



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

RE: 2779092 - IC CONST. - SCHEFFLER RES.

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

**Site Information:**

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

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4  
Wind Code: ASCE 7-16 Wind Speed: 130 mph  
Roof Load: 37.0 psf Floor Load: N/A psf

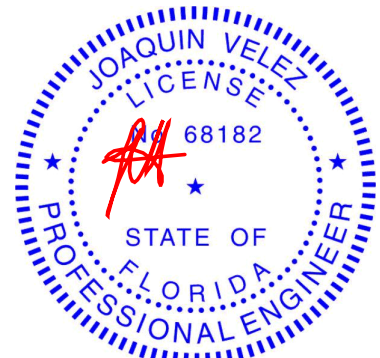
This package includes 55 individual, Truss Design Drawings and 0 Additional Drawings.  
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T23930941	CJ01	5/13/21	23	T23930963	HJ08A	5/13/21
2	T23930942	CJ01B	5/13/21	24	T23930964	HJ10	5/13/21
3	T23930943	CJ02	5/13/21	25	T23930965	HJ10A	5/13/21
4	T23930944	CJ02A	5/13/21	26	T23930966	T01	5/13/21
5	T23930945	CJ03	5/13/21	27	T23930967	T01G	5/13/21
6	T23930946	CJ03A	5/13/21	28	T23930968	T02	5/13/21
7	T23930947	CJ03B	5/13/21	29	T23930969	T03	5/13/21
8	T23930948	CJ04	5/13/21	30	T23930970	T04	5/13/21
9	T23930949	CJ05	5/13/21	31	T23930971	T05	5/13/21
10	T23930950	CJ05A	5/13/21	32	T23930972	T06	5/13/21
11	T23930951	CJ05B	5/13/21	33	T23930973	T07	5/13/21
12	T23930952	EJ01	5/13/21	34	T23930974	T08	5/13/21
13	T23930953	EJ02	5/13/21	35	T23930975	T09	5/13/21
14	T23930954	EJ03	5/13/21	36	T23930976	T10	5/13/21
15	T23930955	EJ04	5/13/21	37	T23930977	T11	5/13/21
16	T23930956	EJ05	5/13/21	38	T23930978	T12	5/13/21
17	T23930957	EJ06	5/13/21	39	T23930979	T13	5/13/21
18	T23930958	EJ07	5/13/21	40	T23930980	T14	5/13/21
19	T23930959	EJ08	5/13/21	41	T23930981	T15	5/13/21
20	T23930960	EJ09	5/13/21	42	T23930982	T16	5/13/21
21	T23930961	EJ10	5/13/21	43	T23930983	T17	5/13/21
22	T23930962	HJ07	5/13/21	44	T23930984	T18	5/13/21

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

Truss Design Engineer's Name: Velez, Joaquin  
My license renewal date for the state of Florida is February 28, 2023.

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



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

May 13, 2021



RE: 2779092 - IC CONST. - SCHEFFLER RES.

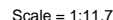
MiTek USA, Inc.  
6904 Parke East Blvd.  
Tampa, FL 33610-4115

**Site Information:**

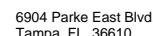
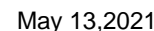
Customer Info: IC CONSTRUCTION    Project Name: Scheffler Res.    Model: Custom  
Lot/Block: N/A    Subdivision: N/A  
Address: TBD, TBD  
City: Columbia Cty    State: FL

No.	Seal#	Truss Name	Date
45	T23930985	T19	5/13/21
46	T23930986	T20	5/13/21
47	T23930987	T21	5/13/21
48	T23930988	T22	5/13/21
49	T23930989	T23	5/13/21
50	T23930990	T24	5/13/21
51	T23930991	T25	5/13/21
52	T23930992	T25G	5/13/21
53	T23930993	T26	5/13/21
54	T23930994	T27	5/13/21
55	T23930995	T28G	5/13/21

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:39 2021 Page 1  
ID:0uxsqkccQW60cxv8huYxpSvI0nE-Ja0xmWYmwf0t8KM5sxvIoSv95BiddN8RwEB5tzHJJI



- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



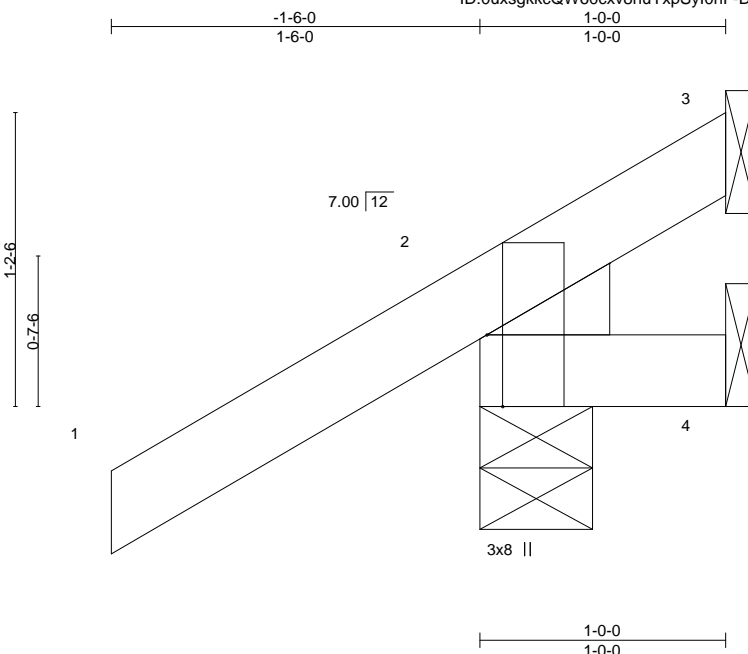
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930942
2779092	CJ01B	Jack-Open	4	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:40 2021 Page 1

ID:0uxsgkccQW60cxv8huYxpSyl0nF-D1aK\_rZ?hzjFVlvYfZSBr0?6\_VXCM7dlgZzldJzHUIT



Scale = 1:9.4

Plate Offsets (X,Y)--		[2:0-3-8,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 0.16	Vert(LL)	0.00	7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	0.00	7	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP								
									Weight: 7 lb	FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

#### BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=46(LC 12)

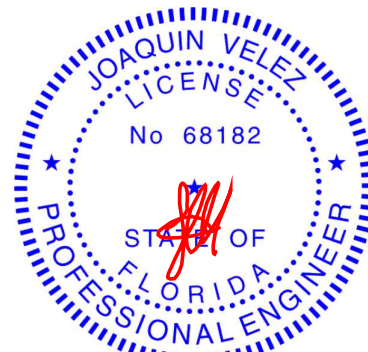
Max Uplift 3=7(LC 1), 2=57(LC 12), 4=18(LC 1)

Max Grav 3=6(LC 8), 2=179(LC 1), 4=13(LC 16)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

May 13,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

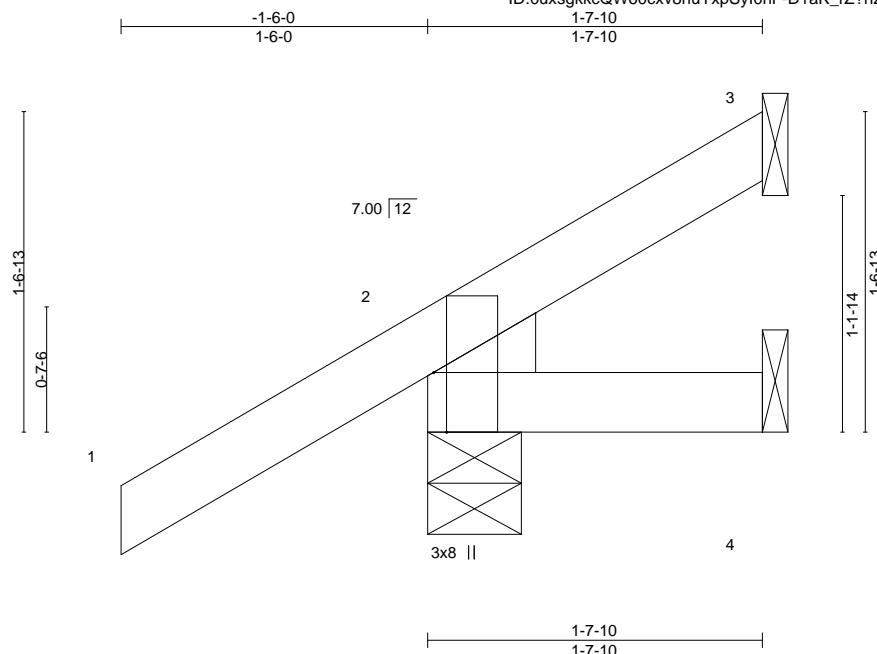
Job 2779092	Truss CJ02	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930943
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:40 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-D1aK\_rZ?hZjFVlvYfZSBr0?66VX1M7dlgZzldJzHUIT



Scale = 1:11.3

Plate Offsets (X,Y)--		[2:0-3-8,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 0.15	Vert(LL)	0.00	7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	7	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP								
										Weight: 9 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

#### BRACING-

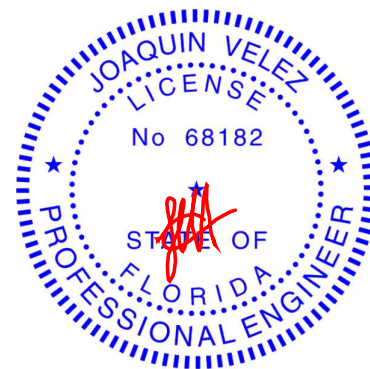
TOP CHORD Structural wood sheathing directly applied or 1-7-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=58(LC 12)  
Max Uplift 3=-17(LC 12), 2=-49(LC 12)  
Max Grav 3=23(LC 19), 2=179(LC 1), 4=23(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

May 13,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

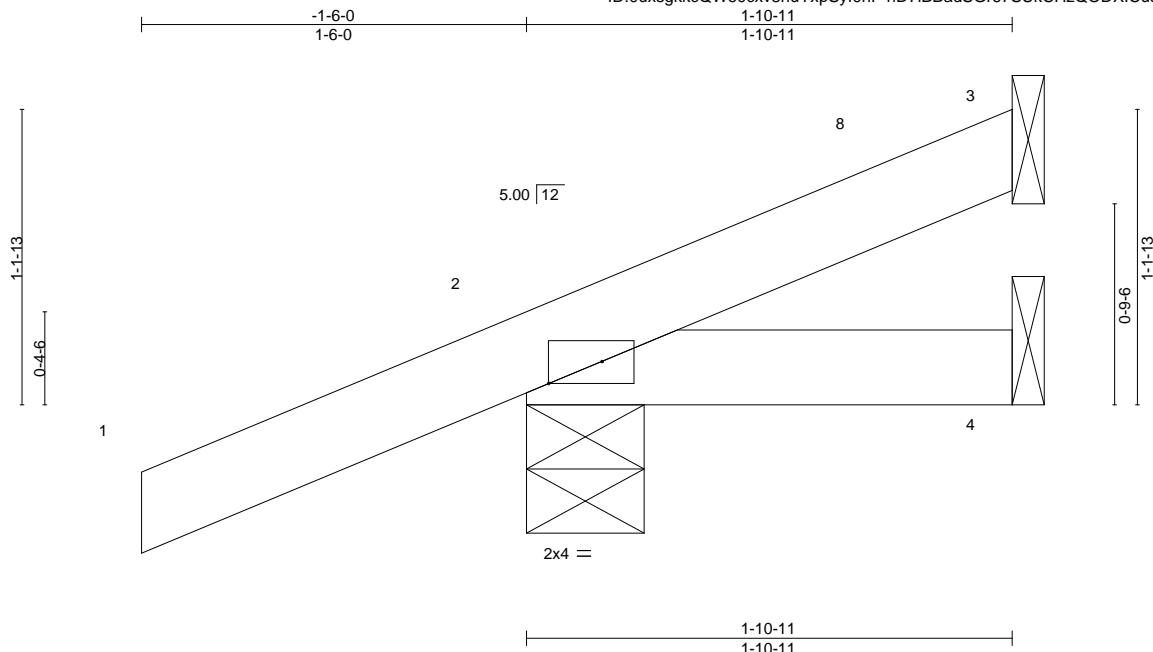
Job 2779092	Truss CJ02A	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930944
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:41 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-hD7iBBadSGr67SUKCHzQODXICusK5ZiRvDjIAmzHUIS



Scale = 1:9.0

Plate Offsets (X,Y)-- [2:0-2-8,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	0.13	Vert(LL)	-0.00	7	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	7	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 8 lb FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-11 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

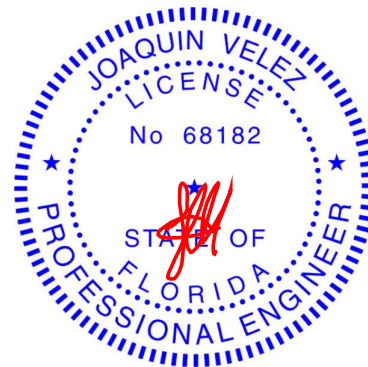
#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=45(LC 12)  
Max Uplift 3=15(LC 12), 2=67(LC 8)  
Max Grav 3=28(LC 1), 2=183(LC 1), 4=28(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-10-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

May 13,2021

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

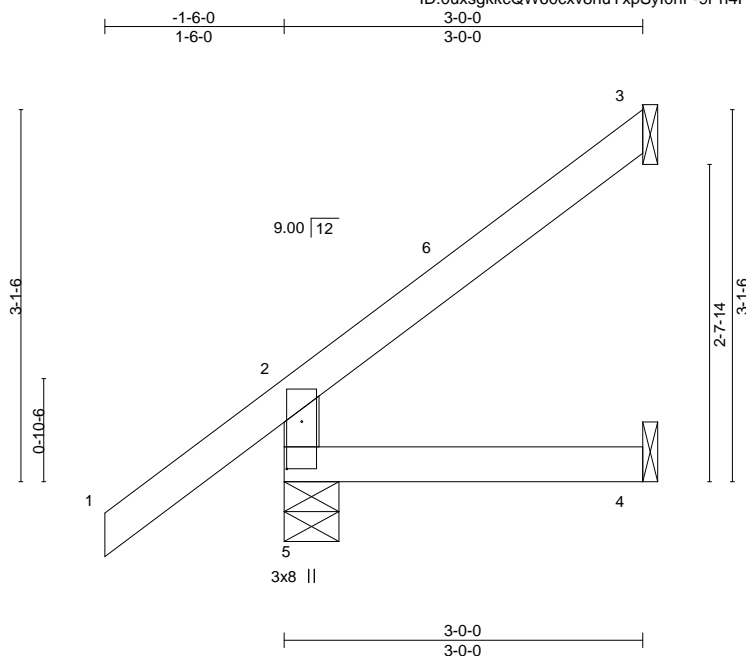
**Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.  
Tampa, FL 36610



8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:42 2021 Page 1  
ID:0uxsqkkcQW60cxv8huYxpSv10nE-9Ph4PXaFDazykc3xm UfwR4QoIBFq07b7tSriCzHUIR



Scale = 1:19.3

Plate Offsets (X,Y)-- [5:0-4-12,0-1-8]																	
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	0.26	Vert(LL)	-0.00	4-5	>999	240					MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	4-5	>999	180							
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a							
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR											Weight: 14 lb	FT = 20%	

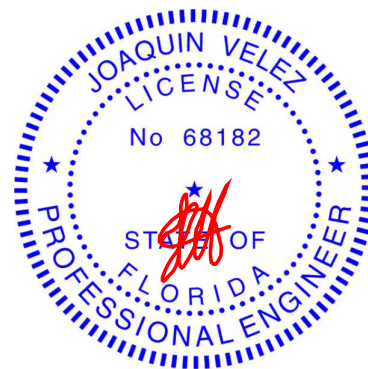
<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2		
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 5=0-5-8, 3=Mechanical, 4=Mechanical  
 Max Horz 5=101(LC 12)  
 Max Uplift 5=-30(LC 12), 3=-56(LC 12), 4=-4(LC 12)  
 Max Grav 5=218(LC 1), 3=64(LC 19), 4=50(LC 3)

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

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCdL=4.2psf; BCdL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.



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

May 13, 2021

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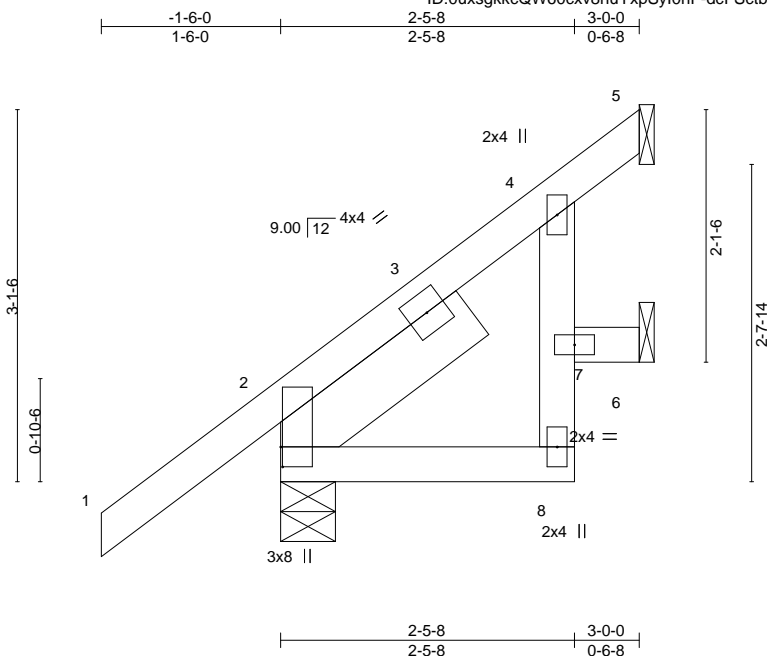
**Safety Information** available from Truss Plate Institute, 2670 Grain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd  
Tampa, FL 36610

Job 2779092	Truss CJ03A	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. T23930946
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:43 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-dcFSctbt\_u5pMme7Ki?uTeddjiXpZTNkMXCPEezHUIQ



Scale = 1:19.3

Plate Offsets (X,Y)-- [2:0-2-0,0-0-3]							
<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 0.19	Vert(LL)	-0.00 11	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.00 11	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 6	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR				
				Weight: 21 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
4-8: 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -t 1-11-8

#### BRACING-

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

#### REACTIONS.

(size) 5=Mechanical, 2=0-5-8, 6=Mechanical  
Max Horz 2=109(LC 12)  
Max Uplift 5=23(LC 12), 2=27(LC 12), 6=40(LC 12)  
Max Grav 5=38(LC 19), 2=210(LC 1), 6=62(LC 19)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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

May 13, 2021

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

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

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



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Tampa, FL 33610



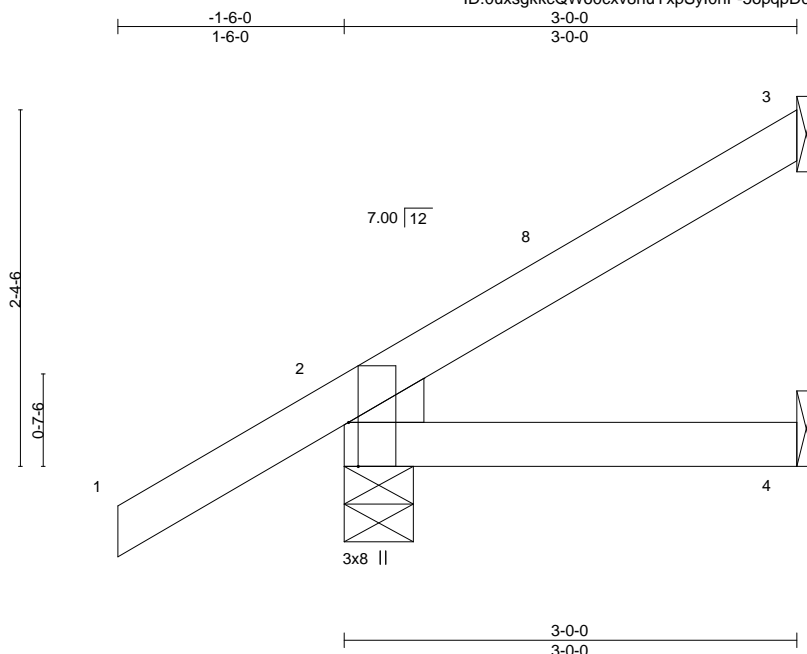
Job 2779092	Truss CJ03B	Truss Type Jack-Open	Qty 4	Ply 1	IC CONST. - SCHEFFLER RES. T23930947
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:44 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-5opqpDcVkBdg\_wDJuPW7?s9oF6tHlwcubBxym5zHUIP



Scale = 1:15.3

Plate Offsets (X,Y)--		[2:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14
TCDL 7.0	Lumber DOL	1.25	BC 0.08
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 4-7 >999 240
			Vert(CT) -0.01 4-7 >999 180
			Horz(CT) 0.00 3 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 13 lb FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

#### BRACING-

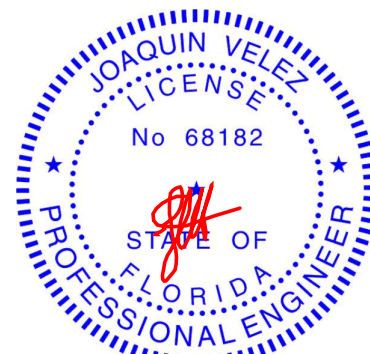
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=85(LC 12)  
Max Uplift 3=-41(LC 12), 2=-47(LC 12), 4=-2(LC 12)  
Max Grav 3=63(LC 19), 2=210(LC 1), 4=50(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

May 13, 2021

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



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Tampa, FL 36610

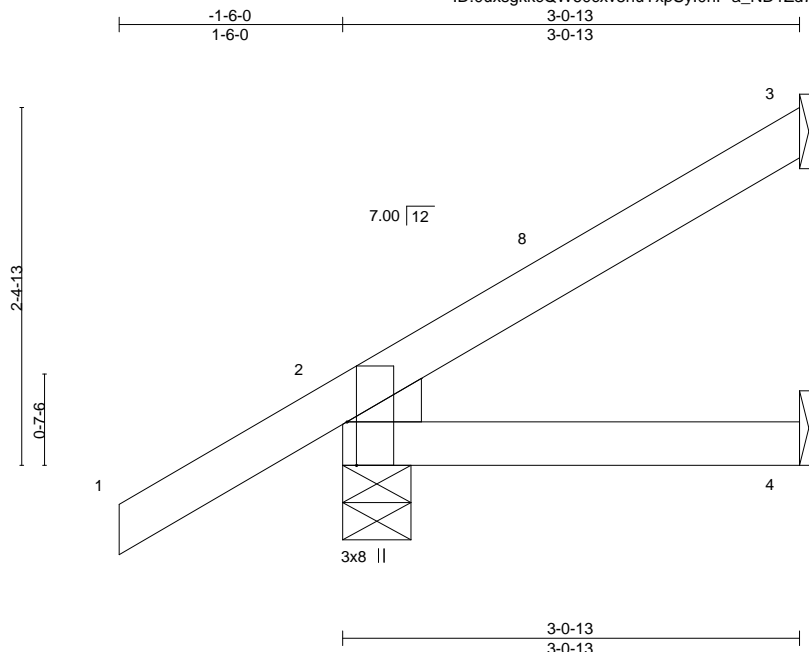
Job 2779092	Truss CJ04	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930948
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:45 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-a\_ND1Zd7VVLXb3oVR71MY3iz?WDT1Ns1prhWJXzHUIO



Scale = 1:15.5

Plate Offsets (X,Y)--		[2:0-3-8,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 0.14	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP								
										Weight: 13 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

#### BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-0-13 oc purlins.

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=86(LC 12)

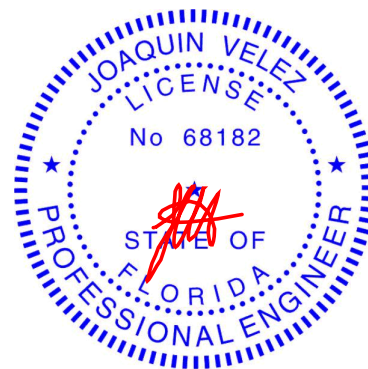
Max Uplift 3=43(LC 12), 2=-47(LC 12), 4=-2(LC 12)

Max Grav 3=65(LC 19), 2=212(LC 1), 4=51(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-0-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

May 13, 2021

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



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Tampa, FL 36610

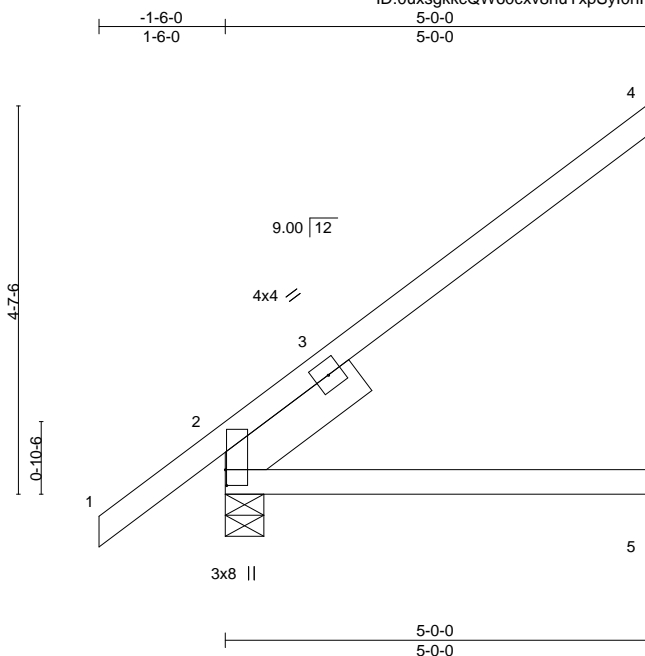
Job 2779092	Truss CJ05	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. T23930949
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:46 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-2BxbEvelGpTODDni?qZb5HE5bvVXmq6A2VQ3rzzHUIN



Scale = 1:27.4

Plate Offsets (X,Y)-- [2:0-2-4,0-0-3]									
<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 0.34	Vert(LL)	0.05 5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.06 5-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 24 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
SLIDER Left 2x6 SP No.2 -t 1-11-8

#### BRACING-

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

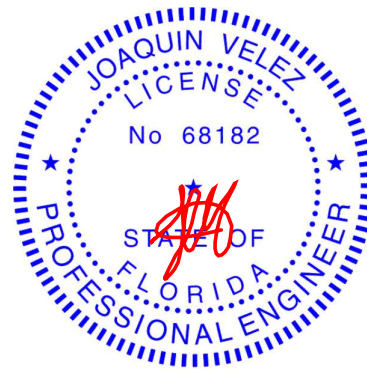
#### REACTIONS.

