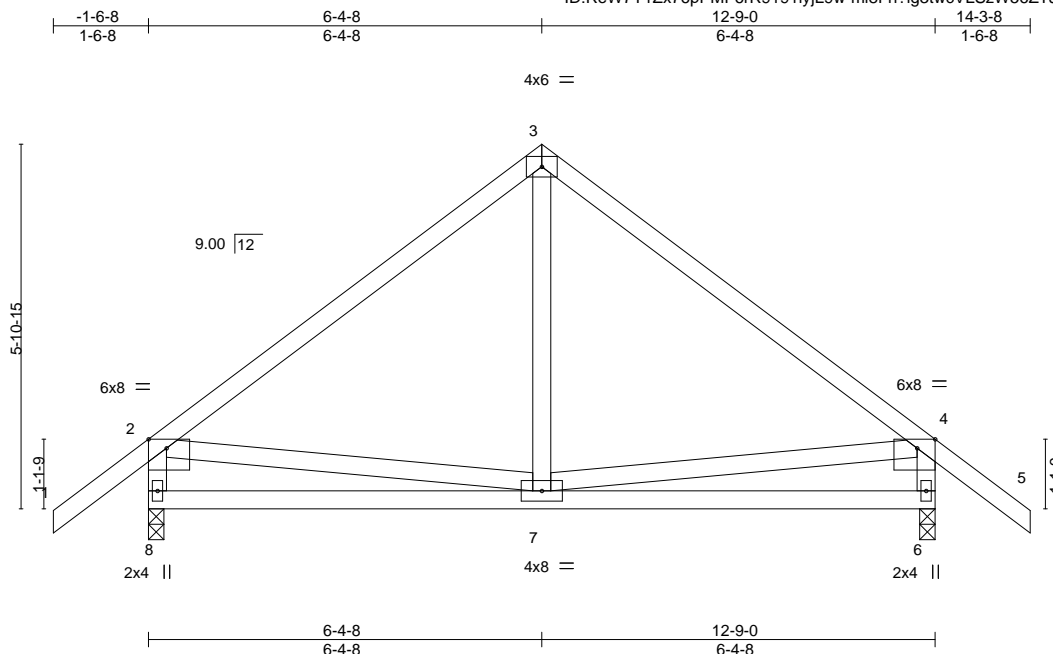
6904 Parke East Blvd.  
Tampa, FL 33610



Job 2454743	Truss T13	Truss Type Common	Qty 1	Ply 1	IC CONST - ADAM'S RES. Job Reference (optional)	T21450621
----------------	--------------	----------------------	----------	----------	--	-----------

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:20 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191ijL9w-mi8Fh?lg3twcVLSzW56ZTJZrNr6n?03prUrK2oyYSd1



Scale = 1:37.3

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-8,Edge]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	L/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	-0.03	7-8	>999
TCDL 7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.06	7-8	>999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	6	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS				
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	244/190		
				Weight: 77 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.

#### REACTIONS.

(size) 8=0-3-0, 6=0-3-0  
Max Horz 8=-231(LC 10)  
Max Uplift 8=-221(LC 12), 6=-221(LC 13)  
Max Grav 8=552(LC 1), 6=552(LC 1)

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

TOP CHORD 2-3=-453/212, 3-4=-453/213, 2-8=-497/347, 4-6=-497/347  
BOT CHORD 7-8=-283/367, 6-7=-177/364  
WEBS 4-7=-127/251

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 221 lb uplift at joint 8 and 221 lb uplift at joint 6.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



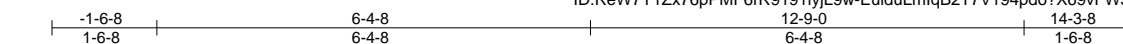
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2454743	Truss T13G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST - ADAM'S RES. Job Reference (optional)	T21450622
----------------	---------------	--------------------------------------	----------	----------	--	-----------

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:21 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-EuiduLmlqB2T7V194pdo?X69vFW3kT3z38buaEyYSd0