(size) 4=Mechanical, 2=0-5-8, 5=Mechanical  
Max Horz 2=161(LC 12)  
Max Uplift 4=95(LC 12), 2=-24(LC 12), 5=-12(LC 12)  
Max Grav 4=123(LC 19), 2=276(LC 1), 5=88(LC 3)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.



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

May 13,2021

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



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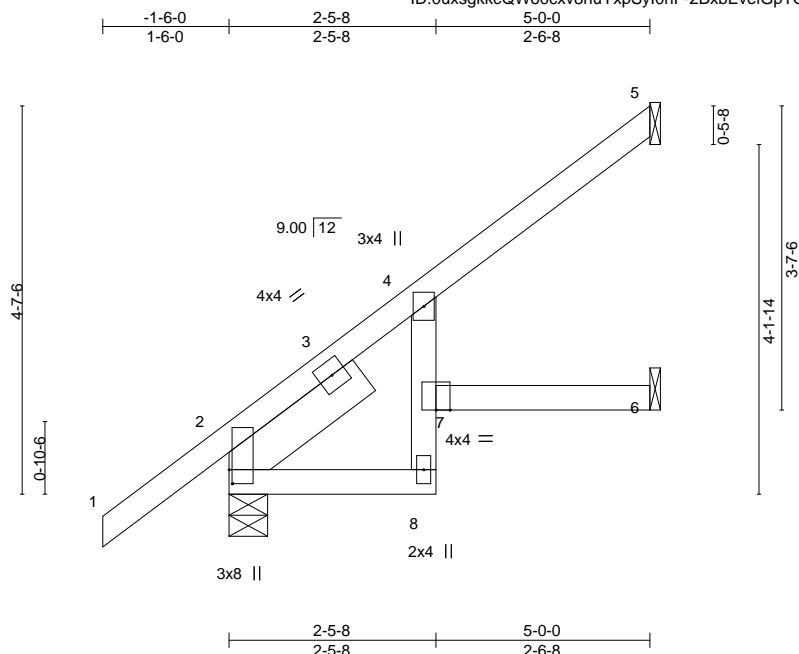
Job 2779092	Truss CJ05A	Truss Type Jack-Open	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. T23930950
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:46 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-2BxbEvelGpTODDNI?qZb5HE7vvW5mq6A2VQ3rzzHUIN



Scale = 1:27.4

Plate Offsets (X,Y)--		[2:0-2-0,0-0-7]							
<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 0.19	Vert(LL)	0.04 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.04 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.02 6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MR					Weight: 27 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
4-8: 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -t 1-11-8

#### BRACING-

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

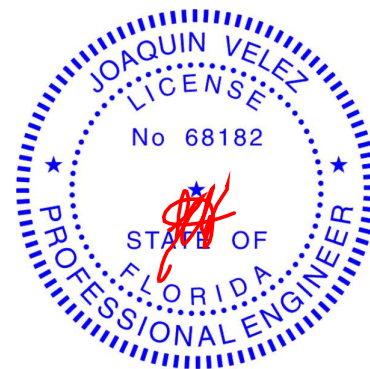
#### REACTIONS.

(size) 5=Mechanical, 2=0-5-8, 6=Mechanical  
Max Horz 2=161(LC 12)  
Max Uplift 5=75(LC 12), 2=24(LC 12), 6=31(LC 12)  
Max Grav 5=106(LC 19), 2=276(LC 1), 6=85(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 36610



Job 2779092	Truss EJ01	Truss Type Jack-Partial	Qty 9	Ply 1	IC CONST. - SCHEFFLER RES. T23930952
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:48 2021 Page 1					
Job Reference (optional)					

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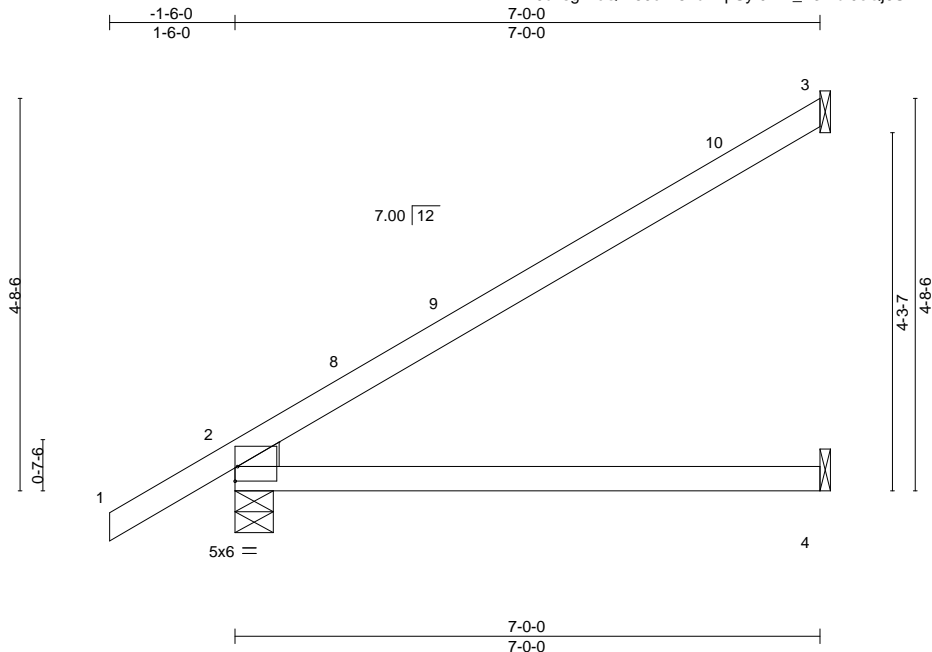


Plate Offsets (X,Y)--		[2:Edge,0-2-2]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	0.12	4-7	>671	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.22	4-7	>382	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.03	2	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS								
										Weight: 26 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 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.

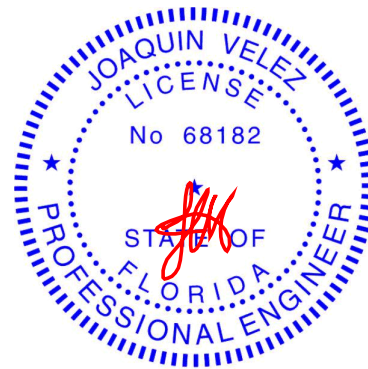
#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=159(LC 12)  
Max Uplift 3=-96(LC 12), 2=-61(LC 12), 4=-4(LC 12)  
Max Grav 3=171(LC 19), 2=346(LC 1), 4=126(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

May 13,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

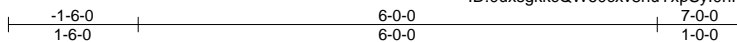


Job 2779092	Truss EJ02	Truss Type Jack-Closed	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930953
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:49 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-SlctjwgeZjr4h5Hgy6livscf7WizAbdkTfjSizHUIK



Scale = 1:26.6

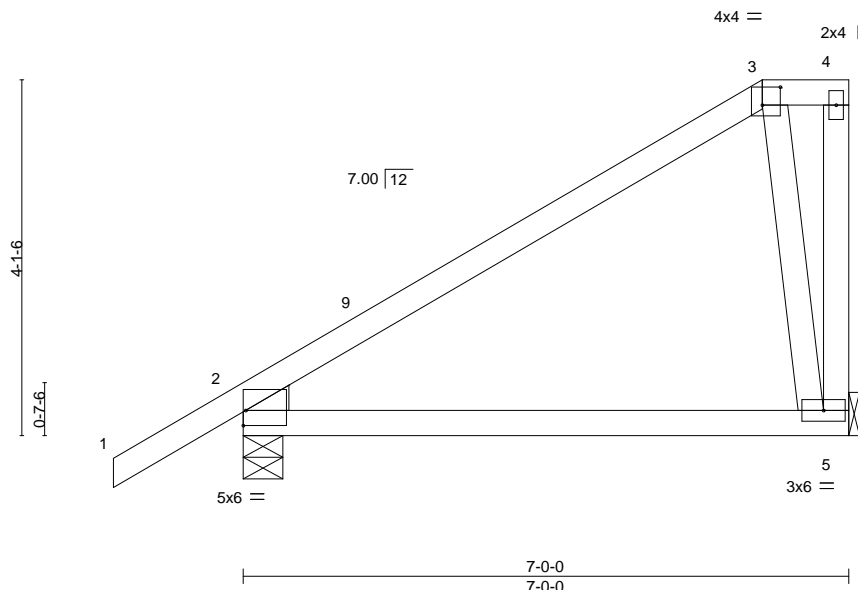


Plate Offsets (X,Y)--		[2:Edge,0-2-2], [3:0-2-8,0-2-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35
TCDL 7.0	Lumber DOL	1.25	BC 0.38
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.06 5-8 >999 240
			Vert(CT) -0.14 5-8 >582 180
			Horz(CT) 0.02 2 n/a n/a
			<b>PLATES</b> <b>GRIP</b>
			MT20 244/190
			Weight: 36 lb FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x4 SP No.3

#### 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.

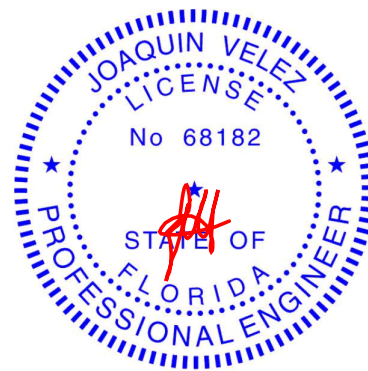
(size) 5=Mechanical, 2=0-5-8  
Max Horz 2=147(LC 12)  
Max Uplift 5=86(LC 12), 2=67(LC 12)  
Max Grav 5=245(LC 1), 2=343(LC 1)

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

WEBS 3-5=-259/204

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-0-0, Exterior(2E) 6-0-0 to 6-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 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) 5, 2.



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MiTek USA, Inc. FL Cert 6634  
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Date:

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss EJ03	Truss Type Jack-Open Girder	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930954
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:50 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-wyA64GhGK1zqirgTEgdXF7Pq0Xw9icxmz7OG\_kzHUIJ

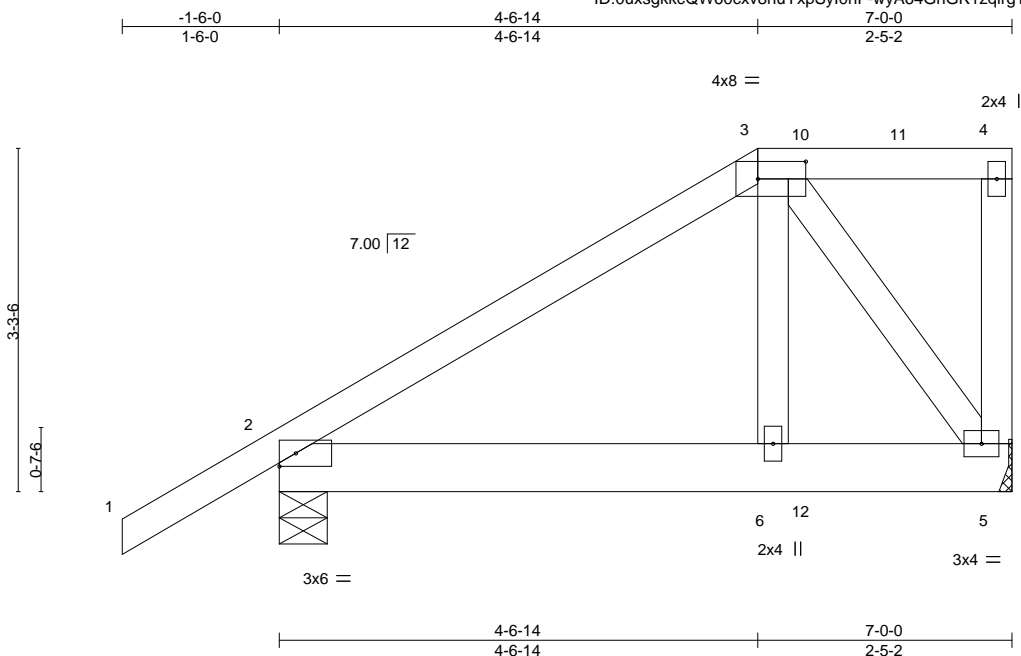


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0]

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 0.19	Vert(LL)	0.01 6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.01 6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	0.00 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
Weight: 43 lb									FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=0-5-8, 5=Mechanical  
Max Horz 2=118(LC 8)  
Max Uplift 2=-105(LC 8), 5=-122(LC 8)  
Max Grav 2=431(LC 1), 5=466(LC 1)

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

TOP CHORD 2-3=-391/71  
BOT CHORD 2-6=-93/282, 5-6=-94/296  
WEBS 3-6=-28/364, 3-5=-479/153

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=105, 5=122.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 87 lb up at 5-0-12 on top chord, and 135 lb down and 66 lb up at 4-6-14, and 85 lb down at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-54, 5-7=-20  
Concentrated Loads (lb)  
Vert: 6=-135(F) 10=-109(F) 12=-65(F)



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2779092	Truss EJ04	Truss Type Jack-Open	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930955
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:50 2021 Page 1  
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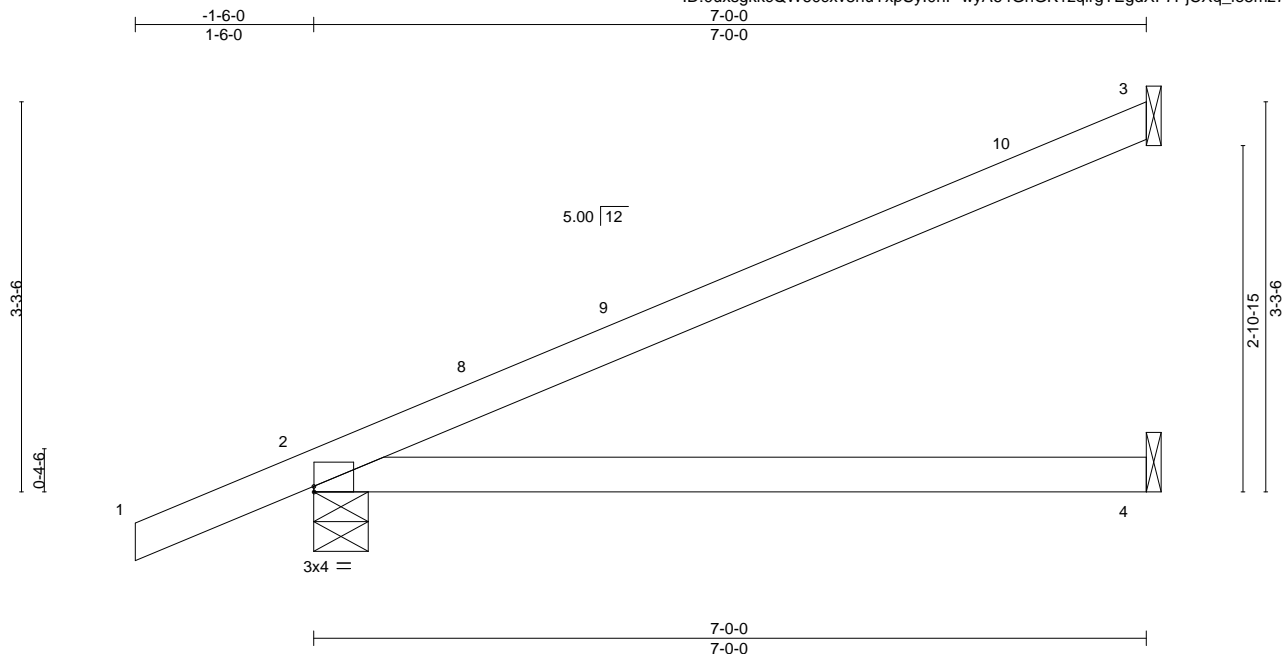


Plate Offsets (X,Y)--		[2:Edge,0-0-9]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62
TCDL 7.0	Lumber DOL	1.25	BC 0.51
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) 0.10 4-7 >838 240
			Vert(CT) -0.21 4-7 >392 180
			Horz(CT) 0.01 2 n/a n/a
			<b>PLATES</b> <b>GRIP</b>
			MT20 244/190
			Weight: 24 lb FT = 20%

#### LUMBER-

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

#### BRACING-

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

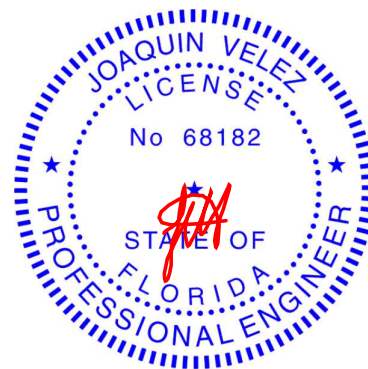
#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=114(LC 12)  
Max Uplift 3=78(LC 12), 2=85(LC 12)  
Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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

May 13,2021

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



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Tampa, FL 36610

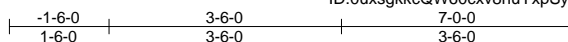
Job 2779092	Truss EJ05	Truss Type Jack-Partial	Qty 3	Ply 1	IC CONST. - SCHEFFLER RES. T23930956
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:51 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-O8kUichu5L5hJ\_FfoN8mnKy\_fwBzR40wCn8qWBZHUII



Scale = 1:34.7

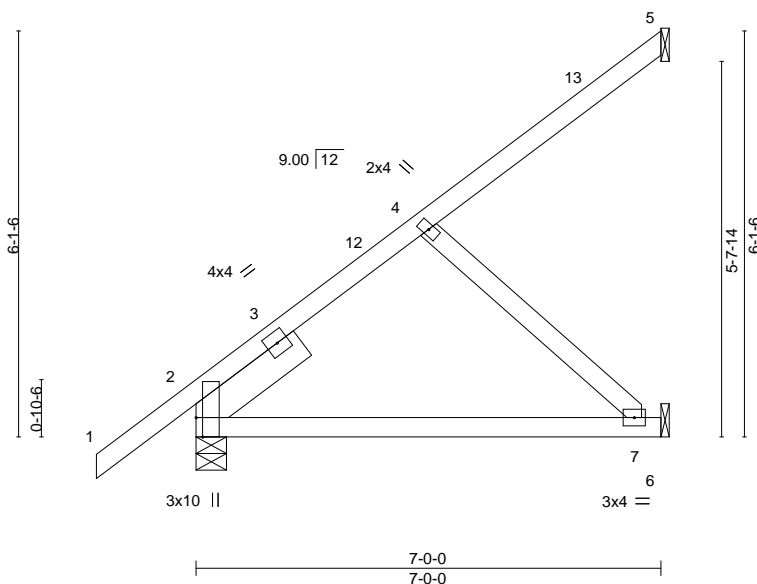


Plate Offsets (X,Y)--		[2:0-3-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	-0.07	7-10	>999	240	
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.13	7-10	>631	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	2	n/a	n/a	
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							
										Weight: 38 lb	FT = 20%

#### LUMBER-

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

#### 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.

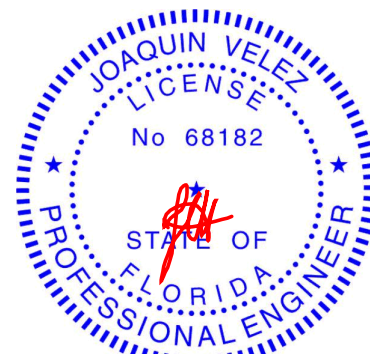
(size) 5=Mechanical, 2=0-5-8, 6=Mechanical  
Max Horz 2=205(LC 12)  
Max Uplift 5=51(LC 12), 2=29(LC 12), 6=81(LC 12)  
Max Grav 5=79(LC 19), 2=346(LC 1), 6=189(LC 19)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-522/1

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
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May 13,2021

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



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Tampa, FL 36610

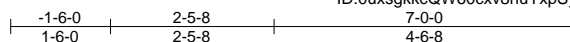
Job 2779092	Truss EJ06	Truss Type Jack-Partial	Qty 3	Ply 1	IC CONST. - SCHEFFLER RES. T23930957
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:52 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-sKlsVyiWseDYx8qsM5f?KYU9kKUKAWI3QRtN2dzHUIH



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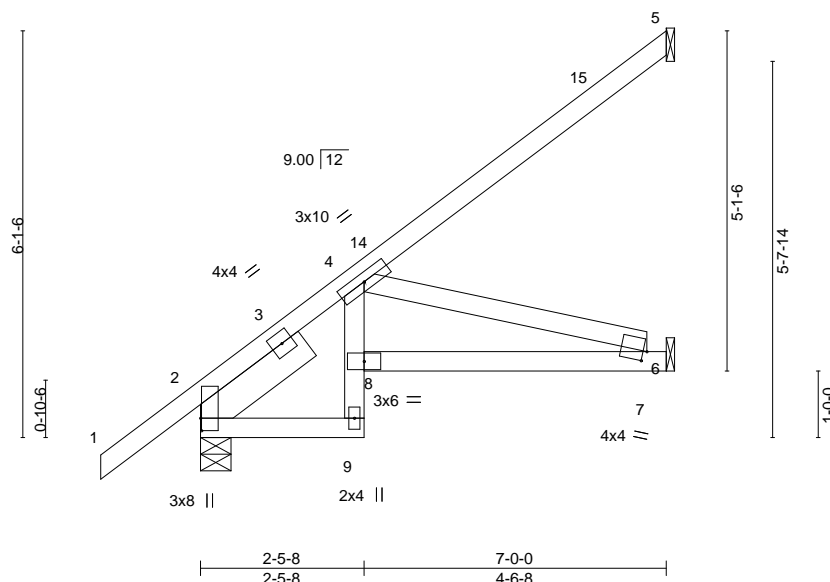


Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [7:0-0-11,0-1-13]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.03	7-8	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.06	7-8	>999	180	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	6	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 41 lb FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
4-9: 2x4 SP No.3  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-6-11 oc bracing.

#### REACTIONS.

(size) 5=Mechanical, 2=0-5-8, 6=Mechanical  
Max Horz 2=205(LC 12)  
Max Uplift 5=71(LC 12), 2=-29(LC 12), 6=-61(LC 12)  
Max Grav 5=111(LC 19), 2=346(LC 1), 6=157(LC 19)

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

BOT CHORD 7-8=-380/413  
WEBS 4-7=-430/396

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.