5x6 =

Scale = 1:33.9

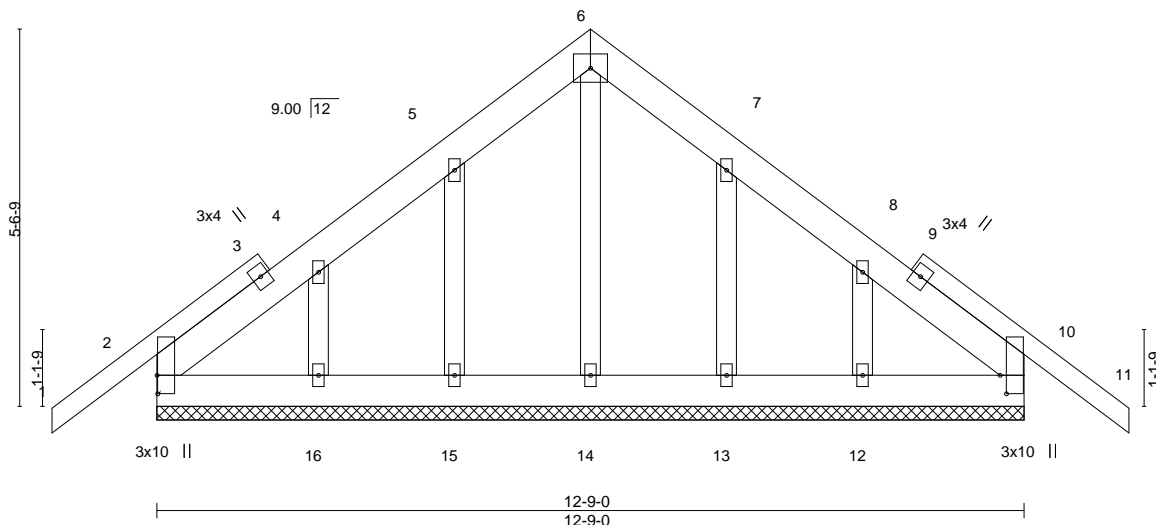


Plate Offsets (X,Y)-- [2:0-3-4,0-0-2], [10:0-3-4,0-1-2]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	<b>L/d</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.01 11	n/r	120
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.01 11	n/r	120
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00 10	n/a	n/a
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S				
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	244/190		
				Weight: 101 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\*  
1-3,9-11: 2x4 SP No.2  
BOT CHORD 2x6 SP No.2  
OTHERS 2x4 SP No.3

#### BRACING-

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

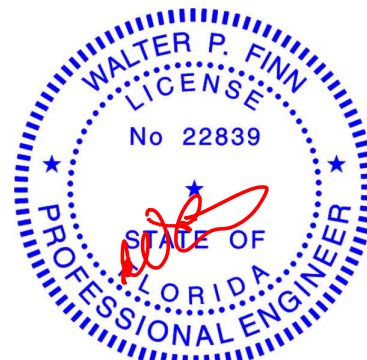
#### REACTIONS.

All bearings 12-9-0.  
(lb) - Max Horz 2=-174(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 15=-121(LC 12), 16=-149(LC 12), 13=-117(LC 13),  
12=-147(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 15=121, 16=149, 13=117, 12=147.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

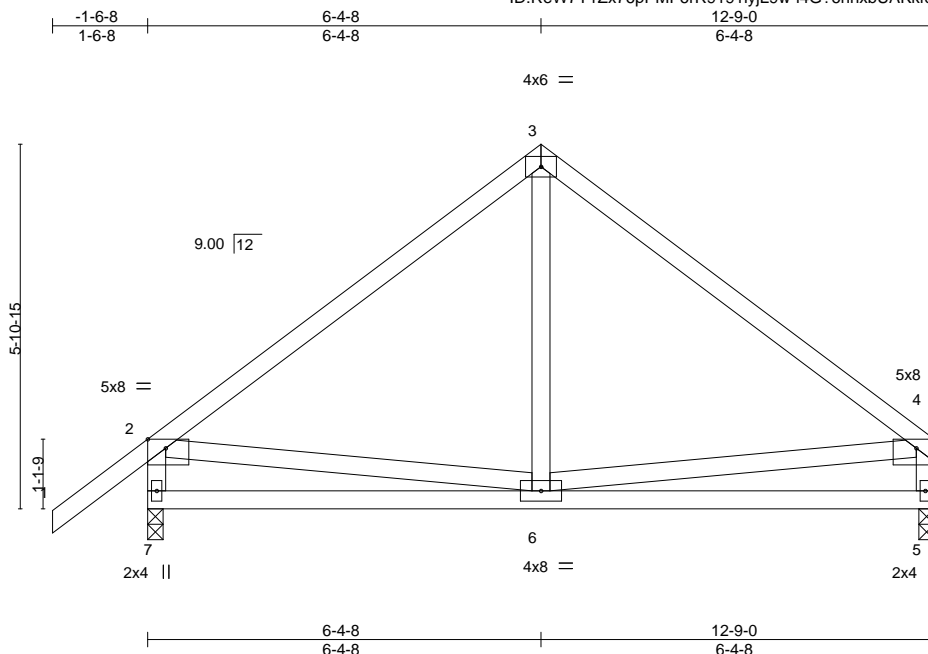
Job 2454743	Truss T14	Truss Type Common	Qty 6	Ply 1	IC CONST - ADAM'S RES. T21450623
----------------	--------------	----------------------	----------	----------	-------------------------------------

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:22 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191jvL9w-i4G?6hnxUAKKfcMeW91YkfBAfnFTvZ6loKR7gyYSd?



Scale = 1:37.3

Plate Offsets (X,Y)--		[2:0-3-8,Edge], [4:0-3-8,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b>	2-0-0	<b>CSI.</b>		<b>DEFL.</b>	in (loc)	I/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL	1.25	TC 0.74		Vert(LL)	-0.03 5-6	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.34		Vert(CT)	-0.06 5-6	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.10		Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0		Code FBC2017/TPI2014		Matrix-MS						Weight: 74 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.

#### REACTIONS.

(size) 7=0-3-0, 5=0-3-0  
Max Horz 7=218(LC 9)  
Max Uplift 7=222(LC 12), 5=161(LC 13)  
Max Grav 7=558(LC 1), 5=455(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-463/220, 3-4=-455/211, 2-7=-503/350, 4-5=-405/231  
BOT CHORD 6-7=-301/343

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=222, 5=161.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450624
2454743	T15	Common Girder	1	2	Job Reference (optional)	

**LOAD CASE(S)** Standard  
 Concentrated Loads (lb)  
 Vert: 19=-580(F) 20=-580(F) 21=-580(F) 22=-580(F) 23=-580(F) 24=-583(F)

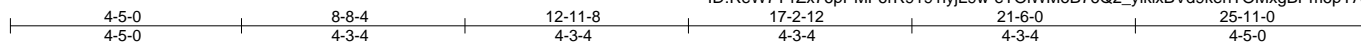


Job 2454743	Truss TF01	Truss Type FLOOR	Qty 2	Ply 2	IC CONST - ADAM'S RES. Job Reference (optional)	T21450625
----------------	---------------	---------------------	----------	----------	--	-----------

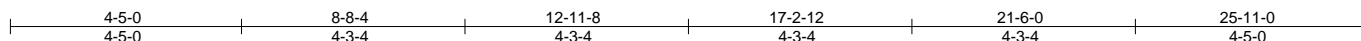
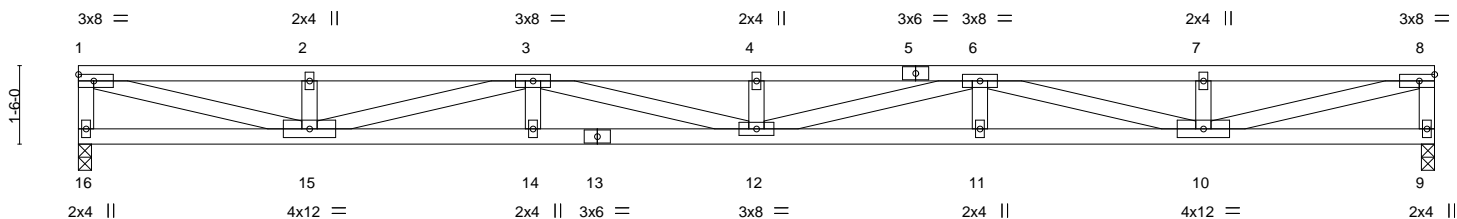
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:24 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191ijL9w-eTOIWMoB76Q2\_yklxBVd9kehTOMxgBPm6pYAZyYScz



Scale = 1:44.0



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1-4-0	TC 0.29	Vert(LL)	-0.39	12	>779	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.69	Vert(CT)	-0.54	12	>566	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.06	9	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-MS						Weight: 246 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 5-3-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

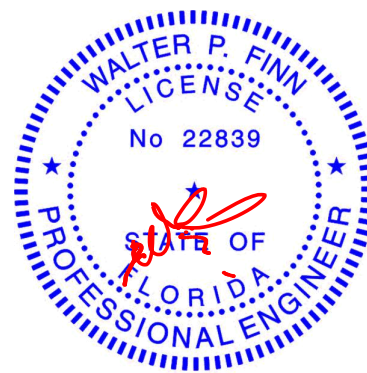
**REACTIONS.** (size) 16=0-3-0, 9=0-3-0  
Max Grav 16=940(LC 1), 9=940(LC 1)

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

TOP CHORD 1-16=-904/0, 1-2=-2781/0, 2-3=-2781/0, 3-4=-4960/0, 4-6=-4960/0, 6-7=-2781/0, 7-8=-2781/0, 8-9=-904/0  
BOT CHORD 14-15=0/4420, 12-14=0/4420, 11-12=0/4420, 10-11=0/4420  
WEBS 1-15=0/2781, 2-15=-286/0, 3-15=-1704/0, 3-12=0/560, 4-12=-282/0, 6-12=0/560, 6-10=-1704/0, 7-10=-286/0, 8-10=0/2781

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- The Fabrication Tolerance at joint 5 = 20%, joint 13 = 20%
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

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

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

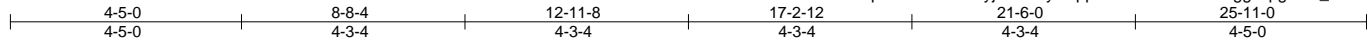


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450626
2454743	TF02	FLOOR	1	4	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:25 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191yjl9w-7fy7kippuPYvb6KxJfikANHggskpgATY\_mZ5i?yYScy