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MiTek USA, Inc. FL Cert 6634  
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Date:

May 13,2021

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Tampa, FL 36610

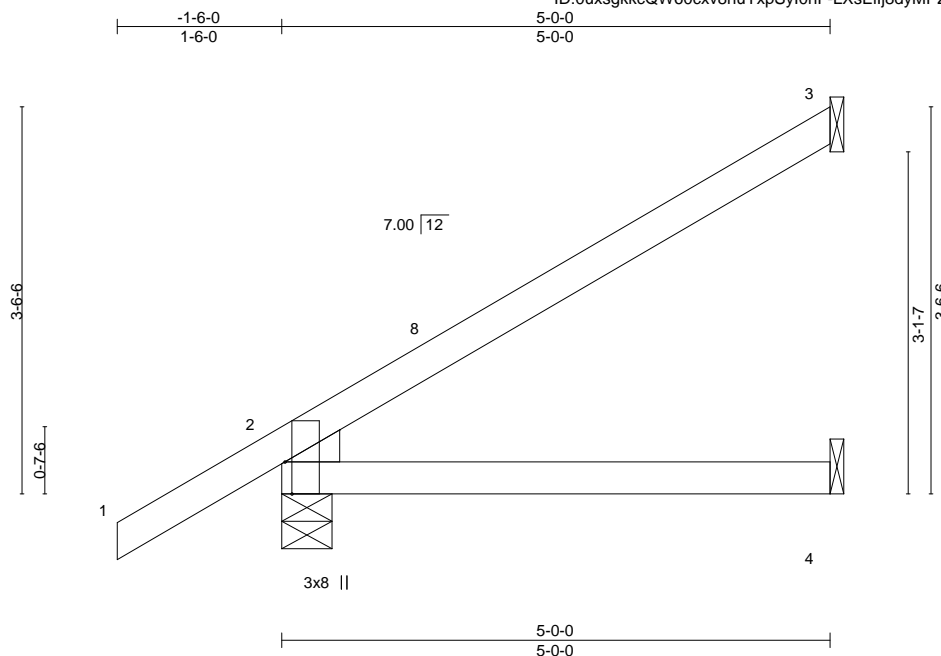
Job 2779092	Truss EJ07	Truss Type Jack-Partial	Qty 3	Ply 1	IC CONST. - SCHEFFLER RES. T23930958
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:53 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-LXsEiljdyMPZIP2voBEt11okwsv?rCf5dxb3zHUIG



Scale = 1:21.0

Plate Offsets (X,Y)--		[2:0-3-8,Edge]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.24	Vert(CT)	-0.05	4-7	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	3	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP								
										Weight: 20 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEDGE  
Left: 2x4 SP No.3

#### BRACING-

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

#### REACTIONS.

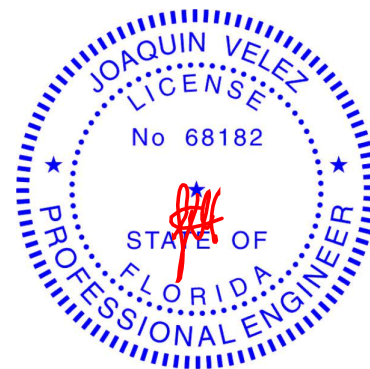
(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=125(LC 12)  
Max Uplift 3=75(LC 12), 2=52(LC 12), 4=4(LC 12)  
Max Grav 3=118(LC 19), 2=276(LC 1), 4=88(LC 3)

#### FORCES.

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.



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

May 13,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



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Tampa, FL 36610



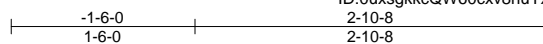
Job 2779092	Truss EJ08	Truss Type MONO TRUSS	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. T23930959
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

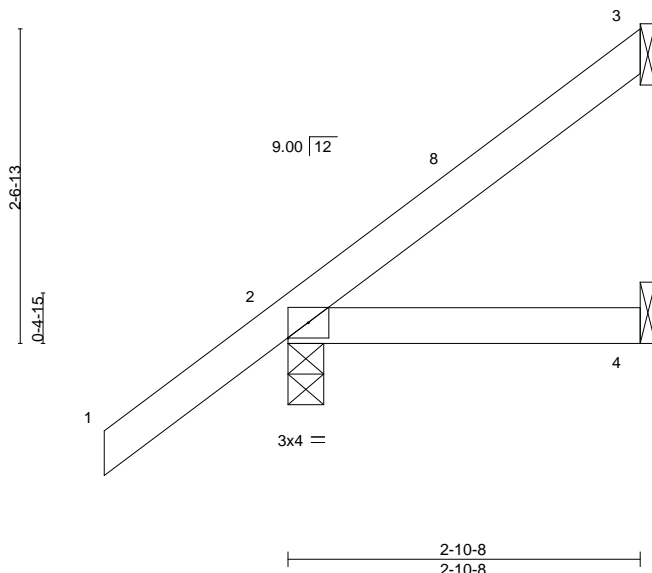
Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:53 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-LXsEiljdyMPZIP2voBEt118kyBv?rCf5dxb3zHUIG



Scale = 1:18.8



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 0.26	Vert(LL)	-0.00	4-7	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	-0.01	4-7	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						
									Weight: 13 lb FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=0-3-8, 4=Mechanical, 3=Mechanical  
Max Horz 2=106(LC 12)  
Max Uplift 2=-44(LC 12), 3=-46(LC 12)  
Max Grav 2=207(LC 1), 4=49(LC 3), 3=63(LC 19)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 2-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



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

May 13,2021

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

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



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Tampa, FL 36610

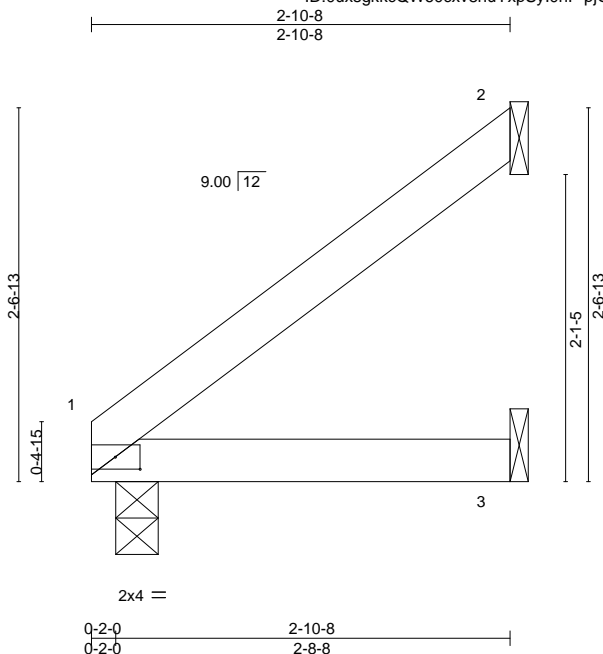
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930960
2779092	EJ09	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

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ID:0uxsgkkcQW60cxv8huYxpSyl0nF-pjQcweknOGUFAS\_ETWiTPzaWM8HDeS5MuIMU7VzHUIF



Scale = 1:15.8

Plate Offsets (X,Y)--	[1:0-2-1,0-1-0]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.10	Vert(LL)	0.01 3-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.01 3-6	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 10 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

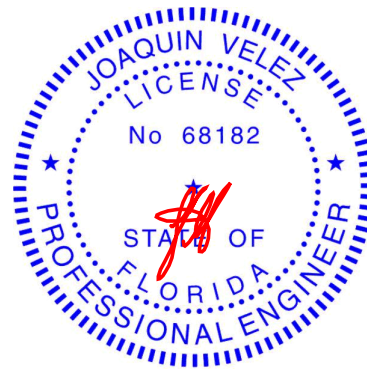
#### REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical  
Max Horz 1=73(LC 12)  
Max Uplift 2=52(LC 12), 3=5(LC 12)  
Max Grav 1=104(LC 1), 2=72(LC 19), 3=52(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 3.



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

May 13,2021

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



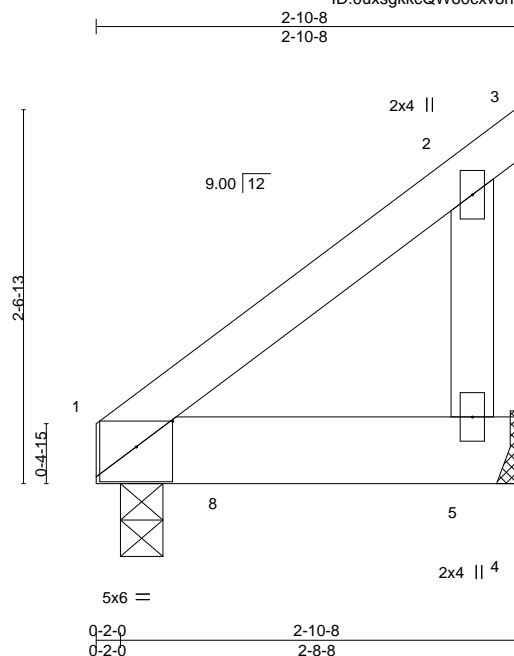
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2779092	Truss EJ10	Truss Type Jack-Open Girder	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930961
Job Reference (optional)					

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

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Scale = 1:15.8

Plate Offsets (X,Y)--		[1:0-3-0,0-2-2]													
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 0.25		Vert(LL)		-0.01 5-7 >999 240		MT20		244/190	
TCDL	7.0	Lumber DOL		1.25		BC 0.64		Vert(CT)		-0.02 5-7 >999 180					
BCLL	0.0 *	Rep Stress Incr		NO		WB 0.02		Horz(CT)		0.00 5 n/a n/a					
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MP						Weight: 15 lb		FT = 20%	

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 1=0-3-8, 5=Mechanical  
Max Horz 1=73(LC 8)  
Max Uplift 1=-156(LC 8), 5=-152(LC 8)  
Max Grav 1=844(LC 1), 5=533(LC 1)

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

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=156, 5=152.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1177 lb down and 266 lb up at 0-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-2=-54, 2-3=-14, 1-4=-20  
Concentrated Loads (lb)  
Vert: 8=-1177(F)



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss HJ07	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930962
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:56 2021 Page 1  
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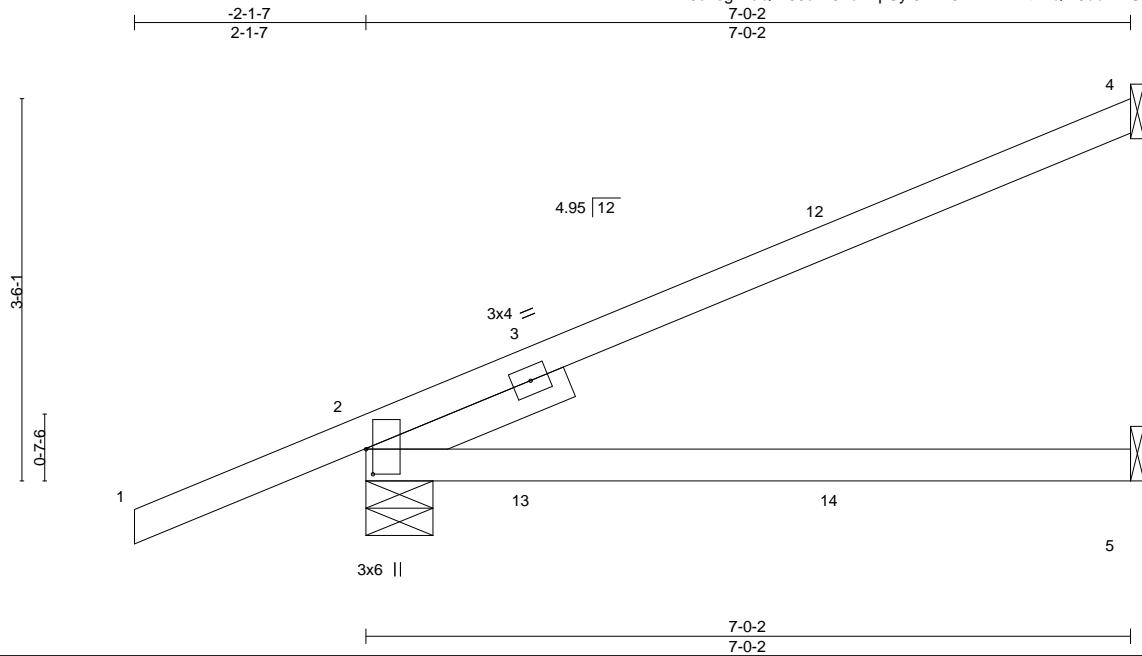


Plate Offsets (X,Y)--	[2:0-2-12,0-0-12]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	0.09 5-10	>892	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.50	Vert(CT)	-0.17 5-10	>485	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.03 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 28 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
SLIDER Left 2x4 SP No.3 -t 1-11-8

#### 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) 4=Mechanical, 2=0-7-6, 5=Mechanical  
Max Horz 2=124(LC 26)  
Max Uplift 4=94(LC 8), 2=154(LC 4), 5=13(LC 8)  
Max Grav 4=149(LC 1), 2=410(LC 1), 5=118(LC 3)

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

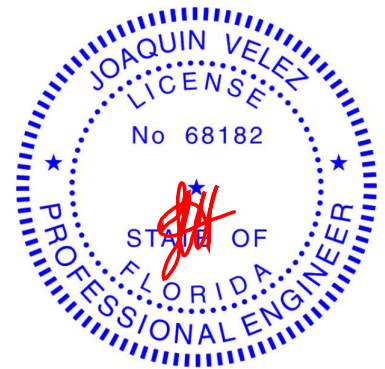
TOP CHORD 2-4=-237/253

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=154.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 60 lb down and 74 lb up at 1-6-1, 60 lb down and 74 lb up at 1-6-1, and 78 lb down and 44 lb up at 4-4-0, and 78 lb down and 44 lb up at 4-4-0 on top chord, and 13 lb down and 42 lb up at 1-6-1, 13 lb down and 42 lb up at 1-6-1, and 25 lb down and 10 lb up at 4-4-0, and 25 lb down and 10 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 5-6=-20  
Concentrated Loads (lb)  
Vert: 14=-7(F=-3, B=-3)



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

May 13, 2021

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

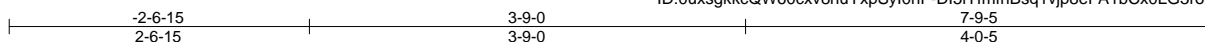


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930963
2779092	HJ08A	Diagonal Hip Girder	1	1	Job Reference (optional)	

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:30:57 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-Dl5lYfmhBsQ1vjp8eFA1bCx0LG3ro7oajb8kqzHUIC



Scale = 1:19.8

Plate Offsets (X,Y)--		[2:0-2-0,0-1-7]									
<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	0.46	Vert(LL)	-0.02	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(CT)	-0.04				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	-0.01				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 39 lb		FT = 20%	

#### LUMBER-

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

#### 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) 5=Mechanical, 2=0-8-7, 6=Mechanical  
Max Horz 2=130(LC 19)  
Max Uplift 5=-59(LC 4), 2=-190(LC 4), 6=-42(LC 8)  
Max Grav 5=103(LC 1), 2=478(LC 1), 6=182(LC 3)

#### FORCES.

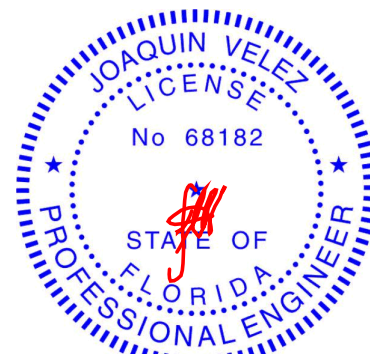
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-4=-341/173  
BOT CHORD 2-8=-119/293, 7-8=-119/293  
WEBS 4-7=-318/129

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 2=190.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 13 lb down and 13 lb up at 1-7-13, 57 lb down and 14 lb up at 2-10-12, and 38 lb down and 65 lb up at 5-1-2, and 74 lb down and 46 lb up at 5-4-4 on top chord, and 12 lb down and 3 lb up at 1-7-13, 11 lb down and 5 lb up at 2-10-12, and 32 lb down at 5-1-2, and 27 lb down and 10 lb up at 5-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S)

- Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-5=-54, 6-9=-20  
Concentrated Loads (lb)  
Vert: 16=-14(F=-11, B=-2) 17=3(F) 18=5(B) 19=-25(F=-19, B=-5)



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

May 13, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610



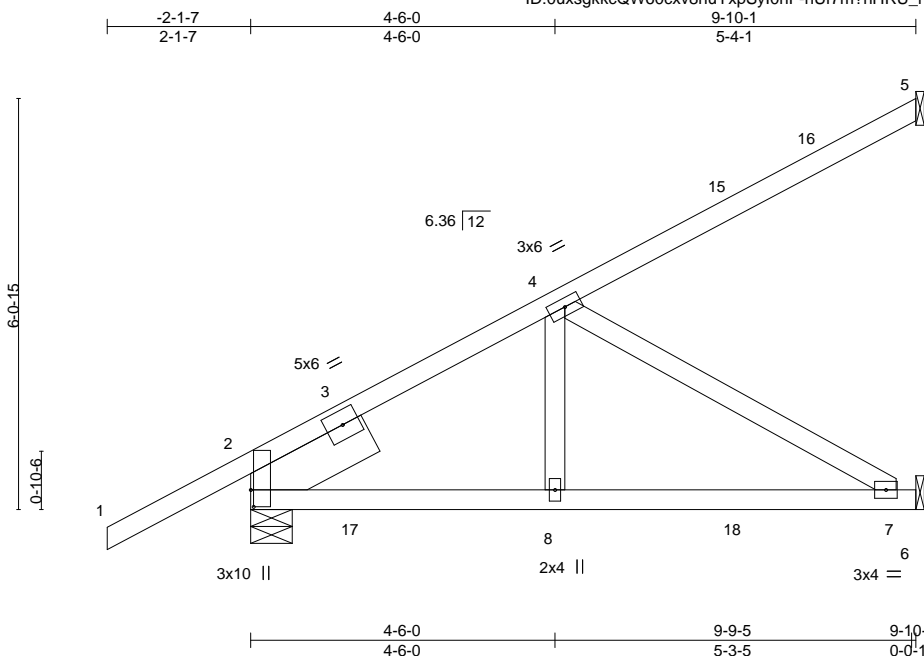
Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930964
2779092	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

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ID:0uxsgkkcQW60cxv8huYxpSyl0nF-hUf7m?nHRU\_hf3H?iLmPapk3slYyaCOxpNKiGHZHU1B



Scale = 1:34.1

Plate Offsets (X,Y)-- [2:0-3-0,0-0-8]												
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	0.64	Vert(LL)	0.07	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.12	7-8	>969	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	-0.03	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 53 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x8 SP 2400F 2.0E -1 1-11-8

#### 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) 5=Mechanical, 2=0-7-6, 6=Mechanical  
 Max Horz 2=204(LC 8)  
 Max Uplift 5=110(LC 8), 2=237(LC 8), 6=168(LC 8)  
 Max Grav 5=155(LC 1), 2=502(LC 32), 6=294(LC 32)

#### FORCES.

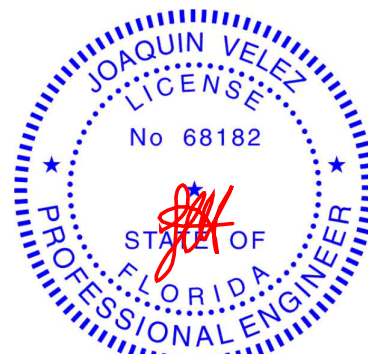
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-513/277  
 BOT CHORD 2-8=-295/390, 7-8=-295/390  
 WEBS 4-7=-452/341

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=110, 2=237, 6=168.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 117 lb up at 1-6-1, 56 lb down and 117 lb up at 1-6-1, 83 lb down and 72 lb up at 4-4-0, 83 lb down and 72 lb up at 4-4-0, and 114 lb down and 120 lb up at 7-1-15, and 114 lb down and 120 lb up at 7-1-15 on top chord, and 9 lb down and 43 lb up at 1-6-1, 9 lb down and 43 lb up at 1-6-1, 25 lb down and 12 lb up at 4-4-0, 25 lb down and 12 lb up at 4-4-0, and 49 lb down and 27 lb up at 7-1-15, and 49 lb down and 27 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-54, 6-9=-20  
 Concentrated Loads (lb)  
 Vert: 8=3(F=2, B=2) 3=60(F=30, B=30) 15=-69(F=-35, B=-35) 18=-62(F=-31, B=-31)



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

May 13, 2021

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

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930965
2779092	HJ10A	Diagonal Hip Girder	1	1	Job Reference (optional)	

**LOAD CASE(S)** Standard
Concentrated Loads (lb)
Vert: 3=60(F=30, B=30) 19=-40(F=-20, B=-20) 22=-48(F=-24, B=-24) 23=-91(F=-46, B=-46)

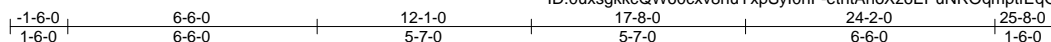


Job 2779092	Truss T01	Truss Type Common	Qty 9	Ply 1	IC CONST. - SCHEFFLER RES. T23930966
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8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:00 2021 Page 1

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4x6 ||

Scale = 1:60.1

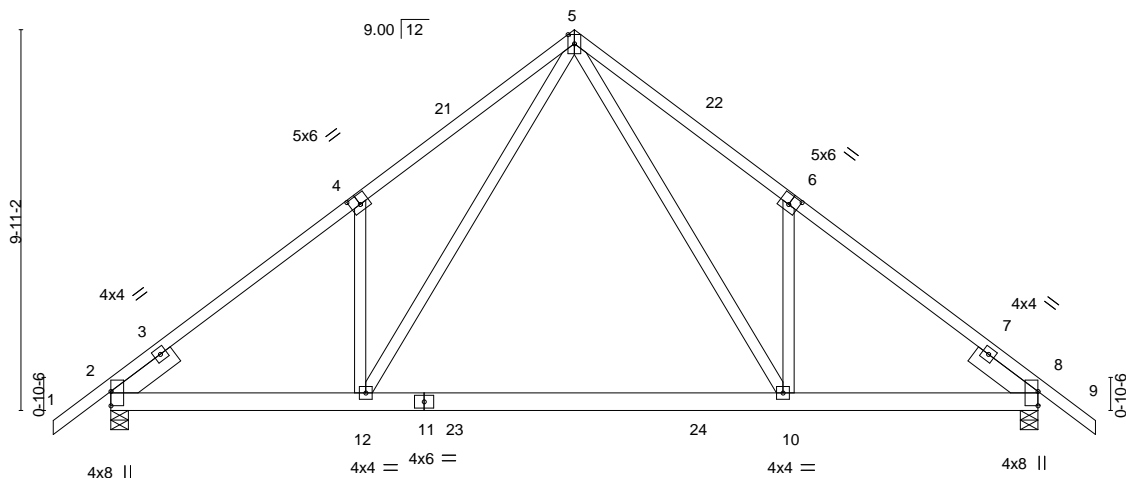


Plate Offsets (X,Y)--	[2:Edge,0-0-0], [4:0-3-0,0-3-0], [6:0-3-0,0-3-0], [8:Edge,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.28 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.52 10-12	>555	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 163 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 8-11: 2x6 SP M 26  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 2=0-5-8, 8=0-5-8  
 Max Horz 2=224(LC 11)  
 Max Uplift 2=292(LC 12), 8=292(LC 13)  
 Max Grav 2=1441(LC 19), 8=1441(LC 20)

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

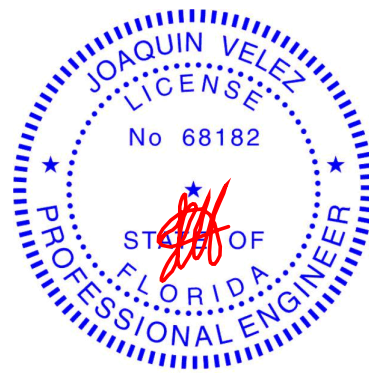
TOP CHORD 2-4=-1897/374, 4-5=-1934/561, 5-6=-1972/564, 6-8=-1933/377  
 BOT CHORD 2-12=-314/1589, 10-12=-113/978, 8-10=-214/1505  
 WEBS 5-10=-394/1258, 6-10=-294/268, 5-12=-389/1198, 4-12=-293/270