Scale = 1:44.0

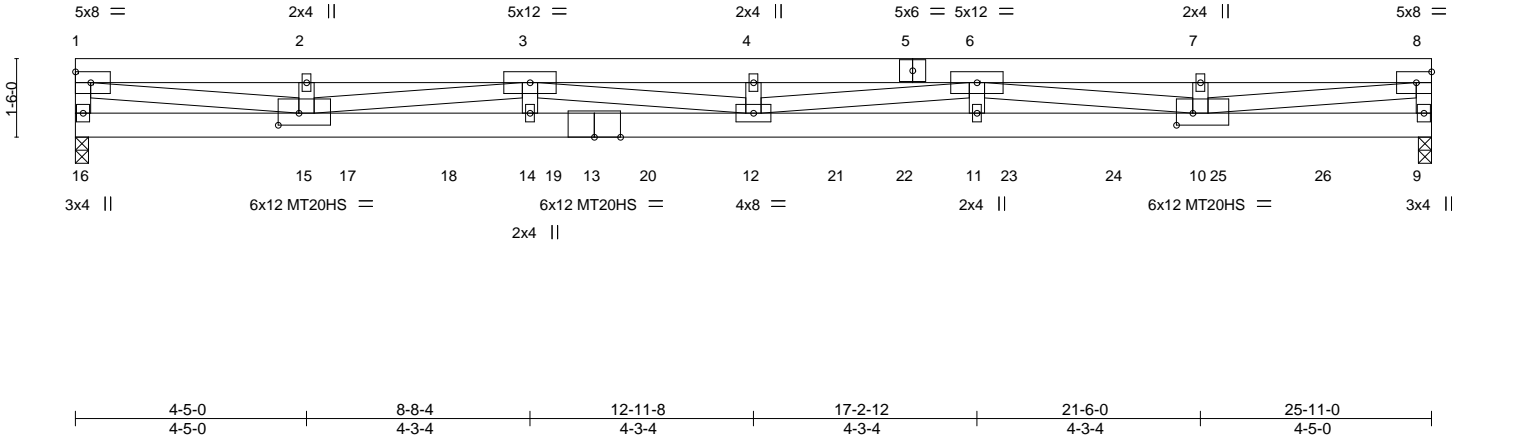


Plate Offsets (X,Y)-- [10:0-3-12,0-2-12], [15:0-4-12,0-2-12]							
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	L/defl	<b>PLATES</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.85	Vert(LL)	-0.69	>447	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.67	Vert(CT)	-0.93	>329	MT20HS
BCLL 0.0	Rep Stress Incr	NO	WB 0.47	Horz(CT)	0.07	n/a	
BCDL 5.0	Code FBC2017/TPI2014		Matrix-MS				
							Weight: 652 lb FT = 20%

#### LUMBER-

TOP CHORD 2x6 SP No.2  
BOT CHORD 2x6 SP M 26  
WEBS 2x4 SP No.3 \*Except\*  
1-15,3-15,3-12,6-12,6-10,8-10: 2x4 SP M 31

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 16=0-3-0, 9=0-3-0  
Max Grav 16=3943(LC 1), 9=3909(LC 1)

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

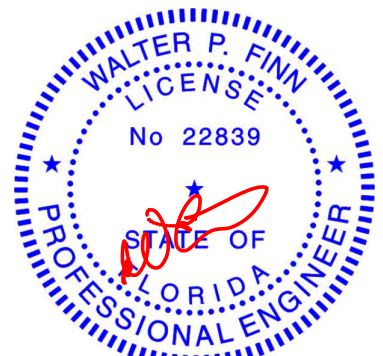
TOP CHORD 1-16=-3643/0, 1-2=-13947/0, 2-3=-13947/0, 3-4=-26385/0, 4-6=-26385/0, 6-7=-13122/0, 7-8=-13122/0, 8-9=-3418/0  
BOT CHORD 15-16=0/840, 14-15=0/24171, 12-14=0/24171, 11-12=0/23256, 10-11=0/23256, 9-10=0/864  
WEBS 1-15=0/13491, 3-15=-10524/0, 3-14=0/1375, 3-12=0/2279, 6-12=0/3221, 6-11=0/1120, 6-10=-10430/0, 8-10=0/12618

#### NOTES-

- 4-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 5 = 20%, joint 13 = 20%
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 266 lb down at 12-11-8, 917 lb down at 5-3-1, 319 lb down at 7-2-4, 319 lb down at 9-2-4, 917 lb down at 11-0-0, 841 lb down at 14-7-1, 291 lb down at 15-10-12, 291 lb down at 17-10-12, 291 lb down at 19-10-12, and 291 lb down at 21-10-12, and 291 lb down at 23-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-8=-100, 9-16=-10



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

Continued on page 2

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.**  
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450626
2454743	TF02	FLOOR	1	4	Job Reference (optional)	

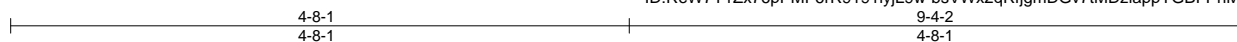
**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 12=-266(F) 17=-917(F) 18=-319(F) 19=-319(F) 20=-917(F) 21=-841(F) 22=-291(F) 23=-291(F) 24=-291(F) 25=-291(F) 26=-291(F)

Job 2454743	Truss TF03	Truss Type FLOOR	Qty 1	Ply 2	IC CONST - ADAM'S RES. Job Reference (optional)	T21450627
----------------	---------------	---------------------	----------	----------	--	-----------

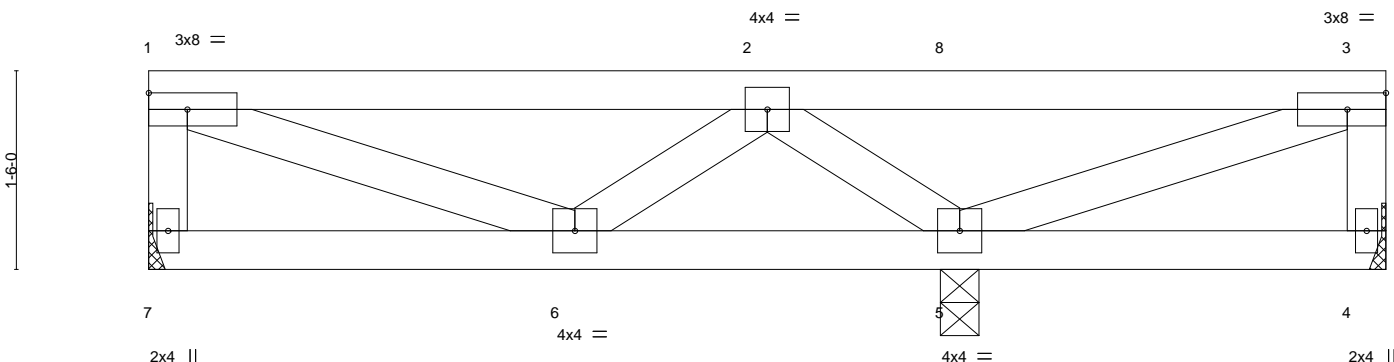
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:26 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR919iyjL9w-bsVWx2qRfjgmDGv7tMDziappYGBFPhMiDQlIFRyYScx



Scale = 1:17.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.97	Vert(LL)	-0.01	MT20		244/190	
BCLL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.01				
BCLL	0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.00				
BCDL	5.0	Code FBC2017/TP12014		Matrix-MS							
								Weight: 89 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.

**REACTIONS.** (size) 7=Mechanical, 4=Mechanical, 5=0-3-8  
Max Uplift 4=50(LC 3)  
Max Grav 7=851(LC 1), 4=467(LC 4), 5=1626(LC 1)

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

TOP CHORD 1-7=-813/0, 1-2=-791/0, 2-3=0/480, 3-4=-452/54  
BOT CHORD 5-6=0/1095  
WEBS 1-6=0/644, 2-6=-395/0, 2-5=-2048/0, 3-5=-696/0

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.  
Strongbacks to be attached to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-3=-300, 4-7=-10



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



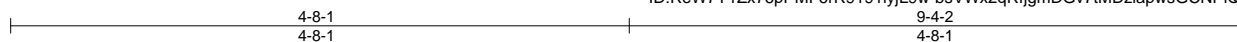
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2454743	Truss TF04	Truss Type FLOOR	Qty 5	Ply 1	IC CONST - ADAM'S RES. Job Reference (optional)	T21450628
----------------	---------------	---------------------	----------	----------	--	-----------

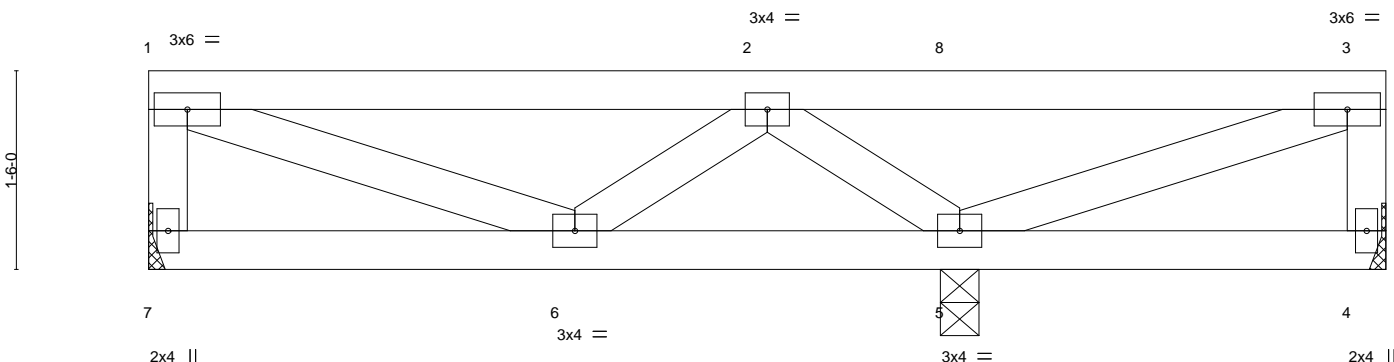
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:26 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191ijL9w-bsVWx2qRfjgmDGv7tMDziapwsGCNPiQiDQlIFRyYScx



Scale = 1:17.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.57	Vert(LL)	-0.01 6 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01 6 >999 240				
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00 4 n/a n/a				
BCDL	5.0	Code FBC2017/TPI2014		Matrix-MS							
								Weight: 45 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.

#### REACTIONS.

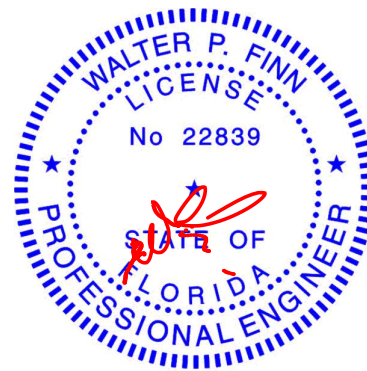
(size) 7=Mechanical, 4=Mechanical, 5=0-3-8  
Max Uplift 4=20(LC 3)  
Max Grav 7=301(LC 1), 4=163(LC 4), 5=580(LC 1)

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

TOP CHORD 1-7=-279/0, 1-2=-285/0  
BOT CHORD 5-6=0/371  
WEBS 2-5=-702/0

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610



Job 2454743	Truss TF05	Truss Type GABLE	Qty 1	Ply 1	IC CONST - ADAM'S RES. Job Reference (optional)	T21450629
----------------	---------------	---------------------	----------	----------	--	-----------