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 25-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=292, 8=292.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-54, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20



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

May 13, 2021

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

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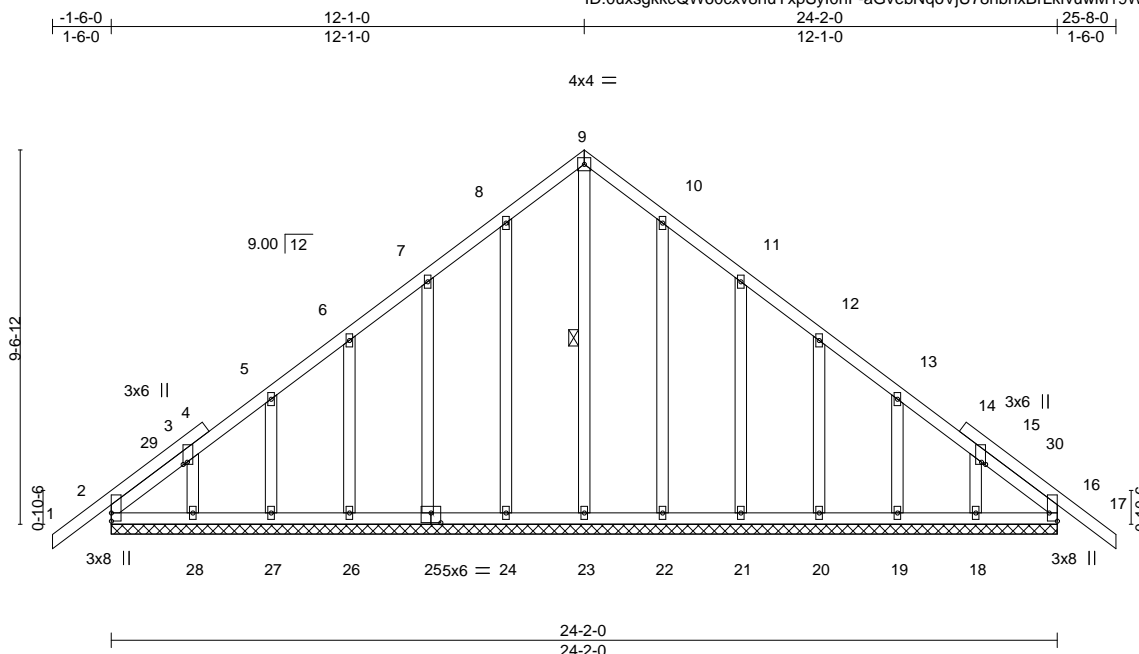
6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2779092	Truss T01G	Truss Type Common Supported Gable	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930967
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8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:02 2021 Page 1

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Scale = 1:58.9

Plate Offsets (X,Y)-- [3:0-0-11,0-1-4], [15:0-0-11,0-1-4], [16:Edge,0-2-8], [25:0-3-0,0-3-0]															
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>2-0-0</b>		<b>CSI.</b>		<b>DEFL.</b>		<b>in (loc) l/defl L/d</b>		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	17	n/r	120		MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.01	17	n/r	120					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	16	n/a	n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S								Weight: 176 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" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.  
WEBS 1 Row at midpt 9-23

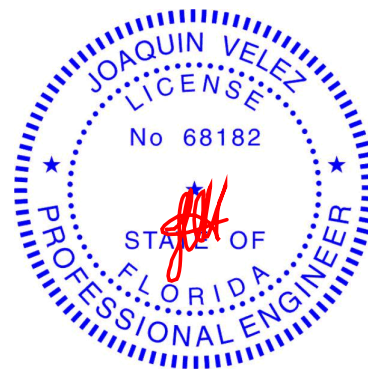
#### REACTIONS.

- All bearings 24-2-0.  
(lb) - Max Horz 2=216(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 25, 26, 27, 22, 21, 20, 19, 18 except 28=103(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 25, 26, 27, 28, 22, 21, 20, 19, 18

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 12-1-0, Corner(3R) 12-1-0 to 15-1-0, Exterior(2N) 15-1-0 to 25-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" 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" tall by 2'-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, 16, 24, 25, 26, 27, 22, 21, 20, 19, 18 except (jt=lb) 28=103.



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

May 13,2021

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



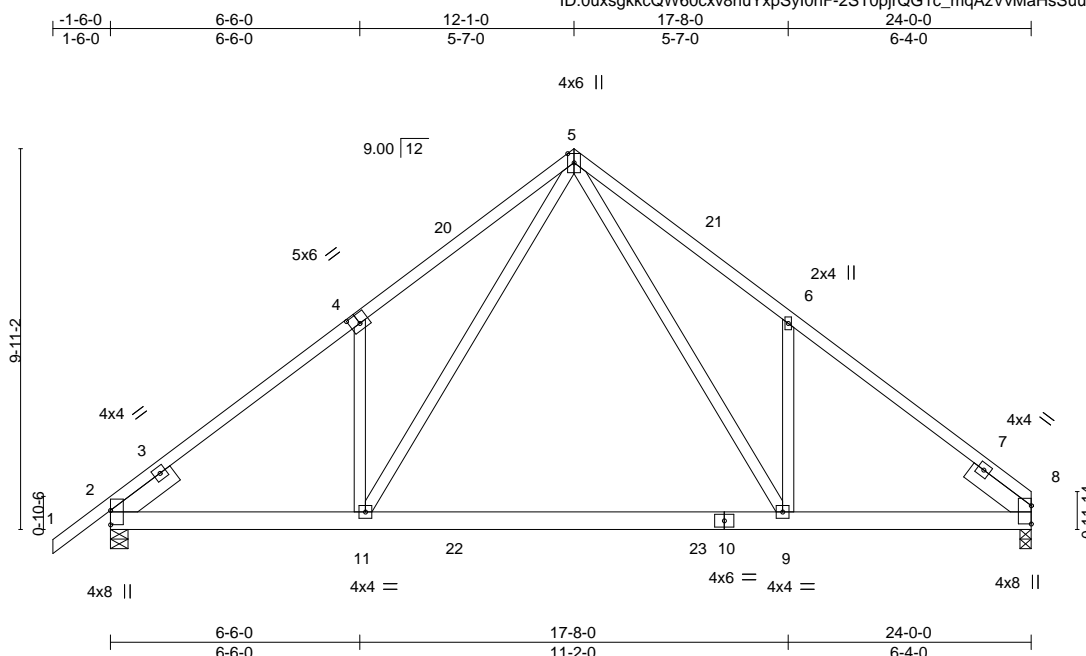
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T02	Truss Type Common	Qty 15	Ply 1	IC CONST. - SCHEFFLER RES. T23930968
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8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:03 2021 Page 1

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Scale = 1:60.1

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [4:0-3-0,0-3-0]															
<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	0.82	Vert(LL)	-0.28	9-11	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL		1.25		BC	0.86	Vert(CT)	-0.53	9-11	>542	180			
BCLL	0.0 *	Rep Stress Incr		NO		WB	0.91	Horz(CT)	0.04	8	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MS							Weight: 160 lb	FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP M 26 \*Except\*  
 8-10: 2x6 SP No.2  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 8=0-3-8, 2=0-5-8  
 Max Horz 2=216(LC 9)  
 Max Uplift 8=258(LC 13), 2=291(LC 12)  
 Max Grav 8=1359(LC 20), 2=1433(LC 19)

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

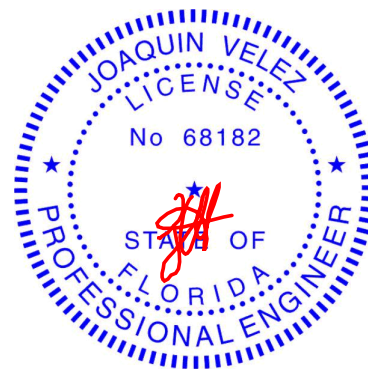
TOP CHORD 2-4=-1924/376, 4-5=-1962/562, 5-6=-1898/561, 6-8=-1860/371  
 BOT CHORD 2-11=-334/1598, 9-11=-130/954, 8-9=-224/1428  
 WEBS 4-11=-294/269, 5-11=-394/1263, 5-9=-390/1163, 6-9=-285/270

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=258, 2=291.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-54, 5-8=-54, 11-16=-20, 9-11=-80(F=-60), 9-12=-20



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

May 13, 2021

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

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



6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930969
2779092	T03	Hip Girder	1	1		

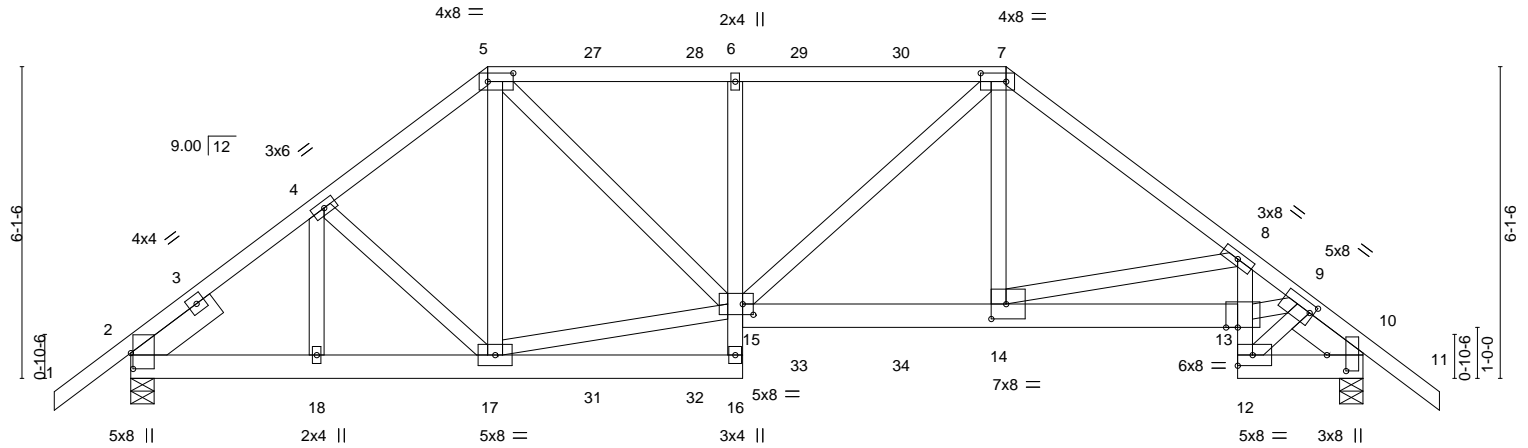
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:05 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-\_qamEPsgoesi?8KLcKO2MHXH5auBjC?zQyXZ0NzHUI4

-1-6-0	3-7-12	7-0-0	12-0-0	17-2-0	21-8-8	23-0-0	24-2-0	25-8-0
1-6-0	3-7-12	3-4-4	5-0-0	5-2-0	4-6-8	1-3-8	1-2-0	1-6-0

Scale = 1:45.2



	3-7-12	7-0-0	12-0-0	17-2-0	21-8-8	24-2-0	
	3-7-12	3-4-4	5-0-0	5-2-0	4-6-8	2-5-8	

Plate Offsets (X,Y)-- [2:0-3-12,0-0-8], [5:0-6-0,0-2-0], [7:0-6-0,0-2-0], [9:0-1-0,0-2-0], [10:0-3-12,0-4-8], [13:0-2-12,0-0-0], [14:0-3-8,0-3-8], [15:0-2-8,0-2-8]									
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	0.58	Vert(LL)	0.14 14-15 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.21 14-15 >999 180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.10 10 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 184 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2 \*Except\*  
 6-16: 2x4 SP No.3, 8-12: 2x4 SP M 31  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-5-1

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-4-6 oc bracing.

#### REACTIONS.

(size) 2=0-5-8, 10=0-5-8  
 Max Horz 2=141(LC 25)  
 Max Uplift 2=769(LC 8), 10=799(LC 9)  
 Max Grav 2=1761(LC 1), 10=1794(LC 1)

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

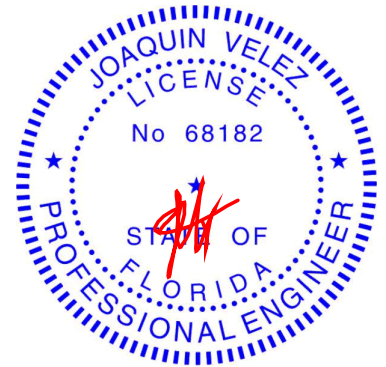
TOP CHORD 2-4=2181/1007, 4-5=2239/1107, 5-6=2560/1267, 6-7=2580/1276, 7-8=2807/1335,  
 8-9=3554/1598, 9-10=867/417  
 BOT CHORD 2-18=790/1682, 17-18=790/1682, 15-16=97/253, 6-15=405/252, 14-15=988/2210,  
 13-14=1329/3069, 12-13=523/1301, 8-13=161/496, 10-12=563/1338  
 WEBS 4-17=261/296, 5-17=186/402, 15-17=752/1591, 5-15=552/1142, 7-15=296/556,  
 7-14=479/976, 8-14=916/441, 9-13=1055/2491, 9-12=1372/560

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=769, 10=799.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 54 lb up at 7-0-0, 68 lb down and 52 lb up at 9-0-12, 68 lb down and 52 lb up at 11-0-12, 89 lb down and 76 lb up at 13-1-4, and 89 lb down and 76 lb up at 15-1-4, and 89 lb down and 78 lb up at 17-2-0 on top chord, and 409 lb down and 298 lb up at 7-0-0, 158 lb down and 101 lb up at 9-0-12, 158 lb down and 101 lb up at 11-0-12, 129 lb down and 81 lb up at 13-1-4, and 129 lb down and 81 lb up at 15-1-4, and 454 lb down and 348 lb up at 17-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

Continued on page 2



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

May 13,2021

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

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6904 Parke East Blvd.  
 Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930969
2779092	T03	Hip Girder	1	1	Job Reference (optional)	

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-5=-54, 5-7=-54, 7-11=-54, 16-19=-20, 13-15=-20, 12-23=-20

Concentrated Loads (lb)

Vert: 5=-20(F) 7=-48(F) 17=-390(F) 14=-450(F) 27=-20(F) 28=-20(F) 29=-48(F) 30=-48(F) 31=-154(F) 32=-154(F) 33=-126(F) 34=-126(F)

Job 2779092	Truss T04	Truss Type Hip	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930970
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

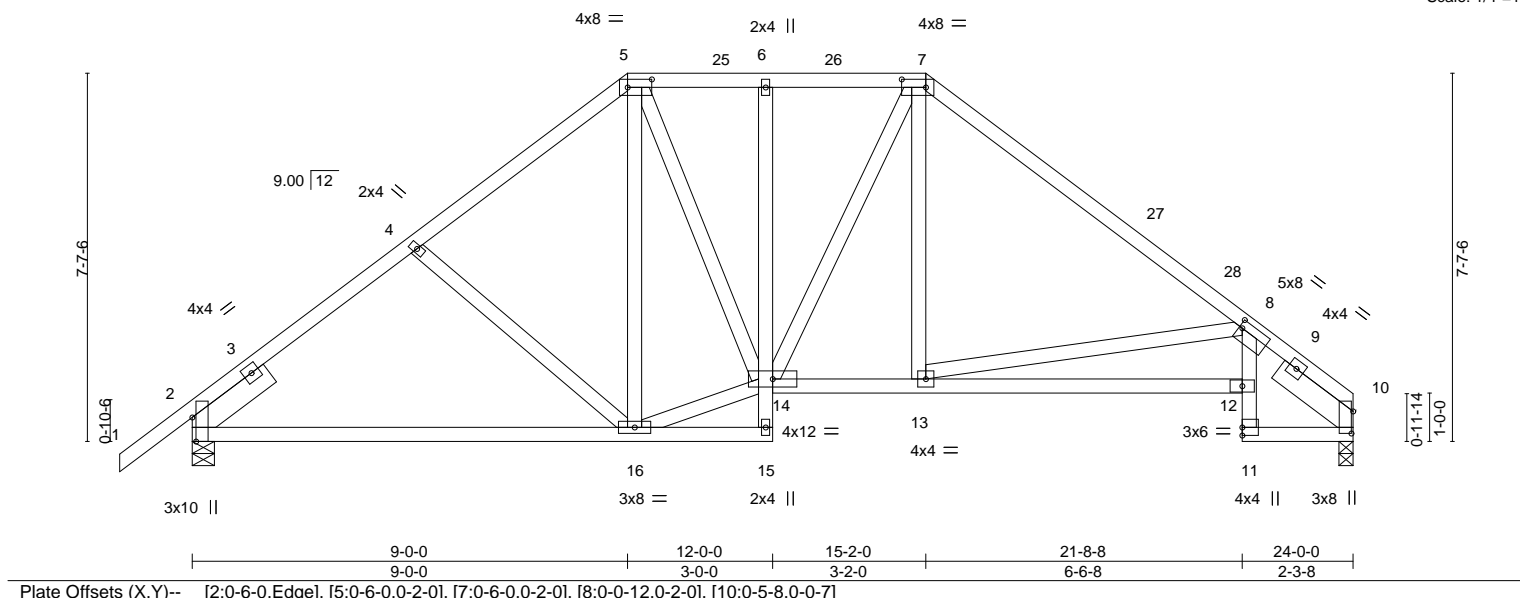
8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:06 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-S189RktlZy\_YdlvYA1wHuV3U\_zFuSjv7ecG7YpzHUI3

Job Reference (optional)

-1-6-0	4-7-12	9-0-0	12-0-0	15-2-0	21-8-8	24-0-0
1-6-0	4-7-12	4-4-4	3-0-0	3-2-0	6-6-8	2-3-8

Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.11 16-23	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.62	Vert(CT)	-0.23 16-23	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 165 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 6-15: 2x4 SP No.3, 8-11: 2x4 SP M 31  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-2 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 14-15  
 9-10-4 oc bracing: 12-13.

#### REACTIONS.

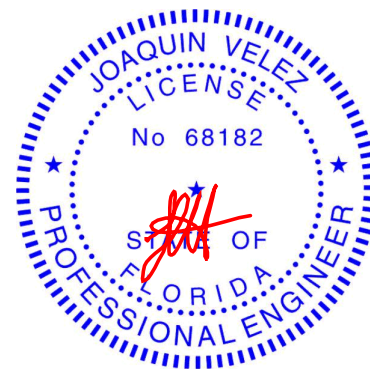
(size) 10=0-3-8, 2=0-5-8  
 Max Horz 2=166(LC 9)  
 Max Uplift 10=-180(LC 13), 2=-211(LC 12)  
 Max Grav 10=885(LC 1), 2=972(LC 1)

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

TOP CHORD 2-4=-1081/244, 4-5=-940/232, 5-6=-836/234, 6-7=-838/234, 7-8=-1126/225,  
 8-10=-1081/246  
 BOT CHORD 2-16=-224/815, 13-14=-71/812, 12-13=-360/1496, 10-11=-154/742  
 WEBS 14-16=-109/704, 5-14=-92/382, 7-13=-29/357, 8-13=-712/351

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 15-2-0, Exterior(2R) 15-2-0 to 19-4-15, Interior(1) 19-4-15 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=180, 2=211.



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

May 13, 2021

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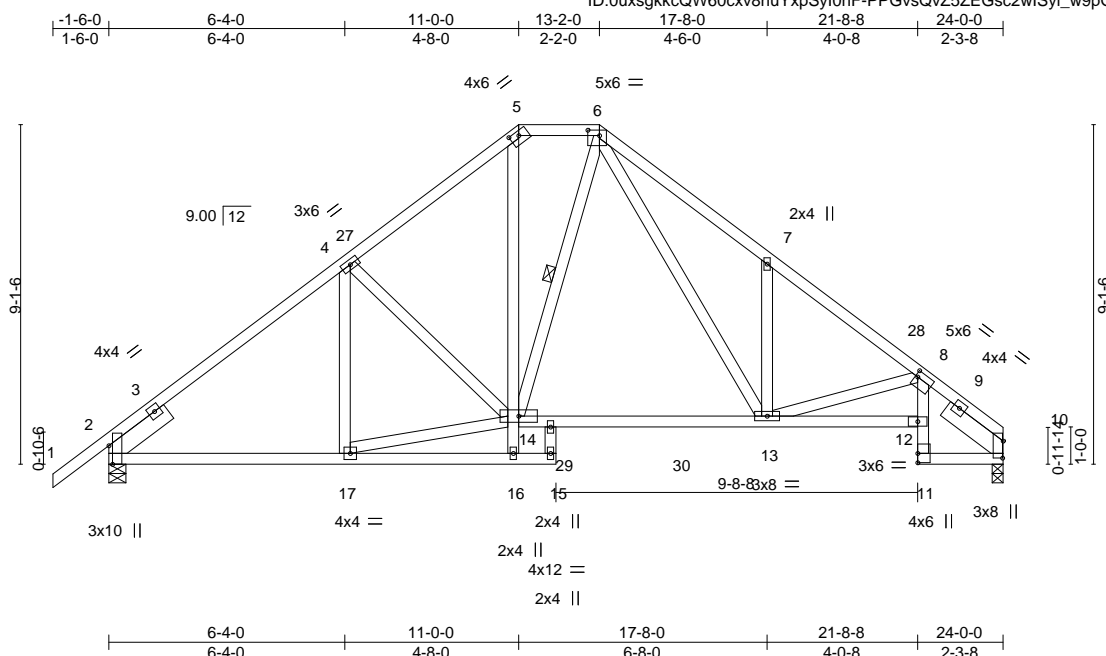
6904 Parke East Blvd.  
 Tampa, FL 36610

Job 2779092	Truss T05	Truss Type Hip	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930971
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:08 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-PPGvsQvZ5ZEGsc2wSyl\_w9pGnxlwh9Q6wIDdzHU11



Scale = 1:61.8

Plate Offsets (X,Y)-- [2:0-6-0,Edge], [5:0-2-15,0-1-6], [6:0-3-12,0-1-12], [8:0-0-12,0-2-0], [10:0-5-8,0-0-3]												
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	0.52	Vert(LL)	-0.14	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(CT)	-0.25	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.10	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 170 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 5-16: 2x4 SP No.3, 8-11: 2x4 SP M 31  
 WEBS 2x4 SP No.3  
 SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 16-17.  
 10-0-0 oc bracing: 14-16  
 WEBS 1 Row at midpt 6-14

#### REACTIONS.

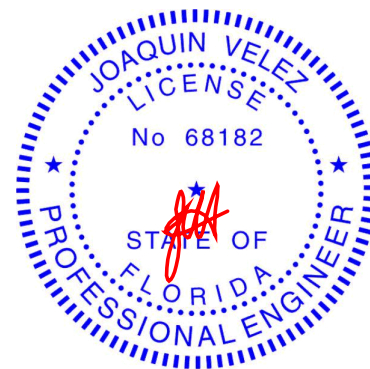
(size) 10=0-3-8, 2=0-5-8  
 Max Horz 2=199(LC 9)  
 Max Uplift 10=-159(LC 13), 2=-193(LC 12)  
 Max Grav 10=1006(LC 20), 2=1081(LC 19)

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

TOP CHORD 2-4=-1202/203, 4-5=-1070/229, 5-6=-800/221, 6-7=-1500/376, 7-8=-1433/220,  
 8-10=-1220/210  
 BOT CHORD 2-17=-192/1012, 5-14=-96/474, 13-14=-47/806, 12-13=-222/1479, 10-11=-115/809  
 WEBS 14-17=-191/1058, 6-13=-268/812, 7-13=-302/222, 8-13=-416/166

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2E) 11-0-0 to 13-2-0, Exterior(2R) 13-2-0 to 17-8-0, Interior(1) 17-8-0 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=159, 2=193.