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

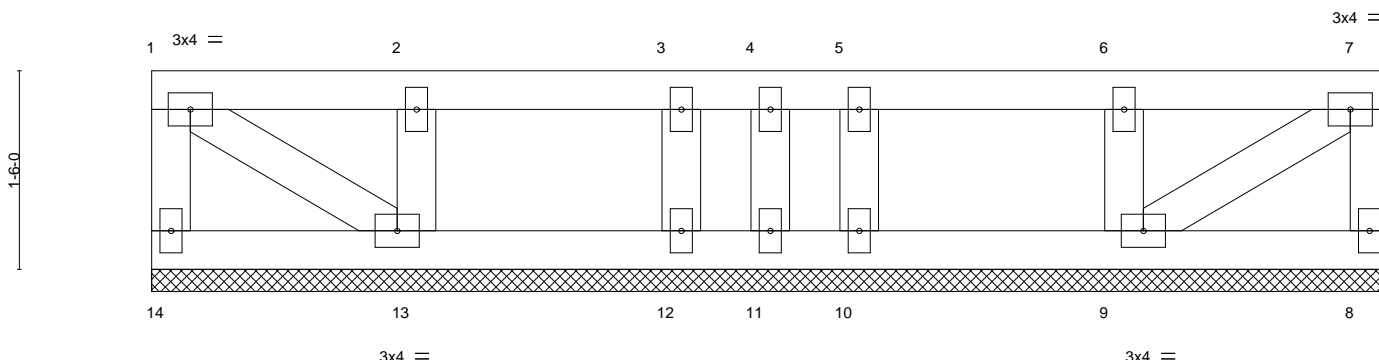
8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:27 2020 Page 1

ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-323u9Or3Q1odrQUJQ3kCFoMC0gZb8BWrS42CnuyYScw

9-4-2

9-4-2

Scale = 1:17.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a				
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00				
BCDL	5.0	Code FBC2017/TPI2014		Matrix-S							
								Weight: 43 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 9-4-2 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

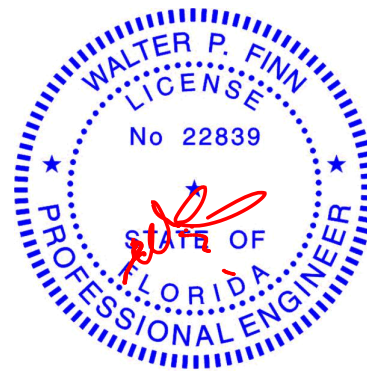
All bearings 9-4-2.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 11, 9, 10, 13, 12

#### FORCES.

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

#### NOTES-

- 1) All plates are 2x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 2-0-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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

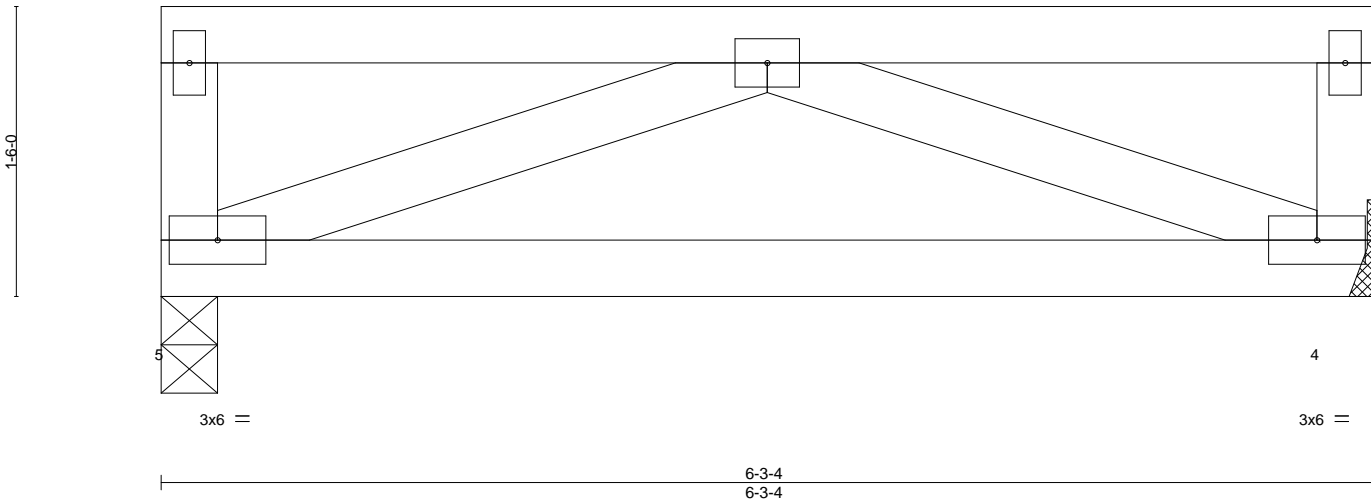
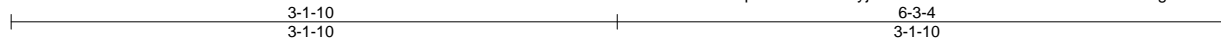


6904 Parke East Blvd.  
Tampa, FL 33610

Job 2454743	Truss TF06	Truss Type FLOOR	Qty 2	Ply 2	IC CONST - ADAM'S RES. Job Reference (optional)	T21450630
----------------	---------------	---------------------	----------	----------	--	-----------

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:27 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-323u9Or3Q1odrQUJQ3kCFoM7RgVa89XrS42CnuyYScw



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.38	Vert(LL)	0.00	5	****	360	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.27	Vert(CT)	-0.02	4-5	>999	240	244/190
BCLL 0.0	Rep Stress Incr	NO	WB 0.18	Horz(CT)	0.01	4	n/a	n/a	
BCDL 5.0	Code FBC2017/TPI2014		Matrix-MP						
								Weight: 61 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 6-3-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-3-8, 4=Mechanical  
Max Grav 5=927(LC 1), 4=927(LC 1)

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

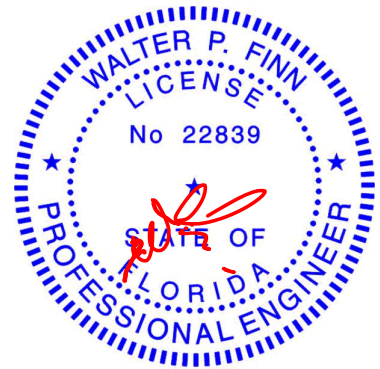
TOP CHORD 1-5=-355/0, 3-4=-355/0  
BOT CHORD 4-5=0/1342  
WEBS 2-5=-1447/0, 2-4=-1447/0

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.  
Strongbacks to be attached to walls at their outer ends or restrained by other means.

#### LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
Uniform Loads (plf)  
Vert: 1-3=-300, 4-5=-10



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30, 2020

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

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



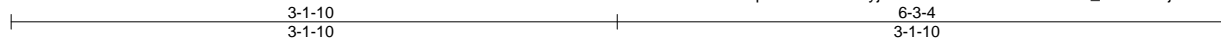
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2454743	Truss TF07	Truss Type FLOOR	Qty 2	Ply 1	IC CONST - ADAM'S RES. Job Reference (optional)	T21450631
----------------	---------------	---------------------	----------	----------	--	-----------

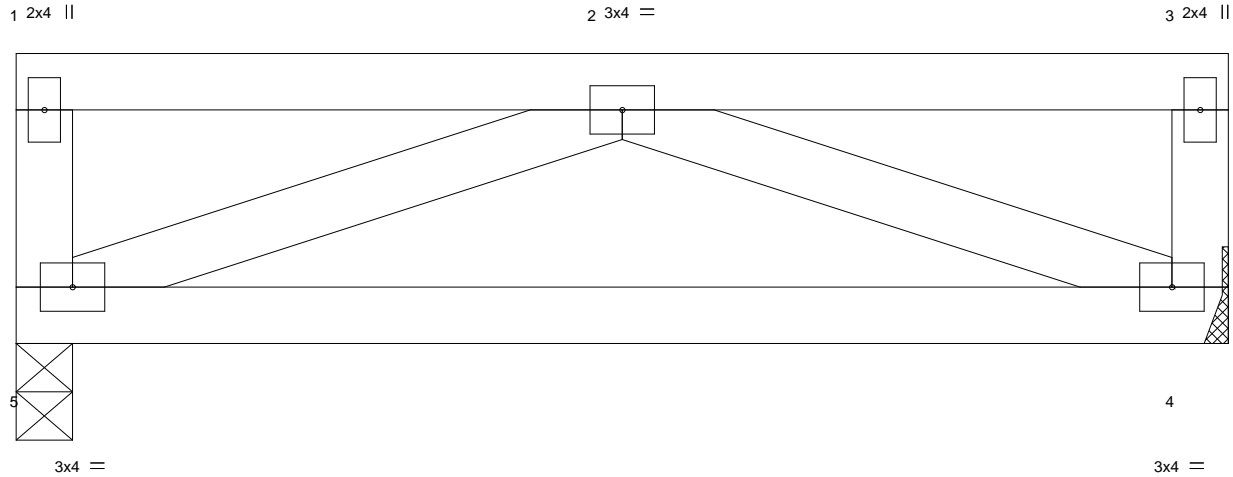
Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.240 s Mar 9 2020 MiTek Industries, Inc. Wed Sep 30 11:22:28 2020 Page 1  
ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-XEdGMkrhAKwUSa3W\_nFRn?vLj4rztCJ?gkomJKyYScv



Scale: 1"=1'



LOADING (psf)		SPACING-		CSI.		DEFL.		I/defl		L/d		PLATES		GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	0.00	5	****	360		MT20		244/190	
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	-0.04	4-5	>999	240					
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	4	n/a	n/a					
BCDL	5.0	Code FBC2017/TPI2014		Matrix-MP											
												Weight: 30 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 6-3-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

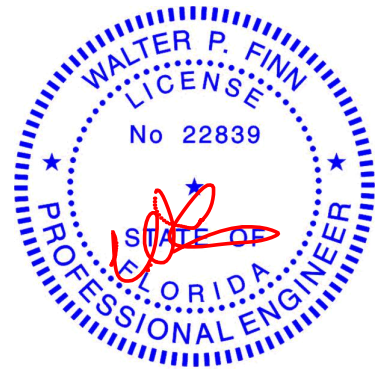
(size) 5=0-3-8, 4=Mechanical  
Max Grav 5=329(LC 1), 4=329(LC 1)

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

BOT CHORD 4-5=0/447  
WEBS 2-5=-482/0, 2-4=-482/0

#### NOTES-

- 1) Refer to girder(s) for truss to truss connections.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450632
2454743	TG01	FLAT	1	2	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),
Jacksonville, FL - 32244,
8.240 s Mar 9 2020
MiTek Industries, Inc.
Wed Sep 30 11:22:29 2020
Page 1
ID:ReW7Y1Zx76pPMF6rR9191iyjL9w-?RBea4sKxe2L4keiYUngkDRNeU9icuR8vOXJsmYScu