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

May 13, 2021

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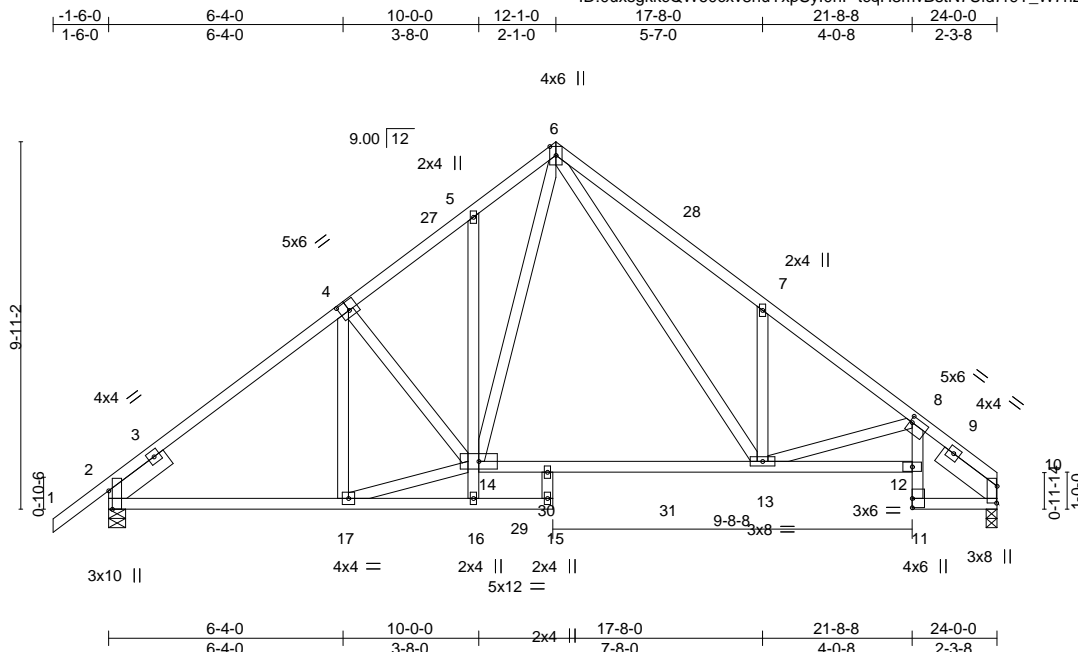


6904 Parke East Blvd.  
 Tampa, FL 33610

Job 2779092	Truss T06	Truss Type Roof Special	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930972
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8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:09 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-tcqH3mvBstN7Uld7r9T\_W7hgzgBFvF5HZLaVn98zHUI0



Scale = 1:62.2

Plate Offsets (X,Y)--	[2:0-6-0,Edge], [4:0-3-0,0-3-0], [8:0-0-12,0-2-0], [10:0-5-8,0-0-3]								
<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 0.54	Vert(LL) -0.21	13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25		BC 0.73	Vert(CT) -0.36	13-14	>809	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.61	Horz(CT) 0.10	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 171 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
5-16: 2x4 SP No.3, 8-11: 2x4 SP M 31  
WEBS 2x4 SP No.3  
SLIDER Left 2x6 SP No.2 -t 1-11-8, Right 2x6 SP No.2 -t 1-11-8

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
6-0-0 oc bracing: 16-17.  
10-0-0 oc bracing: 14-16

#### REACTIONS.

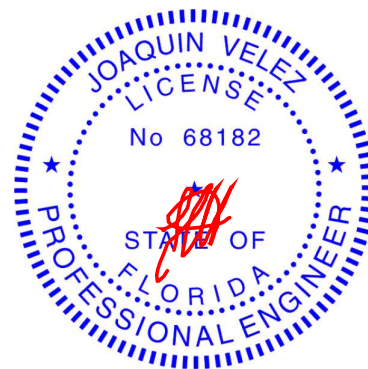
(size) 10=0-3-8, 2=0-5-8  
Max Horz 2=216(LC 9)  
Max Uplift 10=-160(LC 13), 2=-193(LC 12)  
Max Grav 10=1050(LC 20), 2=1132(LC 19)

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

TOP CHORD 2-4=-1265/215, 4-5=-1247/249, 5-6=-1226/308, 6-7=-1617/404, 7-8=-1521/247,  
8-10=-1279/212  
BOT CHORD 2-17=-201/1078, 13-14=-50/829, 12-13=-221/1527, 10-11=-118/846  
WEBS 14-17=-189/1255, 6-14=-208/855, 6-13=-304/912, 7-13=-336/254, 8-13=-379/151

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-1-0, Exterior(2R) 12-1-0 to 15-1-0, Interior(1) 15-1-0 to 24-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=160, 2=193.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930973
2779092	T07	Roof Special Girder	1	1		

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Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:11 2021 Page 1
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-p\_x2USxROUdrj3nVzaVSbYnGx\_1U7?fsou\_uD0zHUL\_

4-5-14

8-10-1

13-2-3

17-8-1

22-4-9

28-0-14

29-6-14

4-5-14

4-4-2

4-4-2

4-5-14

4-8-8

5-8-5

1-6-0

Scale = 1:49.0

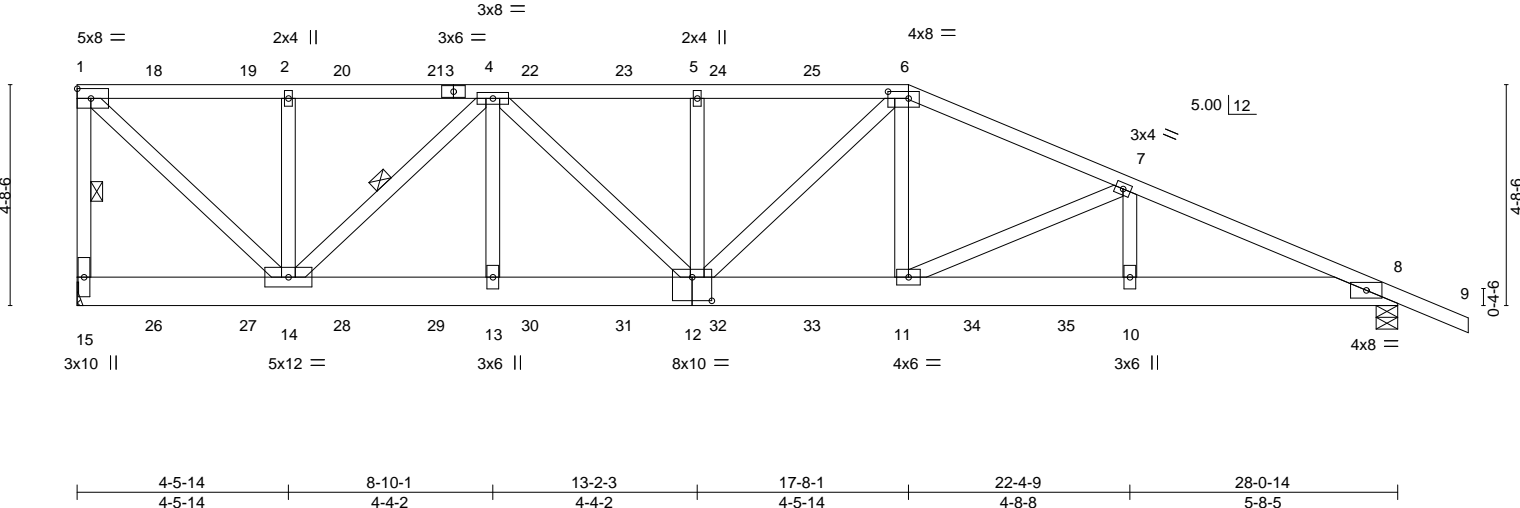


Plate Offsets (X,Y)-- [6:0-5-4,0-1-12], [12:0-5-0,0-6-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.16 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.34	Vert(CT)	-0.30 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.62	Horz(CT)	0.05 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 204 lb	FT = 20%

**LUMBER-**  
TOP CHORD 2x4 SP No.2  
BOT CHORD 2x8 SP 2400F 2.0E  
WEBS 2x4 SP No.3 \*Except\*  
1-14,4-14,4-12,6-12: 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 1-15, 4-14

**REACTIONS.** (size) 15=Mechanical, 8=0-5-8  
Max Horz 15=-168(LC 9)  
Max Uplift 15=-799(LC 5), 8=-667(LC 9)  
Max Grav 15=2234(LC 1), 8=2145(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-2094/778, 1-2=-1981/707, 2-4=-1981/707, 4-5=-3744/1308, 5-6=-3757/1315, 6-7=-3980/1318, 7-8=-4734/1473  
BOT CHORD 13-14=-1047/3271, 12-13=-1047/3271, 11-12=-1120/3662, 10-11=-1285/4325, 8-10=-1285/4325  
WEBS 1-14=-973/2737, 2-14=-507/288, 4-14=-1804/637, 4-13=-43/406, 4-12=-222/670, 5-12=-500/286, 6-11=-271/1024, 7-11=-772/260, 7-10=-58/400

**NOTES-**  
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60  
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.  
3) 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) Refer to girder(s) for truss to truss connections.  
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=799, 8=667.  
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 1-7-6, 125 lb down and 100 lb up at 3-7-6, 125 lb down and 100 lb up at 5-7-6, 125 lb down and 100 lb up at 7-7-6, 125 lb down and 100 lb up at 9-7-5, 125 lb down and 100 lb up at 11-7-5, 125 lb down and 100 lb up at 13-7-5, and 125 lb down and 100 lb up at 15-7-5, and 122 lb down and 100 lb up at 17-8-1 on top chord, and 86 lb down and 24 lb up at 1-7-6, 86 lb down and 24 lb up at 3-7-6, 86 lb down and 24 lb up at 5-7-6, 86 lb down and 24 lb up at 7-7-6, 86 lb down and 24 lb up at 9-7-5, 86 lb down and 24 lb up at 11-7-5, 86 lb down and 24 lb up at 13-7-5, 86 lb down and 24 lb up at 15-7-5, 86 lb down and 24 lb up at 17-7-5, and 225 lb down and 106 lb up at 19-0-2, and 446 lb down and 142 lb up at 21-0-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.  
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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

LOAD CASE(S) Standard

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

6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930973
2779092	T07	Roof Special Girder	1	1	Job Reference (optional)	

**LOAD CASE(S)**
Standard

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

Uniform Loads (plf)

Vert: 1-6=-54, 6-9=-54, 8-15=-20

Concentrated Loads (lb)

Vert: 6=-109(F) 11=-65(F) 18=-109(F) 19=-109(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-65(F) 27=-65(F) 28=-65(F) 29=-65(F) 30=-65(F) 31=-65(F) 32=-65(F) 33=-65(F) 34=-225(F) 35=-446(F)



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930974
2779092	T08	Hip	1	1	Job Reference (optional)	

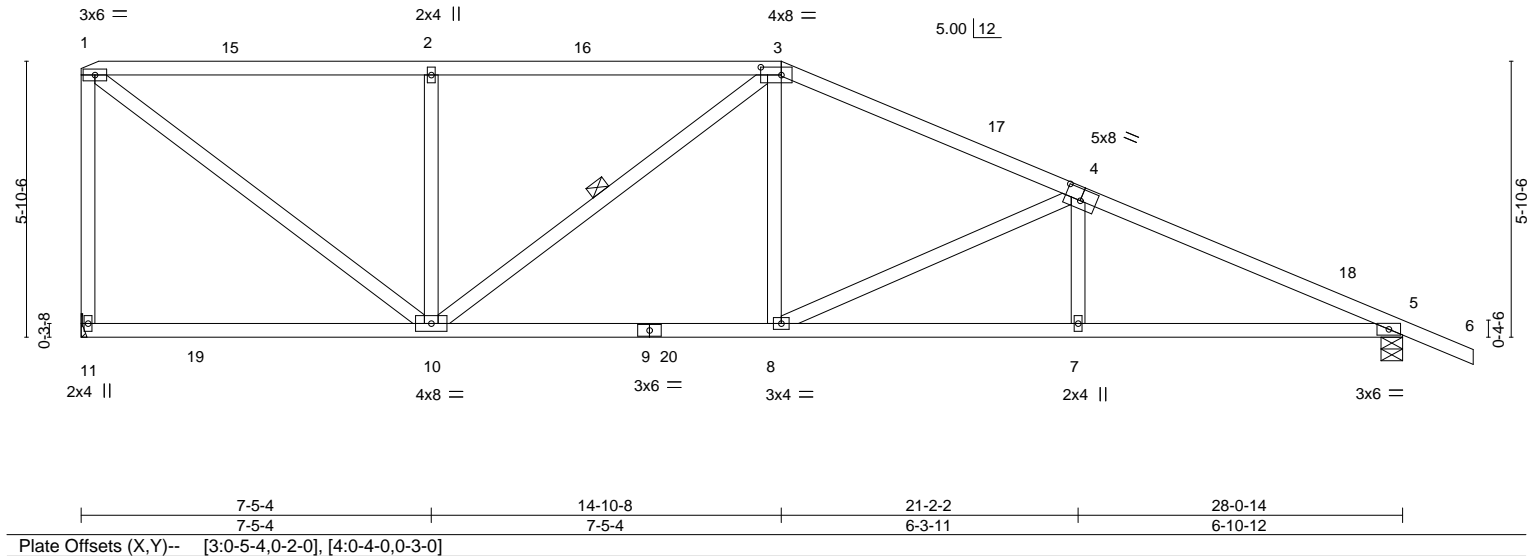
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:12 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-HBVQioy38oliLDMiXl0h8mJRuOHmsR??1YjRITzHukz

0-4-8	7-5-4	14-10-8	21-2-2	28-0-14	29-6-14
0-4-8	7-0-12	7-5-4	6-3-11	6-10-12	1-6-0

Scale = 1:48.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.76	in (loc) l/def L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.72	Vert(LL) -0.13 8-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.68	Vert(CT) -0.23 8-10 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 5 n/a n/a		
	Code FBC2020/TPI2014			Weight: 151 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-5-1 oc bracing.  
WEBS 1 Row at midpt 3-10

#### REACTIONS.

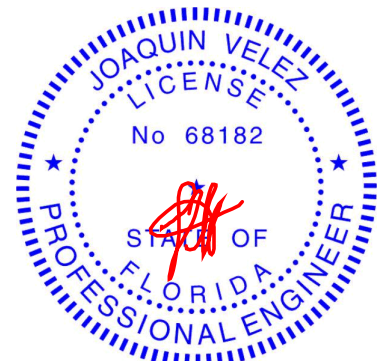
(size) 11=Mechanical, 5=0-5-8  
Max Horz 11=-208(LC 13)  
Max Uplift 11=-262(LC 9), 5=-279(LC 13)  
Max Grav 11=1152(LC 2), 5=1189(LC 2)

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

TOP CHORD 1-2=-1172/268, 2-3=-1172/268, 3-4=-1627/364, 4-5=-2292/498, 1-11=-1013/279  
BOT CHORD 8-10=-162/1460, 7-8=-382/2094, 5-7=-383/2085  
WEBS 1-10=-331/1446, 2-10=-458/223, 3-10=-360/145, 3-8=-57/551, 4-8=-708/242, 4-7=0/269

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-8, Exterior(2R) 14-10-8 to 19-1-6, Interior(1) 19-1-6 to 29-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=262, 5=279.



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

May 13,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job 2779092	Truss T09	Truss Type Hip	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930975
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:13 2021 Page 1  
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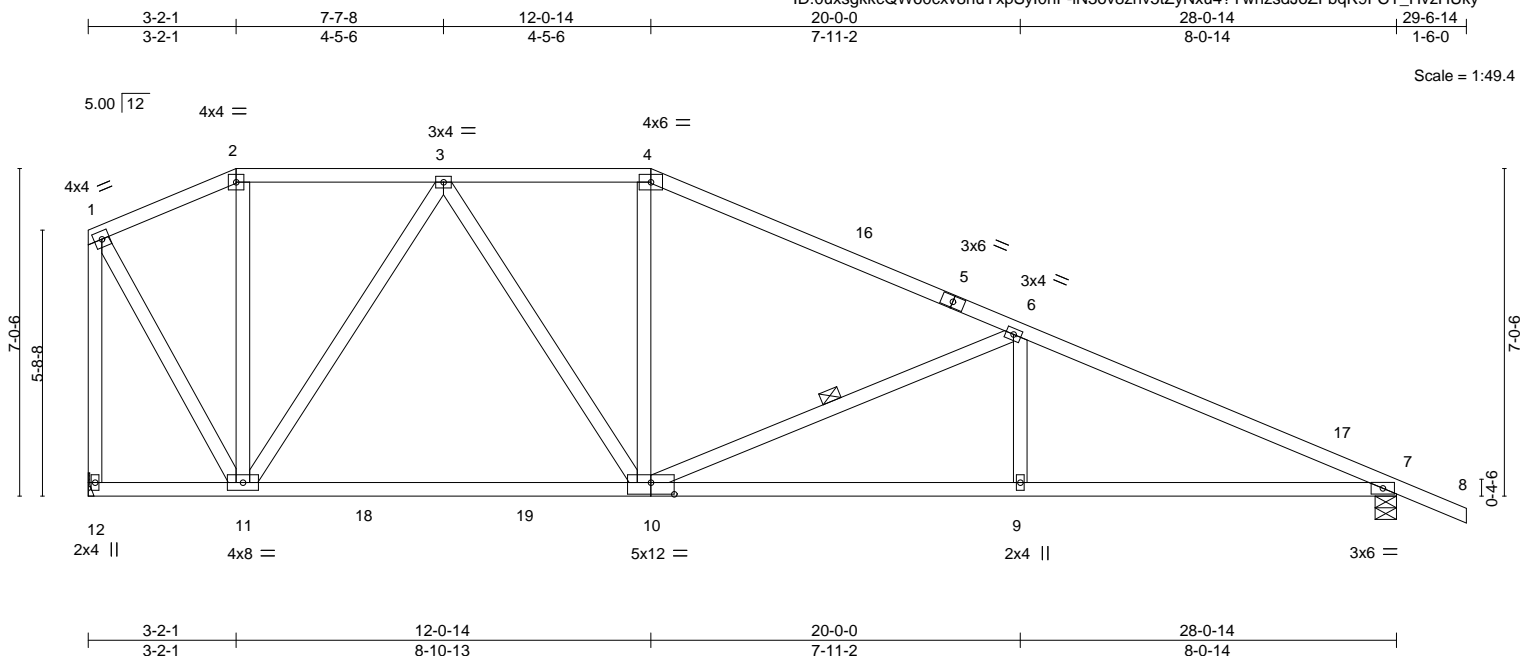


Plate Offsets (X,Y)-- [10:0-6-0,0-3-0]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.22 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.37 10-11	>901	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.06 7	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 164 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 6-10

#### REACTIONS.

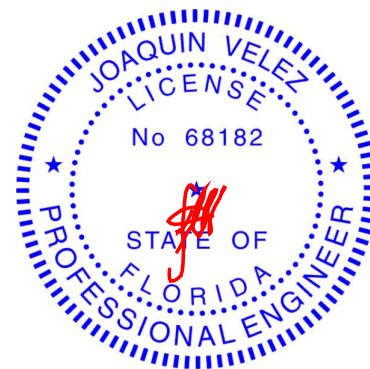
(size) 12=Mechanical, 7=0-5-8  
Max Horz 12=-223(LC 13)  
Max Uplift 12=-215(LC 9), 7=-275(LC 13)  
Max Grav 12=1139(LC 2), 7=1185(LC 2)

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

TOP CHORD 1-2=-579/126, 2-3=-514/133, 3-4=-1198/313, 4-6=-1375/296, 6-7=-2213/475, 1-12=-1155/236  
BOT CHORD 10-11=-51/915, 9-10=-352/2008, 7-9=-352/2008  
WEBS 3-11=-754/231, 3-10=-140/518, 4-10=0/279, 6-10=-883/313, 6-9=0/324, 1-11=-181/1019

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-2-1, Exterior(2R) 3-2-1 to 7-7-8, Interior(1) 7-7-8 to 12-0-14, Exterior(2R) 12-0-14 to 16-3-13, Interior(1) 16-3-13 to 29-6-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=215, 7=275.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T10	Truss Type Hip	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930976
Job Reference (optional)					

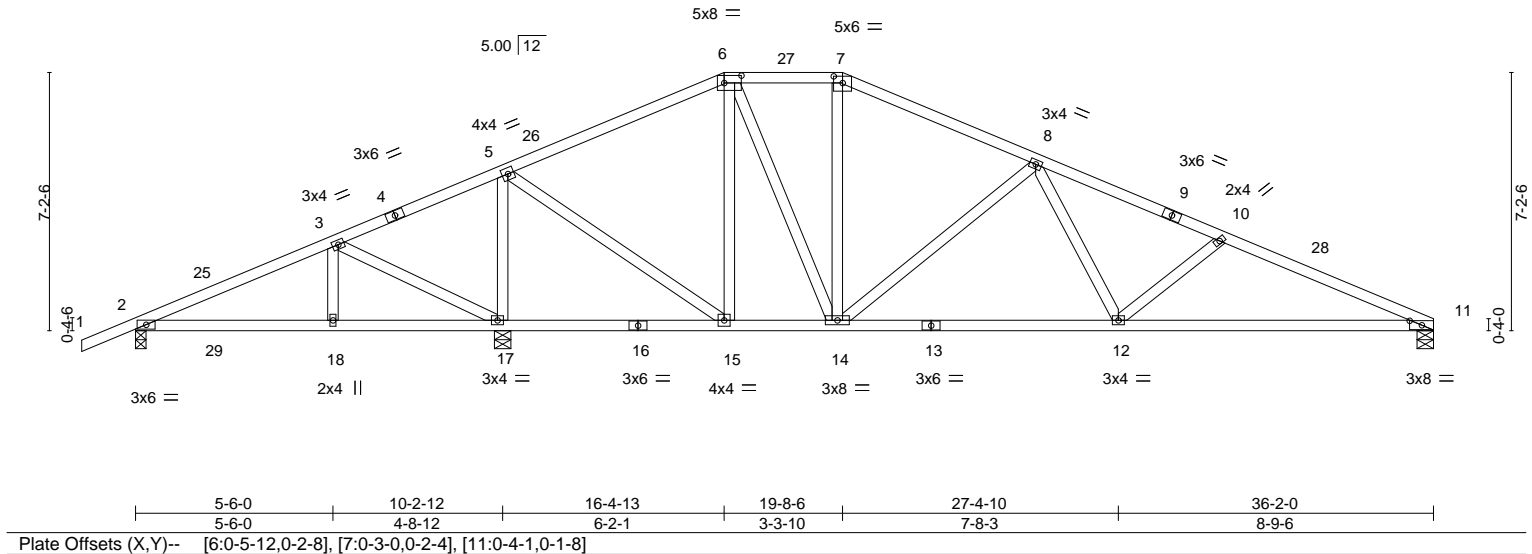
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:14 2021 Page 1

ID:0uxsgkccQW60cxv8huYxpSyl0nF-DZdA6TzJgP?QaXW4ei39DBPrmCyXKLslUsDYpLzHUkx

-1-6-0 1-6-0	5-6-0 5-6-0	10-2-12 4-8-12	16-4-13 6-2-1	19-8-6 3-3-10	25-1-0 5-4-9	30-2-7 5-1-7	36-2-0 5-11-9
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Scale: 3/16"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.12 12-24	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.27 12-24	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 195 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

#### REACTIONS.

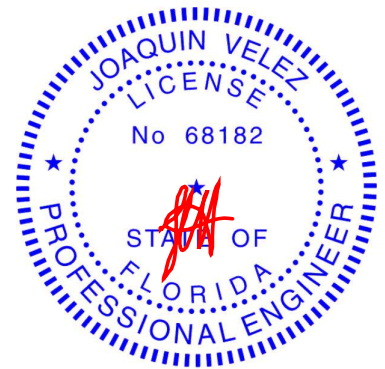
(size) 2=0-3-8, 17=0-5-8, 11=0-5-8  
Max Horz 2=120(LC 16)  
Max Uplift 2=132(LC 8), 17=348(LC 8), 11=219(LC 13)  
Max Grav 2=305(LC 23), 17=1664(LC 1), 11=866(LC 1)

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

TOP CHORD 2-3=-135/276, 3-5=-184/604, 5-6=-519/185, 6-7=-618/245, 7-8=-731/237,  
8-10=-1479/392, 10-11=-1732/458  
BOT CHORD 15-17=-508/258, 14-15=-5/402, 12-14=-199/1112, 11-12=-372/1573  
WEBS 3-18=-261/203, 3-17=-473/471, 5-17=-1337/364, 5-15=-238/1116, 6-15=-545/171,  
6-14=-150/552, 8-14=-647/248, 8-12=-78/493, 10-12=-339/180

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-6, Interior(1) 2-1-6 to 16-4-13, Exterior(2E) 16-4-13 to 19-8-6, Exterior(2R) 19-8-6 to 25-1-0, Interior(1) 25-1-0 to 36-2-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 17=348, 11=219.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T11	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930977
Job Reference (optional)					

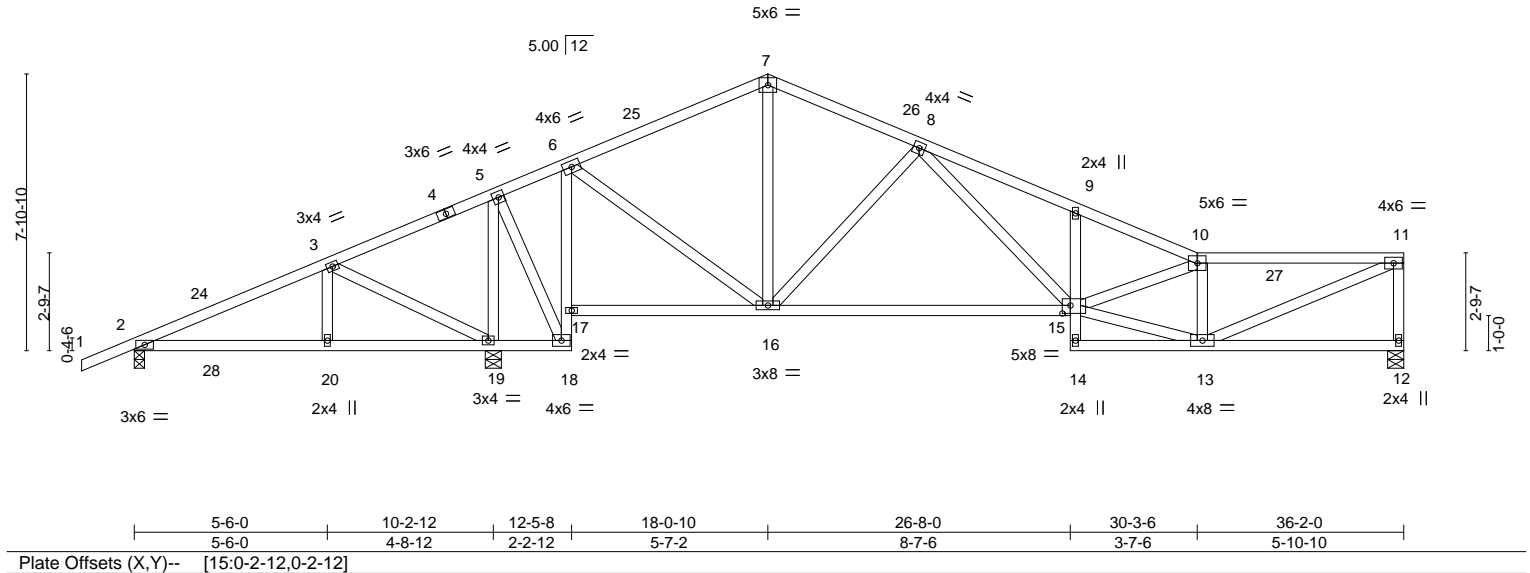
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:15 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-hmBYKp\_yRj7HCg5GCQaOmOx0Gcli3p3SjWy5LozHUKw

-1-6-0 1-6-0	5-6-0 5-6-0	10-2-12 4-8-12	12-5-8 2-2-12	18-0-10 5-7-2	22-4-5 4-3-11	26-8-0 4-3-11	30-3-6 3-7-6	36-2-0 5-10-10
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Scale = 1:65.6



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 0.47	Vert(LL)	-0.18 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.40 15-16	>778	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.02 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 213 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-18,9-14: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-14 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-4-2 oc bracing.

#### REACTIONS.

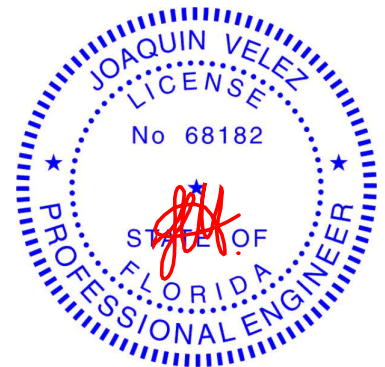
(size) 12=0-5-8, 2=0-3-8, 19=0-5-8  
Max Horz 2=178(LC 12)  
Max Uplift 12=-219(LC 13), 2=-136(LC 8), 19=-348(LC 12)  
Max Grav 12=852(LC 1), 2=292(LC 23), 19=1689(LC 1)

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

TOP CHORD 2-3=-113/295, 3-5=-164/677, 6-7=-648/215, 7-8=-631/207, 8-9=-1821/515,  
9-10=-1783/451, 10-11=-1468/365, 11-12=-792/231  
BOT CHORD 2-20=-276/76, 19-20=-276/76, 18-19=-585/155, 17-18=-1024/245, 6-17=-982/254,  
15-16=-214/987  
WEBS 3-19=-518/481, 5-19=-1337/286, 5-18=-216/1099, 6-16=-130/795, 7-16=-77/273,  
8-16=-676/265, 8-15=-257/960, 13-15=-355/1531, 10-13=-957/292, 11-13=-383/1553

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-6, Interior(1) 2-1-6 to 18-0-10, Exterior(2R) 18-0-10 to 21-8-0, Interior(1) 21-8-0 to 36-0-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=219, 2=136, 19=348.



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

May 13,2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T12	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930978
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:17 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-e8JJIV0CzKN?R\_EfJrcsrp1N0P3CXikkAqRCQgzHUKu

-1-6-0 1-6-0	5-6-0 5-6-0	10-2-12 4-8-12	12-5-8 2-2-12	18-0-10 5-7-2	22-4-6 4-3-13	26-8-3 4-3-13	31-5-0 4-8-13	36-2-0 4-9-0
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Scale = 1:65.6

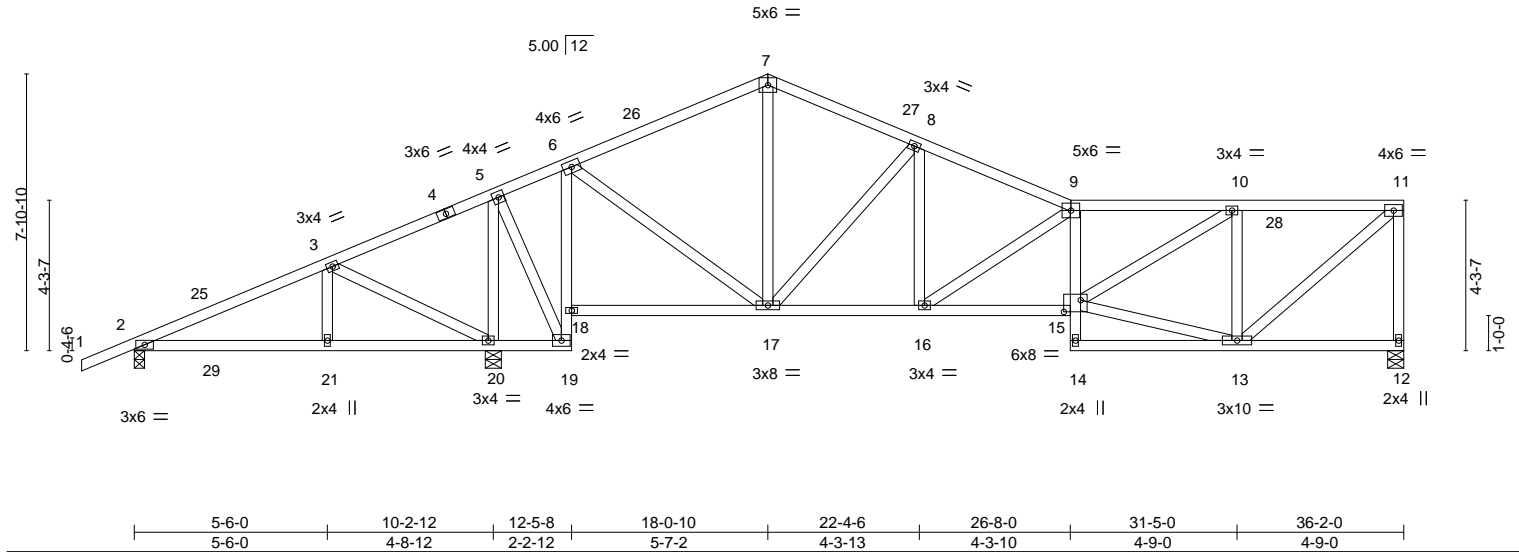


Plate Offsets (X,Y)-- [15:0-5-12,0-4-0]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.39		in (loc) l/defl L/d		MT20		244/190			
TCDL 7.0		Lumber DOL 1.25		BC 0.45		Vert(LL) -0.08 15-16 >999 240							
BCLL 0.0 *		Rep Stress Incr YES		WB 0.58		Horz(CT) 0.04 12 n/a n/a							
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 226 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-19,9-14: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-5-4 oc bracing.

#### REACTIONS.

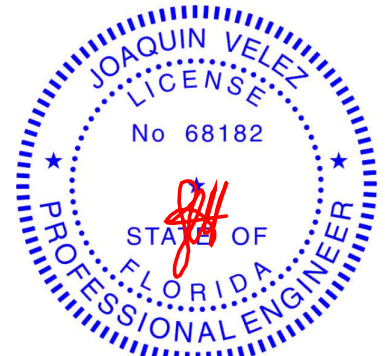
(size) 12=0-5-8, 2=0-3-8, 20=0-5-8  
Max Horz 2=207(LC 12)  
Max Uplift 12=219(LC 13), 2=-127(LC 8), 20=-357(LC 12)  
Max Grav 12=855(LC 1), 2=293(LC 23), 20=1677(LC 1)

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

TOP CHORD 2-3=-118/275, 3-5=-195/656, 6-7=-645/200, 7-8=-628/192, 8-9=-1145/291,  
9-10=-1671/416, 10-11=-828/210, 11-12=-812/229  
BOT CHORD 2-21=-289/80, 20-21=-289/80, 19-20=-566/143, 18-19=-1011/253, 6-18=-952/267,  
16-17=-236/1025, 15-16=-421/1693  
WEBS 3-20=-518/482, 5-20=-1332/296, 5-19=-228/1092, 6-17=-145/764, 7-17=-66/253,  
8-17=-737/240, 8-16=-84/475, 13-15=-199/780, 10-15=-241/989, 10-13=-803/264,  
11-13=-274/1079, 9-16=-802/222

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-6, Interior(1) 2-1-6 to 18-0-10, Exterior(2R) 18-0-10 to 21-8-0, Interior(1) 21-8-0 to 36-0-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=219, 2=127, 20=357.



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

May 13,2021

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

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



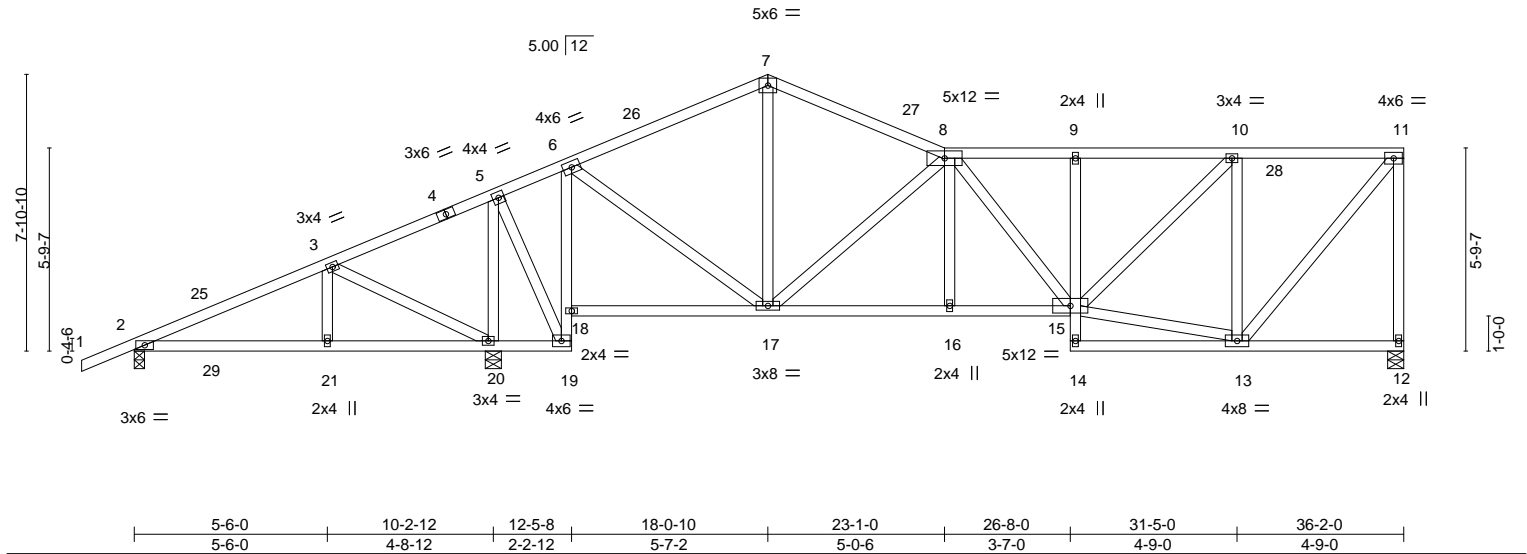
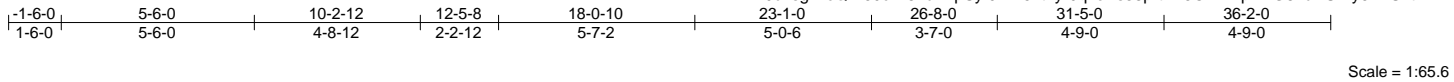
6904 Parke East Blvd.  
Tampa, FL 36610



Job 2779092	Truss T13	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930979
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:18 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-6Lthyr0qkeVs38prtY75O1ZYlpAG8huPUBly6zHUkt



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 0.42	Vert(LL)	-0.06	16	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.10	15-16	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.03	12	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
									Weight: 236 lb FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-19,9-14: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-7-15 oc bracing.

#### REACTIONS.

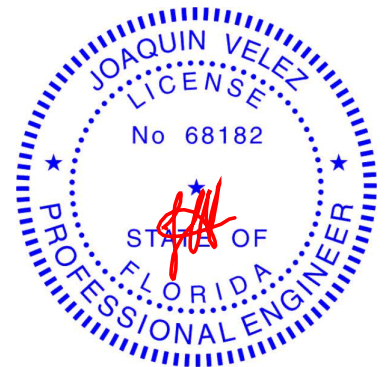
(size) 12=0-5-8, 2=0-3-8, 20=0-5-8  
Max Horz 2=237(LC 12)  
Max Uplift 12=-224(LC 13), 2=-118(LC 8), 20=-364(LC 9)  
Max Grav 12=867(LC 1), 2=309(LC 23), 20=1634(LC 1)

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

TOP CHORD 3-5=-221/577, 6-7=-684/183, 7-8=-671/168, 8-9=-1092/276, 9-10=-1086/275,  
10-11=-600/153, 11-12=-827/234  
BOT CHORD 2-21=-305/116, 20-21=-305/116, 19-20=-492/126, 18-19=-966/256, 6-18=-912/270,  
16-17=-278/1134, 15-16=-277/1137  
WEBS 3-20=-516/482, 5-20=-1303/305, 5-19=-235/1057, 6-17=-153/731, 7-17=-29/266,  
8-17=-755/222, 13-15=-151/567, 10-15=-165/662, 10-13=-740/250, 11-13=-237/933

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-6, Interior(1) 2-1-6 to 18-0-10, Exterior(2R) 18-0-10 to 21-8-0, Interior(1) 21-8-0 to 36-0-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=224, 2=118, 20=364.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 36610



Job 2779092	Truss T14	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930980
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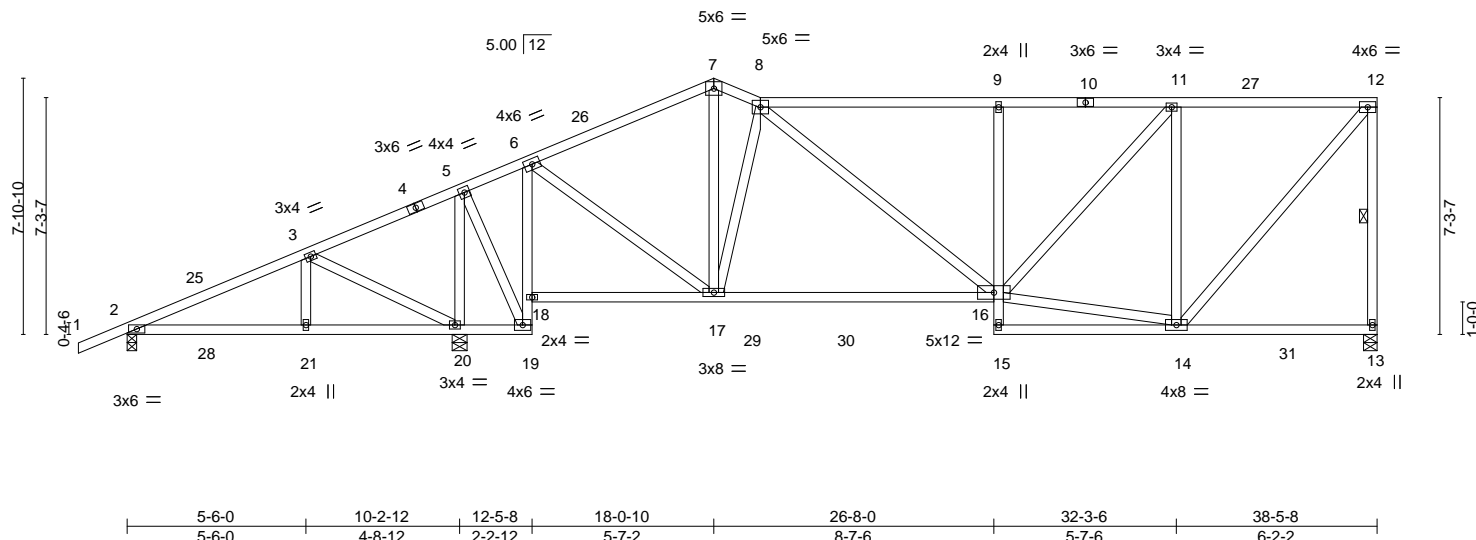
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:20 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-2j\_RNX24GFIZISzE?zAZTSfs9d\_Mk1QBsogs1?zHUkr

1-6-0 1-6-0	5-6-0 5-6-0	10-2-12 4-8-12	12-5-8 2-2-12	18-0-10 5-7-2	19-5-13 1-5-3	26-8-0 7-2-3	32-3-6 5-7-6	38-5-8 6-2-2
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Scale = 1:70.9



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 0.52	Vert(LL)	-0.23 16-17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.42 16-17	>804	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 254 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-19,9-15: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-3 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-3-2 oc bracing.  
WEBS 1 Row at midpt 12-13

#### REACTIONS.

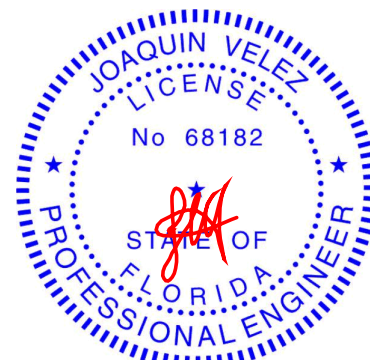
(size) 13=0-5-0, 2=0-3-8, 20=0-5-8  
Max Horz 2=266(LC 12)  
Max Uplift 13=-252(LC 13), 2=-104(LC 8), 20=-428(LC 9)  
Max Grav 13=1075(LC 2), 2=311(LC 23), 20=1869(LC 2)

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

TOP CHORD 3-5=-272/625, 6-7=-876/168, 7-8=-839/182, 8-9=-1177/279, 9-11=-1158/273,  
11-12=-722/170, 12-13=-956/266  
BOT CHORD 2-21=-308/121, 20-21=-308/121, 19-20=-545/132, 18-19=-1116/283, 6-18=-1057/293,  
16-17=-209/929, 9-16=-370/178  
WEBS 3-20=-555/483, 5-20=-1463/336, 5-19=-268/1229, 6-17=-172/935, 7-17=-101/546,  
8-17=-751/258, 8-16=-95/350, 14-16=-144/767, 11-16=-148/632, 11-14=-749/266,  
12-14=-258/1098

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-2, Interior(1) 2-4-2 to 18-0-10, Exterior(2E) 18-0-10 to 19-5-13, Interior(1) 19-5-13 to 38-3-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=252, 2=104, 20=428.



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

May 13,2021

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

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



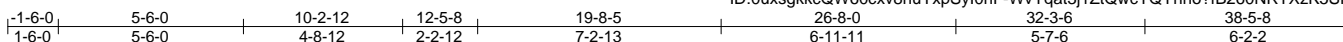
6904 Parke East Blvd.  
Tampa, FL 36610

Job 2779092	Truss T15	Truss Type Half Hip	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930981
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:21 2021 Page 1

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Scale = 1:68.5

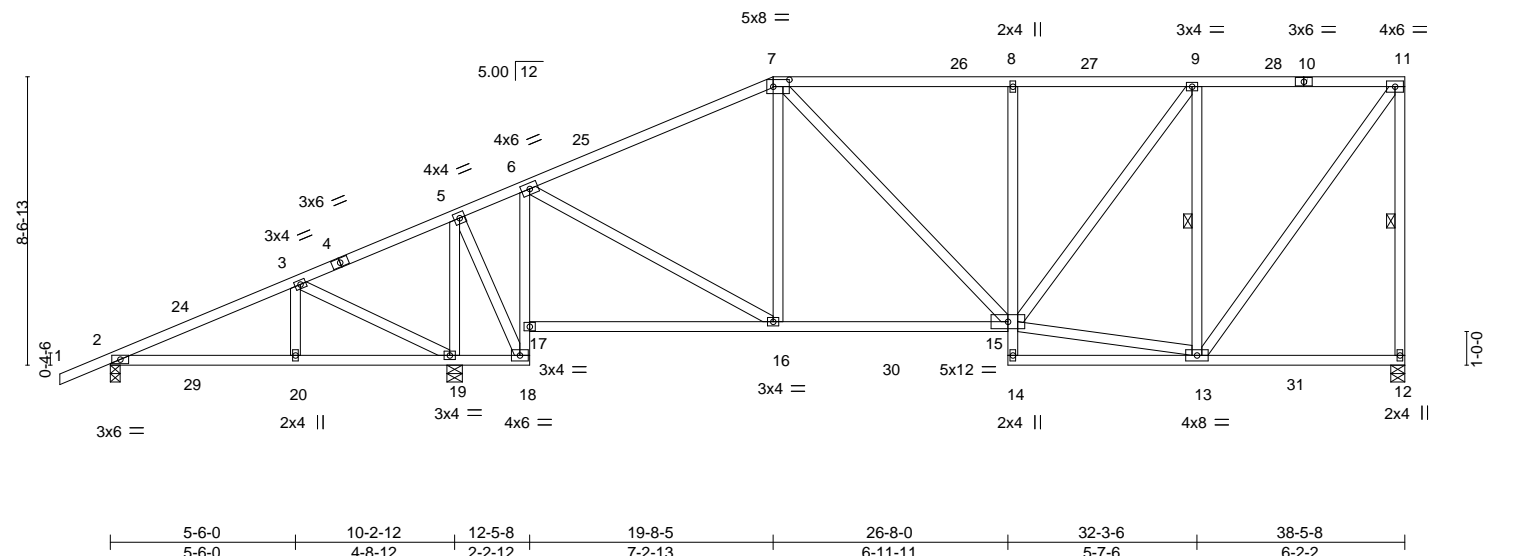


Plate Offsets (X,Y)-- [7:0-5-12,0-2-8]		LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
		TCLL 20.0		Plate Grip DOL 1.25		TC 0.51		in (loc) l/defl L/d		MT20		244/190	
		TCDL 7.0		Lumber DOL 1.25		BC 0.62		Vert(LL) -0.11 15-16 >999 240					
		BCLL 0.0 *		Rep Stress Incr YES		WB 0.56		Vert(CT) -0.19 15-16 >999 180					
		BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS		Horz(CT) 0.04 12 n/a n/a					
										Weight: 258 lb		FT = 20%	

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
6-18,8-14: 2x4 SP No.3  
WEBS 2x4 SP No.3

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-3-4 oc bracing.  
WEBS 1 Row at midpt 11-12, 9-13

#### REACTIONS.

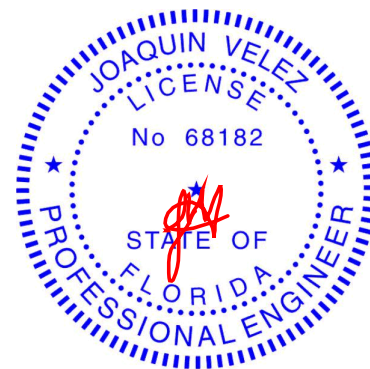
(size) 12=0-5-0, 2=0-3-8, 19=0-5-8  
Max Horz 2=301(LC 12)  
Max Uplift 12=-258(LC 8), 2=-78(LC 8), 19=-494(LC 12)  
Max Grav 12=1087(LC 2), 2=254(LC 1), 19=1867(LC 2)

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

TOP CHORD 3-5=-288/618, 6-7=-962/181, 7-8=-968/239, 8-9=-957/235, 9-11=-618/148, 11-12=-965/271  
BOT CHORD 2-20=-323/0, 19-20=-323/0, 18-19=-539/111, 17-18=-1138/311, 6-17=-1026/331, 15-16=-204/824, 8-15=-354/173  
WEBS 3-19=-559/486, 5-19=-1473/437, 5-18=-346/1268, 6-16=-172/889, 13-15=-133/619, 9-15=-171/552, 9-13=-733/270, 11-13=-250/1043

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-2, Interior(1) 2-4-2 to 19-8-5, Exterior(2R) 19-8-5 to 25-1-9, Interior(1) 25-1-9 to 38-3-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=258, 19=494.