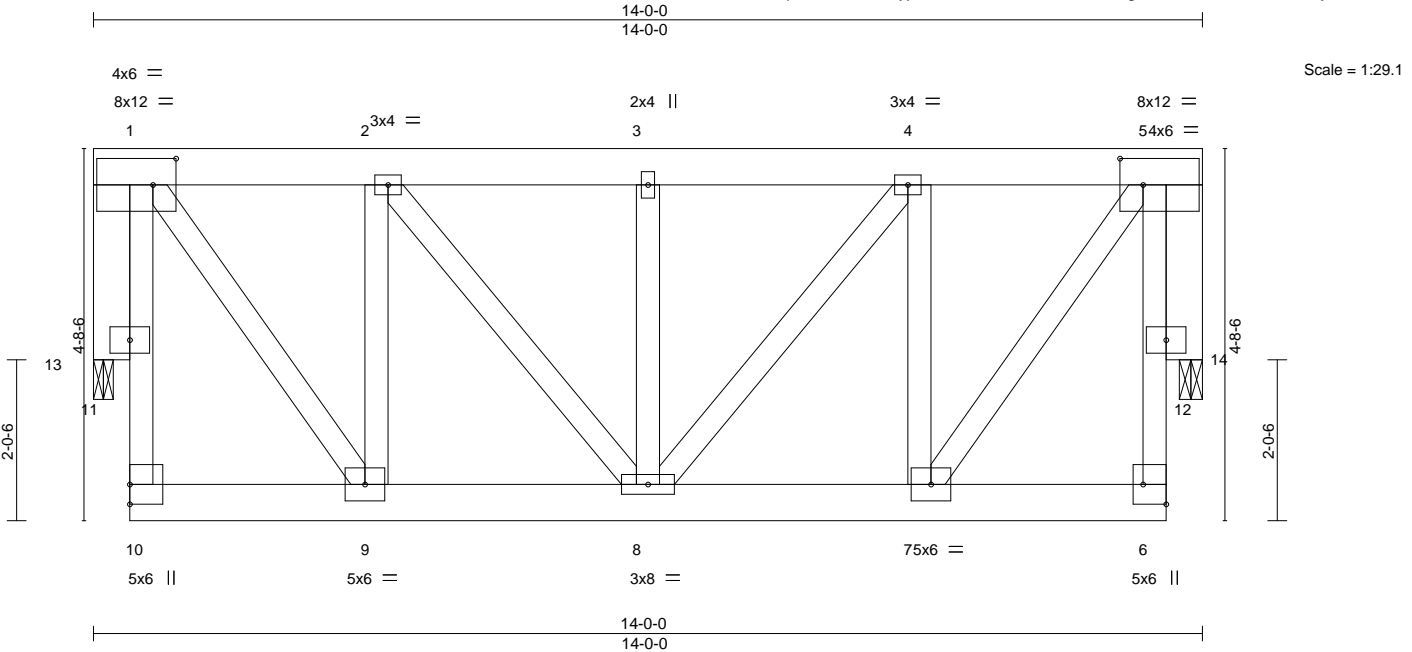


Plate Offsets (X,Y)--		[1:0-3-8,0-4-0], [5:0-3-8,0-4-0], [6:Edge,0-3-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79
TCDL 7.0	Lumber DOL	1.25	BC 0.42
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.85
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) 0.06 8 >999 240
			Vert(CT) -0.08 8 >999 180
			Horz(CT) 0.15 14 n/a n/a
			<b>PLATES</b>
			MT20
			<b>GRIP</b>
			244/190
			Weight: 260 lb FT = 20%

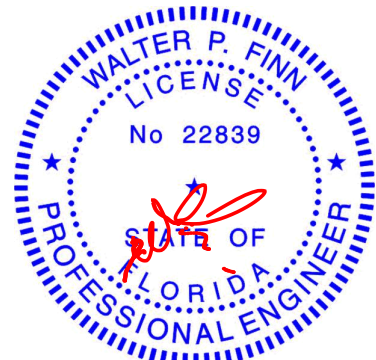
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS 2x4 SP No.3 *Except*	
OTHERS 1-10,5-6: 2x4 SP No.2	
2x6 SP No.2	

<b>REACTIONS.</b>	(size) 13=0-3-0, 14=0-3-8
	Max Uplift 13=-2209(LC 4), 14=-2215(LC 4)
	Max Grav 13=4624(LC 1), 14=4638(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	10-11=-276/616, 1-11=-276/616, 1-2=-2266/1083, 2-3=-3233/1543, 3-4=-3233/1543, 4-5=-2254/1077, 6-12=-273/610, 5-12=-273/610
BOT CHORD	9-10=-276/577, 8-9=-1499/3138, 7-8=-1494/3126, 6-7=-267/557
WEBS	2-9=-2529/1262, 3-8=-1162/607, 4-7=-2535/1265, 1-9=-2132/4464, 2-8=-733/1538, 4-8=-742/1556, 5-7=-2139/4479, 1-13=-4709/2250, 5-14=-4716/2253

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 13, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2209 lb uplift at joint 13 and 2215 lb uplift at joint 14.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

<b>LOAD CASE(S)</b>	Standard
---------------------	----------



Walter P. Finn PE No.22839  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

September 30,2020

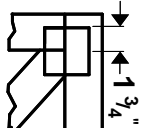
Job	Truss	Truss Type	Qty	Ply	IC CONST - ADAM'S RES.	T21450632
2454743	TG01	FLAT	1	2	Job Reference (optional)	

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 6-10=-370(F=-250, B=-100), 1-5=-354(F=-300)

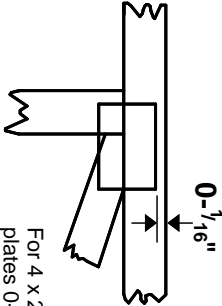


# Symbols

## 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

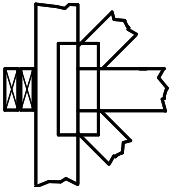
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

# Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)