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

May 13,2021

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

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



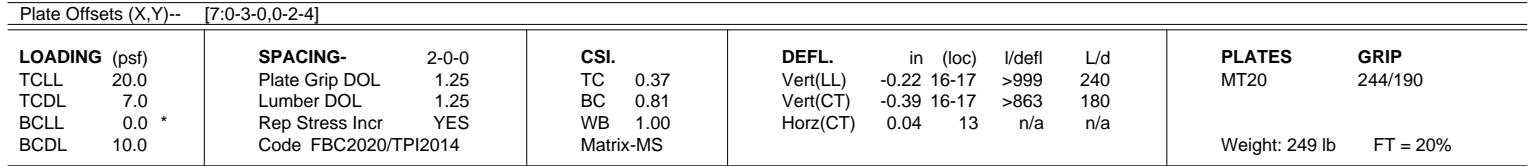
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Tampa, FL 36610

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:23 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-Slga?Y4zZA789vpg5jH44HQrq0\_xKidZmuWeKzHUko

Segment	Start Date	End Date
1	1-6-0	5-6-0
2	10-2-12	12-5-8
3	16-1-2	21-5-13
4	26-8-0	32-3-6
5	38-5-8	6-2-2

Scale = 1:68.5



**REACTIONS.** (size) 13=0-5-0, 2=0-3-8, 20=0-5-8  
 Max Horz 2=250(LC 12)  
 Max Uplift 13=-258(LC 8), 2=-80(LC 8), 20=-483(LC 8)  
 Max Grav 13=1074(LC 2), 2=242(LC 1), 20=1867(LC 2)

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

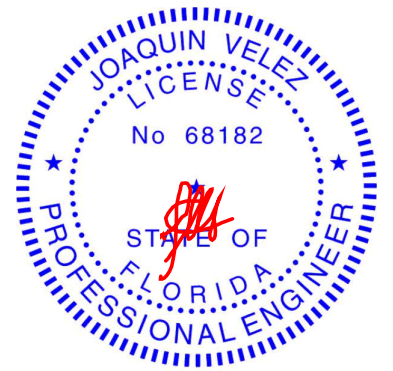
TOP CHORD 3-5=254/628, 7-8=860/187, 8-9=1202/290, 9-11=1191/290, 11-12=747/182,  
12-13=955/272

BOT CHORD 2-21=305/0, 20-21=305/0, 19-20=547/125, 18-19=1094/257, 17-18=147/584,  
16-17=278/1075, 9-16=270/130

WEBS 3-20=554/481, 5-20=1461/416, 5-19=280/1205, 7-18=1094/261, 7-17=124/770,  
8-17=480/190, 14-16=166/801, 11-16=150/629, 11-14=759/277, 12-14=272/1116

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-2, Interior(1) 2-4-2 to 16-1-2, Exterior(2R) 16-1-2 to 21-5-13, Interior(1) 21-5-13 to 38-3-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=258, 20=483.



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

May 13, 2021



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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930983
2779092	T17	Roof Special	1	1		
Job Reference (optional)						

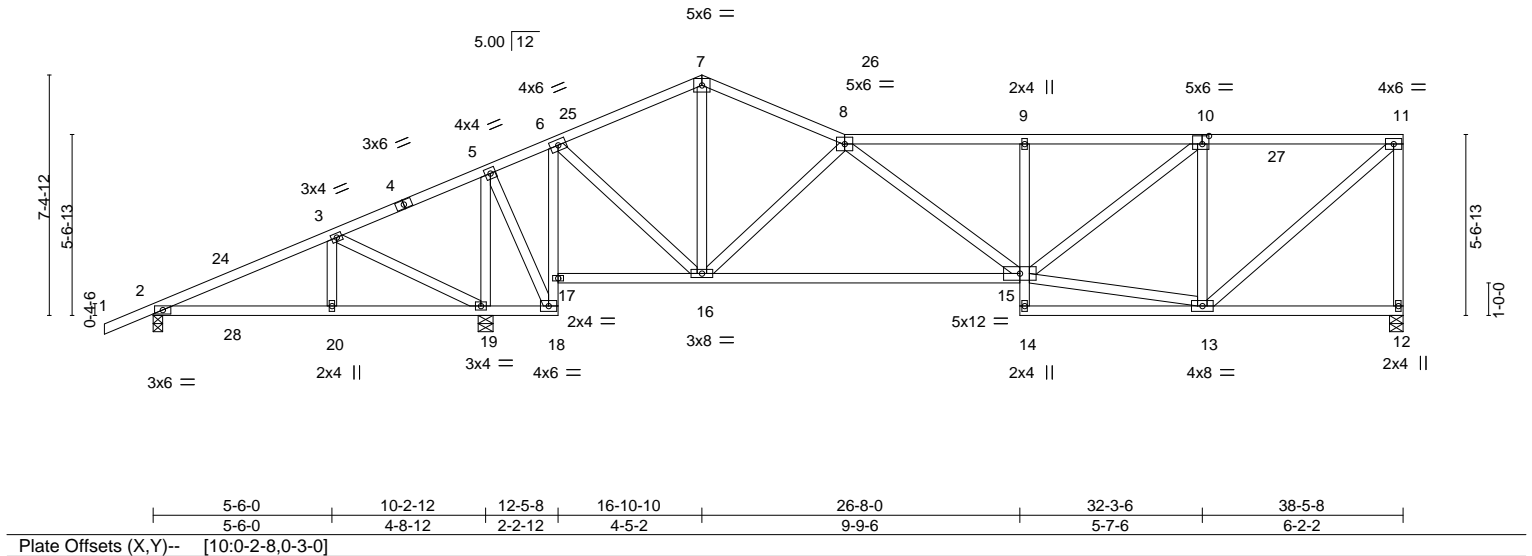
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:24 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-xUEyDu5bKUF?n3H?EpEWdIpYvEKegswmnQe4AmzHUkn

1-6-0	5-6-0	10-2-12	12-5-8	16-10-10	21-3-5	26-8-0	32-3-6	38-5-8
1-6-0	5-6-0	4-8-12	2-2-12	4-5-2	4-4-11	5-4-11	5-7-6	6-2-2

Scale = 1:70.9



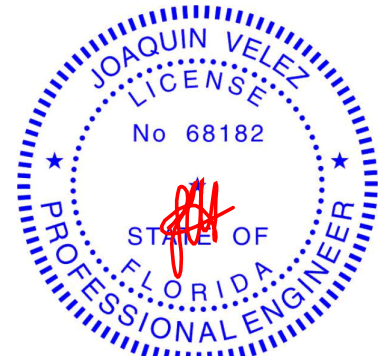
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.27 15-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.57 15-16	>593	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.03 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 237 lb	FT = 20%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-6-9 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* 6-18,9-14: 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 5-3-8 oc bracing.
WEBS 2x4 SP No.3	

<b>REACTIONS.</b>	(size) 12=0-5-0, 2=0-3-8, 19=0-5-8
	Max Horz 2=225(LC 12)
	Max Uplift 12=-248(LC 13), 2=-114(LC 8), 19=-417(LC 9)
	Max Grav 12=946(LC 1), 2=305(LC 23), 19=1759(LC 1)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-145/301, 3-5=-246/664, 6-7=-670/169, 7-8=-667/156, 8-9=-1454/367, 9-10=-1431/364, 10-11=-857/221, 11-12=-893/262
BOT CHORD	2-20=-277/105, 19-20=-277/105, 18-19=-572/154, 17-18=-1055/273, 6-17=-1039/273, 15-16=-326/1244, 9-15=-302/146
WEBS	3-19=-514/481, 5-19=-1413/331, 5-18=-252/1138, 6-16=-176/882, 7-16=-37/312, 8-16=-936/307, 8-15=-72/288, 13-15=-196/870, 10-15=-173/707, 10-13=-778/271, 11-13=-291/1128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-2, Interior(1) 2-4-2 to 16-10-10, Exterior(2R) 16-10-10 to 20-8-12, Interior(1) 20-8-12 to 38-3-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=248, 2=114, 19=417.



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

May 13, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T18	Truss Type Roof Special	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930984
Job Reference (optional)					

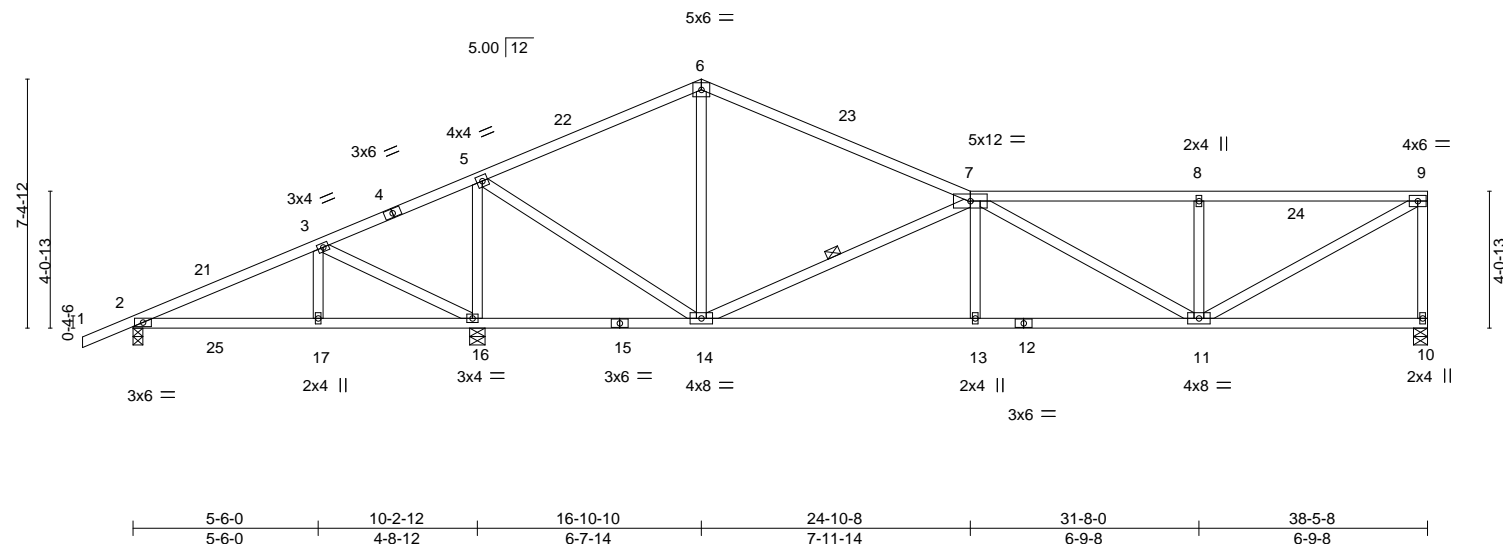
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:25 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-PhoKQE6D5nOsODsBnWIIAVMd0ekfOKXw04NdiCzHUKm

-1-6-0 1-6-0	5-6-0 5-6-0	10-2-12 4-8-12	16-10-10 6-7-14	24-10-8 7-11-14	31-8-0 6-9-8	38-5-8 6-9-8
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Scale = 1:68.5



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 0.84	Vert(LL)	-0.12 13-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.26 13-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.03 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 208 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
WEBS 1 Row at midpt 7-14

#### REACTIONS.

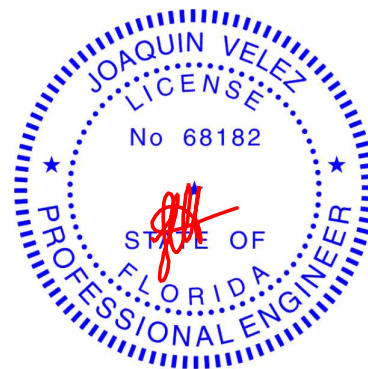
(size) 10=0-5-0, 2=0-3-8, 16=0-5-8  
Max Horz 2=196(LC 12)  
Max Uplift 10=-238(LC 13), 2=-115(LC 8), 16=-412(LC 9)  
Max Grav 10=918(LC 1), 2=265(LC 23), 16=1865(LC 1)

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

TOP CHORD 2-3=-151/500, 3-5=-278/847, 5-6=-520/158, 6-7=-533/131, 7-8=-1264/324, 8-9=-1264/324, 9-10=-856/254  
BOT CHORD 2-17=-443/132, 16-17=-443/132, 14-16=-733/238, 13-14=-385/1557, 11-13=-383/1563  
WEBS 3-17=-261/212, 3-16=-484/475, 5-16=-1544/415, 5-14=-301/1370, 7-14=-1262/369, 7-13=0/296, 7-11=-342/67, 8-11=-400/196, 9-11=-364/1419

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-2, Interior(1) 2-4-2 to 16-10-10, Exterior(2R) 16-10-10 to 20-8-12, Interior(1) 20-8-12 to 38-3-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=238, 2=115, 16=412.



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

May 13, 2021

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6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930985
2779092	T19	Roof Special Girder	1	1	Job Reference (optional)	

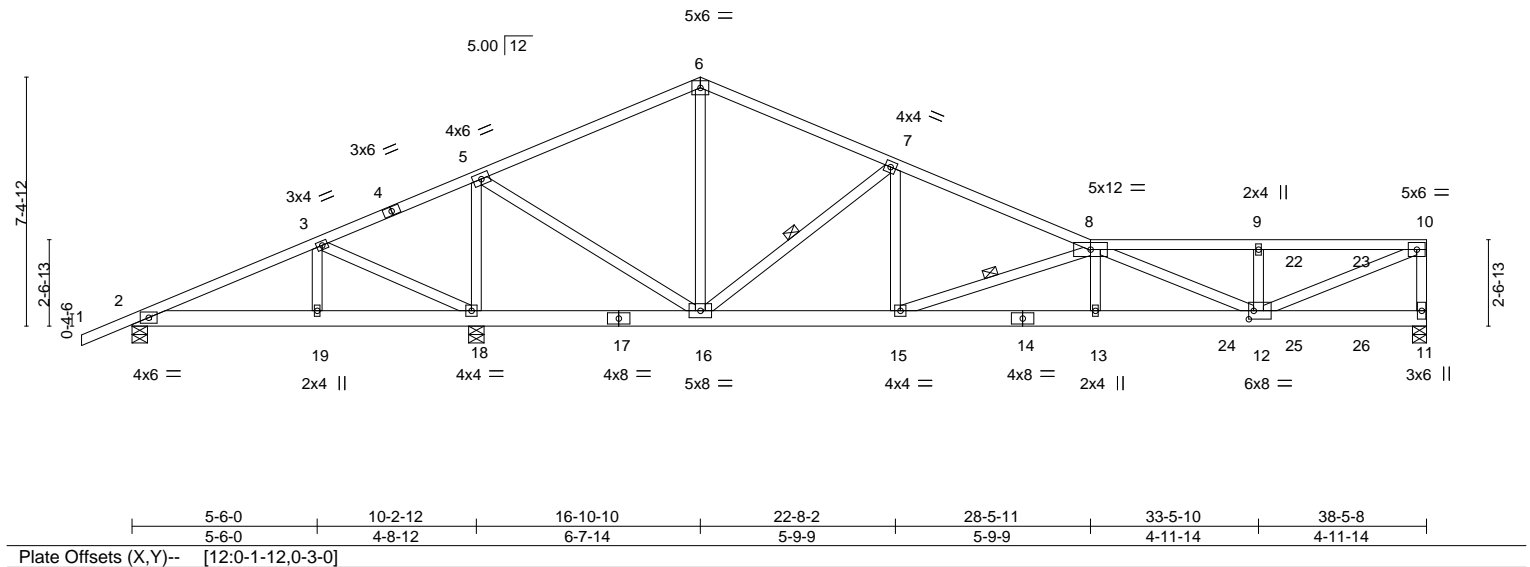
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:27 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-L3v5rw7TcPeaeX?avxoDFwR\_TRLBsCADUNskn5zHUkk

-1-6-0	5-6-0	10-2-12	16-10-10	22-8-2	28-5-11	33-5-10	38-5-8
1-6-0	5-6-0	4-8-12	6-7-14	5-9-9	5-9-9	4-11-14	4-11-14

Scale = 1:68.5



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.77	Vert(LL)	-0.17 12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.31 12-13	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 238 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x6 SP No.2  
 WEBS 2x4 SP No.3 \*Except\*  
 8-12,10-12: 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS 1 Row at midpt 7-16, 8-15

#### REACTIONS.

(size) 11=0-5-0, 2=0-5-8, 18=0-5-8  
 Max Horz 2=166(LC 8)  
 Max Uplift 11=-417(LC 9), 2=-331(LC 20), 18=-517(LC 5)  
 Max Grav 11=1303(LC 1), 2=104(LC 9), 18=2310(LC 1)

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

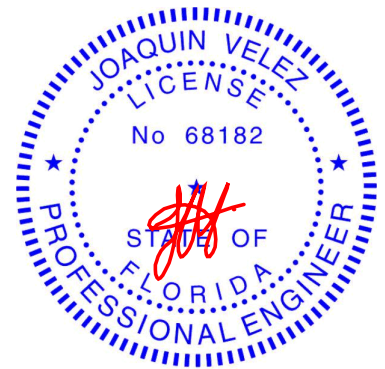
TOP CHORD 2-3=-328/1135, 3-5=-348/1480, 5-6=-331/158, 6-7=-322/146, 7-8=-1357/354,  
 8-9=-2474/729, 9-10=-2474/729, 10-11=-1258/428  
 BOT CHORD 2-19=-1034/350, 18-19=-1034/350, 16-18=-1313/398, 15-16=-282/1207, 13-15=-828/3048,  
 12-13=-828/3061  
 WEBS 3-18=-455/202, 5-18=-1977/470, 5-16=-427/1836, 7-16=-1243/407, 7-15=-171/819,  
 8-15=-1968/584, 8-13=-3/274, 8-12=-654/329, 9-12=-298/174, 10-12=-778/2665

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=417, 2=331, 18=517.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 53 lb up at 34-5-4, and 69 lb down and 46 lb up at 36-5-4, and 54 lb down and 48 lb up at 38-3-12 on top chord, and 513 lb down and 172 lb up at 32-5-4, and 27 lb down and 15 lb up at 34-5-4, and 27 lb down at 36-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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



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

May 13,2021

Continued on page 2

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6904 Parke East Blvd.  
 Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930985
2779092	T19	Roof Special Girder	1	1	Job Reference (optional)	

**LOAD CASE(S)** Standard

Uniform Loads (plf)

Vert: 1-6=-54, 6-8=-54, 8-10=-54, 2-11=-20

Concentrated Loads (lb)

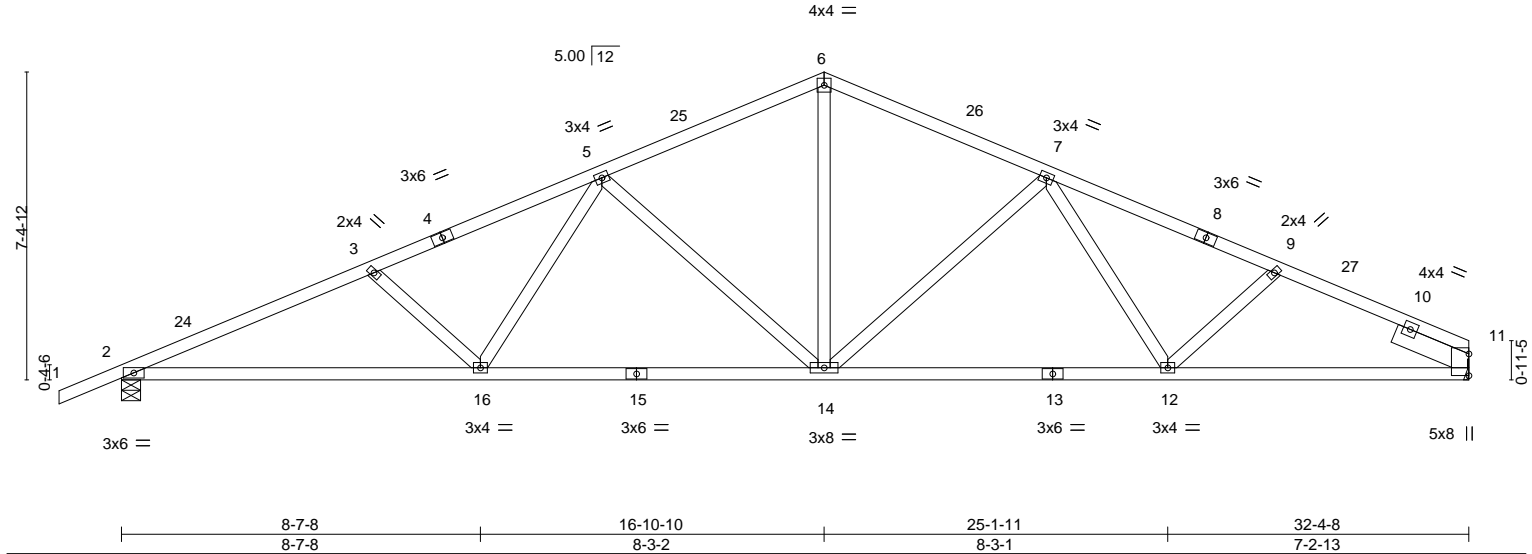
Vert: 10=-33(B) 22=-12(B) 23=-4(B) 24=-513(B) 25=-18(B) 26=-6(B)

Job 2779092	Truss T20	Truss Type Common	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930986
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,					

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:28 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-pGTT3G86NimRFgamTfJSn8\_D\_rjubhkMi1cHJXzHUkj

-1-6-0 1-6-0	6-0-12 6-0-12	11-6-8 5-5-12	16-10-10 5-4-1	22-2-11 5-4-1	27-8-6 5-5-12	32-4-8 4-8-2
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Scale = 1:55.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.17 12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.82	Vert(CT)	-0.38 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.12 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 165 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-10-5 oc bracing.

#### REACTIONS.

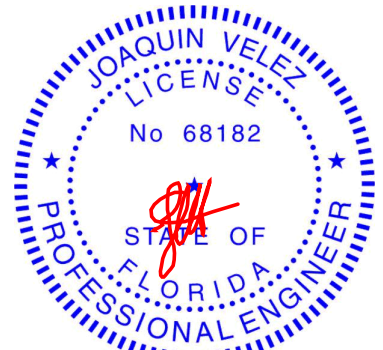
(size) 2=0-5-8, 11=Mechanical  
Max Horz 2=134(LC 12)  
Max Uplift 2=290(LC 12), 11=-247(LC 13)  
Max Grav 2=1281(LC 1), 11=1196(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2541/540, 3-5=-2302/486, 5-6=-1564/377, 6-7=-1568/382, 7-9=-1980/421,  
9-11=-2059/441  
BOT CHORD 2-16=-561/2301, 14-16=-388/1840, 12-14=-297/1732, 11-12=-353/1809  
WEBS 3-16=-319/178, 5-16=-86/486, 5-14=-621/249, 6-14=-171/906, 7-14=-496/221

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-8-14, Interior(1) 1-8-14 to 16-10-10, Exterior(2R) 16-10-10 to 20-1-7, Interior(1) 20-1-7 to 32-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 11=247.



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

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 36610



Job 2779092	Truss T22	Truss Type Hip Girder	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930988
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:30 2021 Page 1  
ID:0uxsgkkcQW60cxv8huYxpSyl0nF-lebDTyAMvK09V\_k9a4LwtZ3dWfYr3jPfAL5ONQzHUkh

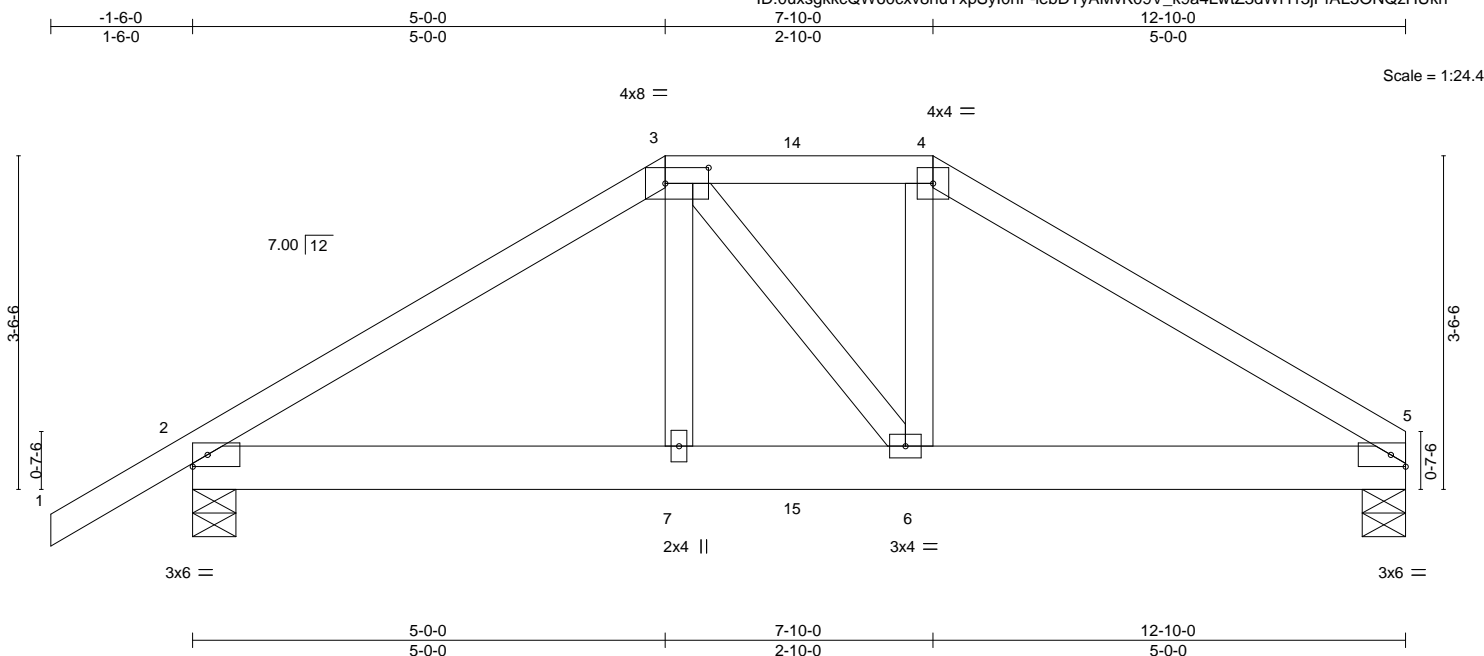


Plate Offsets (X,Y)-- [3:0-5-8,0-2-0]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.27	Vert(LL)	-0.02 6-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.03 6-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.10	Horz(CT)	0.01 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 68 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 5=0-5-8, 2=0-5-8  
Max Horz 2=78(LC 5)  
Max Uplift 5=-252(LC 9), 2=-282(LC 8)  
Max Grav 5=707(LC 1), 2=781(LC 1)

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

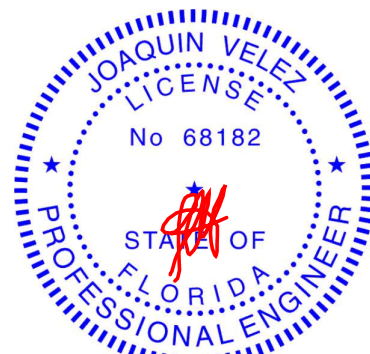
TOP CHORD 2-3=-1010/389, 3-4=-850/381, 4-5=-1050/413  
BOT CHORD 2-7=-312/808, 6-7=-313/816, 5-6=-314/843  
WEBS 3-7=-23/269, 4-6=0/258

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=252, 2=282.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 97 lb down and 82 lb up at 5-0-0, and 97 lb down and 72 lb up at 6-5-0, and 203 lb down and 188 lb up at 7-10-0 on top chord, and 125 lb down and 47 lb up at 5-0-0, and 50 lb down and 19 lb up at 6-5-0, and 125 lb down and 47 lb up at 7-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 8-11=-20  
Concentrated Loads (lb)  
Vert: 3=-58(B) 4=-131(B) 7=-86(B) 6=-86(B) 14=-58(B) 15=-38(B)



Joaquin Velez PE No.68182  
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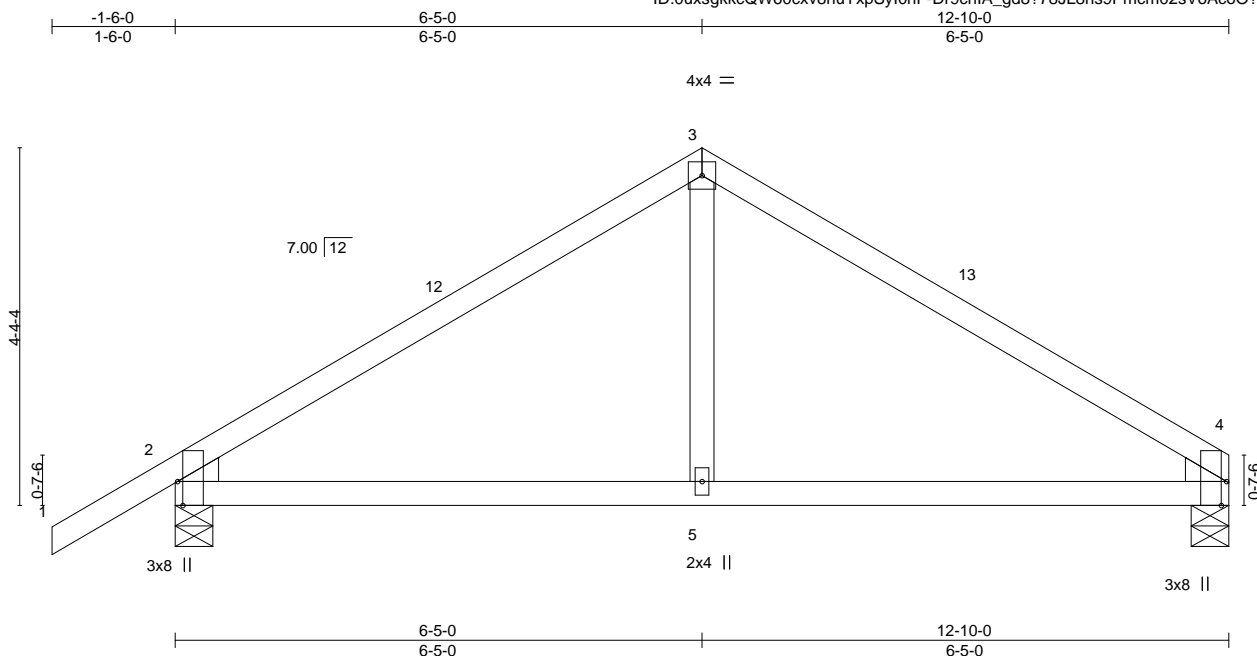


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Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930989
2779092	T23	Common	3	1	Job Reference (optional)	

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Scale = 1:28.1

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	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0		Plate Grip DOL	1.25	TC 0.42		Vert(LL)	-0.05 5-11	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.38		Vert(CT)	-0.09 5-11	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.11		Horz(CT)	0.01 2	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 51 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

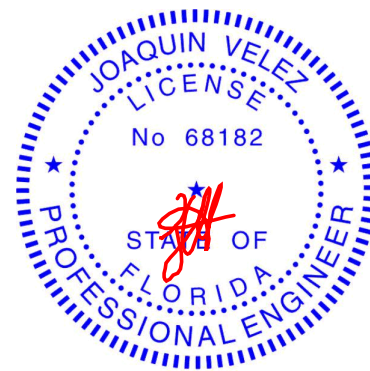
(size) 2=0-5-8, 4=0-5-8  
Max Horz 2=95(LC 9)  
Max Uplift 2=-129(LC 12), 4=-95(LC 13)  
Max Grav 2=561(LC 1), 4=470(LC 1)

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

TOP CHORD 2-3=-574/167, 3-4=-572/168  
BOT CHORD 2-5=-65/426, 4-5=-65/426  
WEBS 3-5=-3/277

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-5-0, Exterior(2R) 6-5-0 to 9-5-0, Interior(1) 9-5-0 to 12-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=129.



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Date:

May 13, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T24	Truss Type Half Hip Girder	Qty 1	Ply 2	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930990
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

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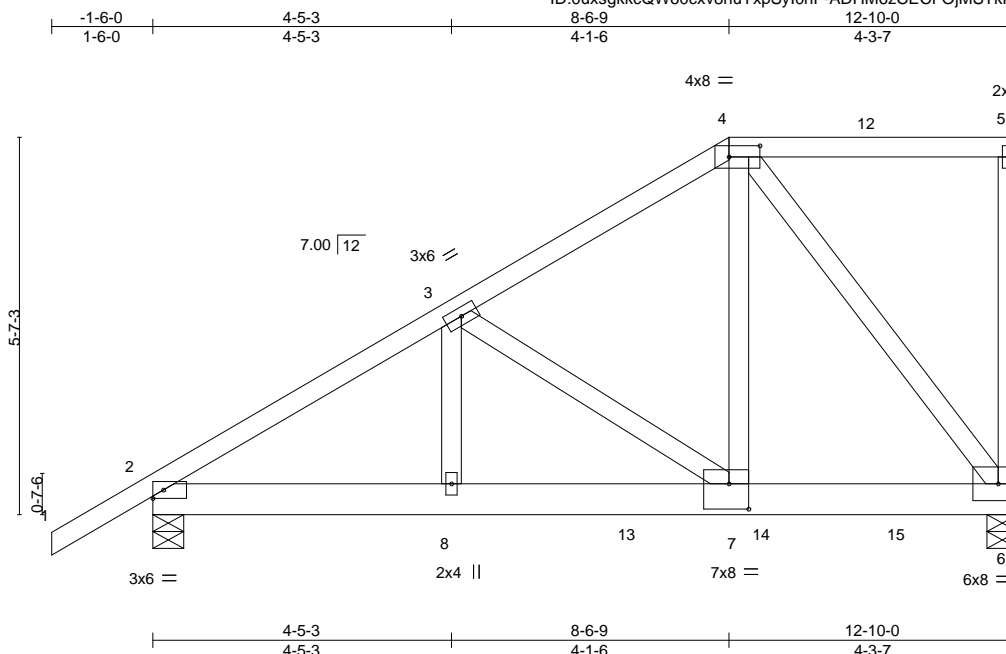


Plate Offsets (X,Y)-- [4:0-5-8,0-2-0], [7:0-3-8,0-4-8]															
<b>LOADING</b> (psf)		<b>SPACING-</b>		2-0-0		<b>CSI.</b>		<b>DEFL.</b>		in (loc) l/defl L/d		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.05	7-8	>999	240			MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.09	7-8	>999	180					
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.01	6	n/a	n/a					
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS									Weight: 176 lb	FT = 20%	

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=0-5-8, 6=0-5-8  
Max Horz 2=198(LC 27)  
Max Uplift 2=-584(LC 8), 6=-966(LC 8)  
Max Grav 2=1955(LC 1), 6=3301(LC 1)

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

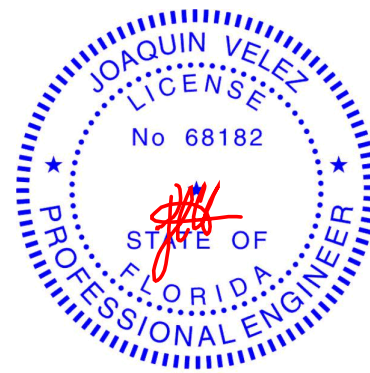
TOP CHORD 2-3=-3280/992, 3-4=-2453/737  
BOT CHORD 2-8=-970/2767, 7-8=-970/2767, 6-7=-699/2182  
WEBS 3-8=-224/682, 3-7=-824/362, 4-7=-1145/3720, 4-6=-3481/1118

#### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=584, 6=966.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2214 lb down and 820 lb up at 7-0-12, and 1132 lb down and 282 lb up at 9-0-12, and 1119 lb down and 235 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

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



Joaquin Velez PE No.68182  
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Date:

May 13, 2021

Continued on page 2.

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6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	IC CONST. - SCHEFFLER RES.	T23930990
2779092	T24	Half Hip Girder	1	2	Job Reference (optional)	

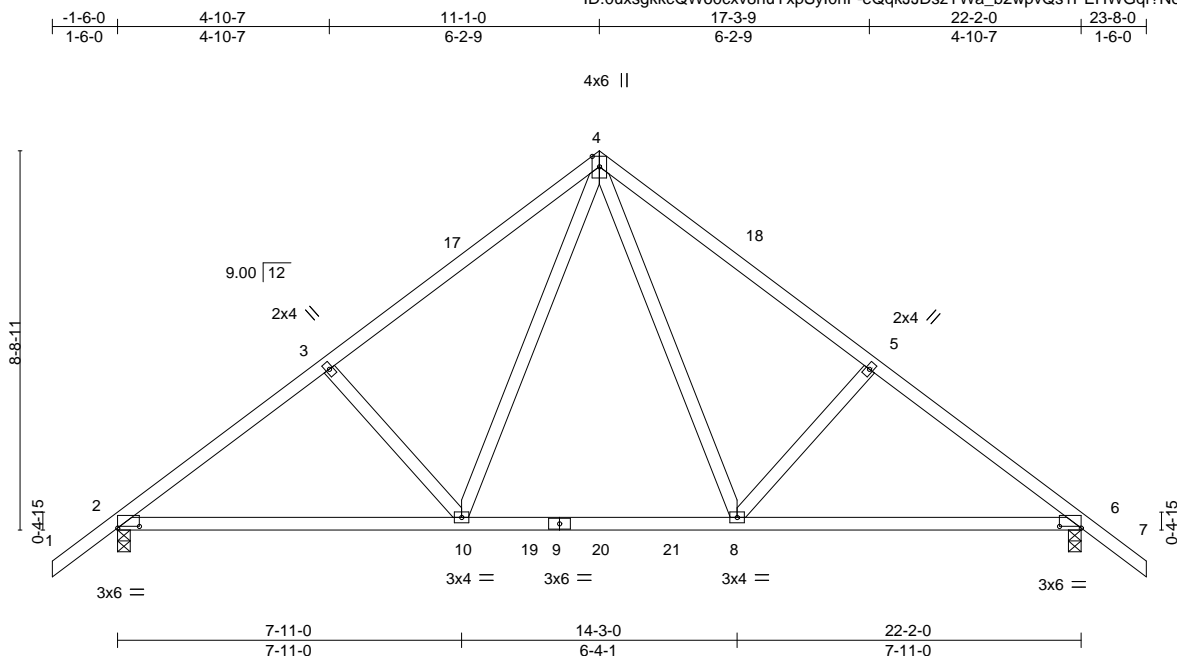
**LOAD CASE(S)** Standard  
Uniform Loads (plf)  
Vert: 1-4=-54, 4-5=-54, 6-9=-20  
Concentrated Loads (lb)  
Vert: 13=-2214(F) 14=-1011(F) 15=-1011(F)

Job 2779092	Truss T25	Truss Type Common	Qty 2	Ply 1	IC CONST. - SCHEFFLER RES. T23930991
Job Reference (optional)					

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Scale = 1:53.0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-8], [6:0-6-0,0-0-8]							
<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 0.40	Vert(LL)	0.14 8-16	>999	240
TCDL 7.0	Lumber DOL	1.25	BC 0.55	Vert(CT)	-0.18 10-13	>999	180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.03 6	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS				
				<b>PLATES</b>	<b>GRIP</b>		
				MT20	244/190		
				Weight: 120 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 5-1-13 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-1-12 oc bracing.

#### REACTIONS.

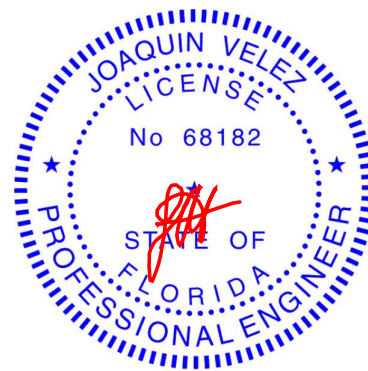
(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=208(LC 10)  
Max Uplift 2=190(LC 12), 6=190(LC 13)  
Max Grav 2=966(LC 2), 6=966(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1180/808, 3-4=-1059/827, 4-5=-1059/827, 5-6=-1180/808  
BOT CHORD 2-10=-573/955, 8-10=-289/633, 6-8=-585/927  
WEBS 4-8=-470/491, 5-8=-302/223, 4-10=-470/491, 3-10=-302/223

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-1-0, Exterior(2R) 11-1-0 to 14-1-0, Interior(1) 14-1-0 to 23-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=190, 6=190.



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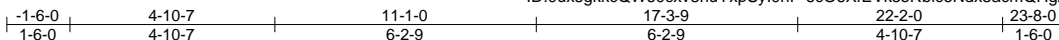
Job 2779092	Truss T25G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930992
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Job Reference (optional)



Scale = 1:54.8

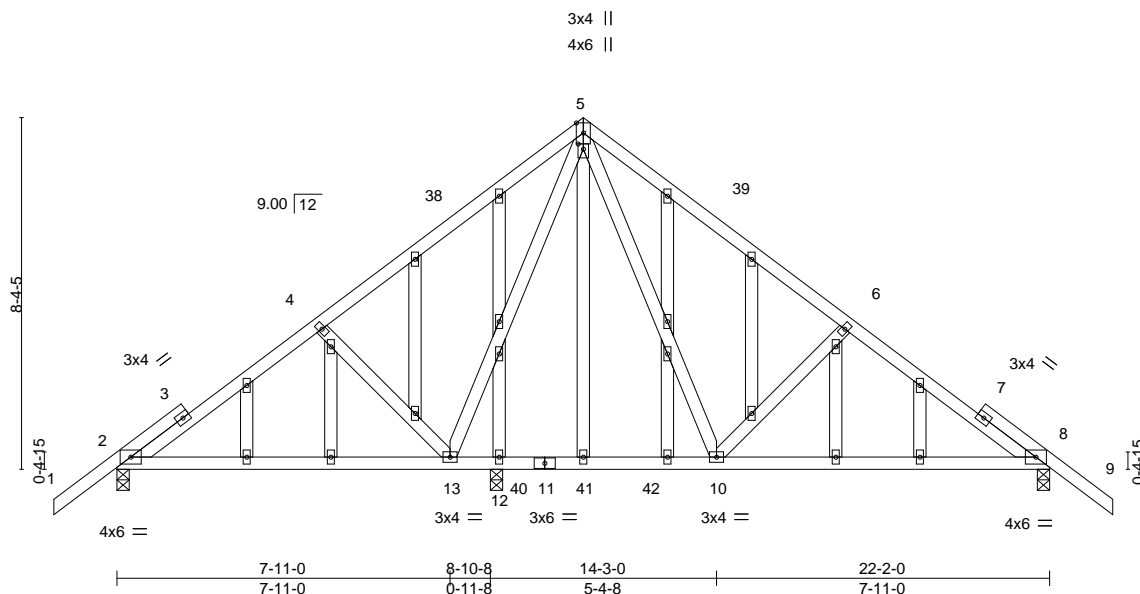


Plate Offsets (X,Y)-- [5:0-1-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	0.16 13-34	>684	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.20 13-34	>530	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.02 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 177 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 4-9-6 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-4-9 oc bracing.

#### REACTIONS.

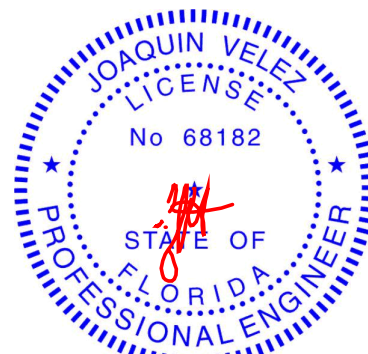
(size) 2=0-3-8, 8=0-3-8, 12=0-3-8  
Max Horz 2=200(LC 11)  
Max Uplift 2=-162(LC 12), 8=-178(LC 13), 12=-52(LC 12)  
Max Grav 2=788(LC 2), 8=842(LC 2), 12=291(LC 2)

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

TOP CHORD 2-4=-898/630, 4-5=-774/635, 5-6=-879/705, 6-8=-1001/701  
BOT CHORD 2-13=-459/780, 12-13=-201/502, 10-12=-201/502, 8-10=-530/823  
WEBS 5-10=-450/467, 6-10=-343/237, 5-13=-297/267, 4-13=-346/240

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-1-0, Exterior(2R) 11-1-0 to 14-1-0, Interior(1) 14-1-0 to 23-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=162, 8=178.



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

May 13, 2021

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

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



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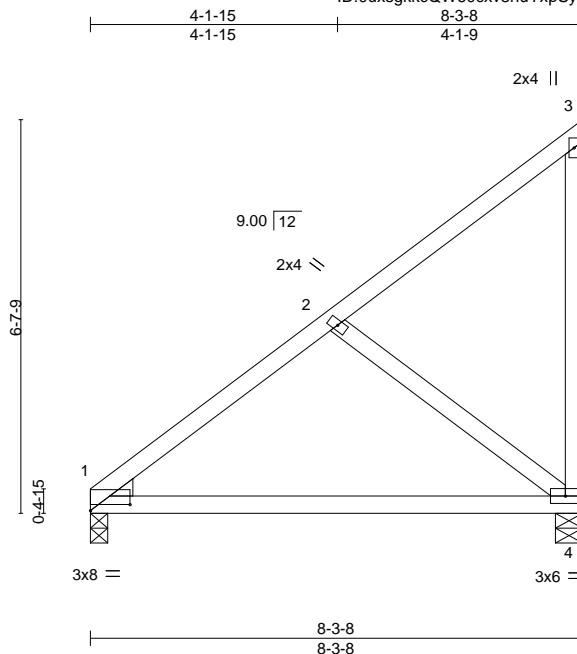
Job 2779092	Truss T26	Truss Type Monopitch	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. Job Reference (optional)	T23930993
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Builders FirstSource (Jacksonville, FL),

Jacksonville, FL - 32244,

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:36 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-aoyUk?E7VAmIDvBjXKSK6qJcJ3VCTQXXYHYib4zHUkb



Scale = 1:38.8

Plate Offsets (X,Y)-- [1:0-8-0,0-1-4]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	0.29 4-7	>340	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.25 4-7	>386	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	-0.01 1	n/a	n/a		
BCDL 10.0	Code FBC2020/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  
WEDGE  
Left: 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 7-10-10 oc bracing.

#### REACTIONS.

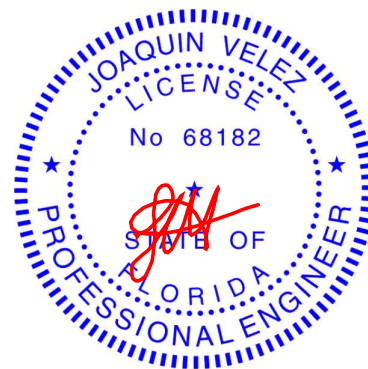
(size) 1=0-3-8, 4=0-5-8  
Max Horz 1=210(LC 12)  
Max Uplift 1=42(LC 9), 4=163(LC 12)  
Max Grav 1=301(LC 1), 4=301(LC 1)

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

TOP CHORD 1-2=-269/47  
BOT CHORD 1-4=-289/204  
WEBS 2-4=-244/336

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-1-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=163.



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Date:

May 13, 2021

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



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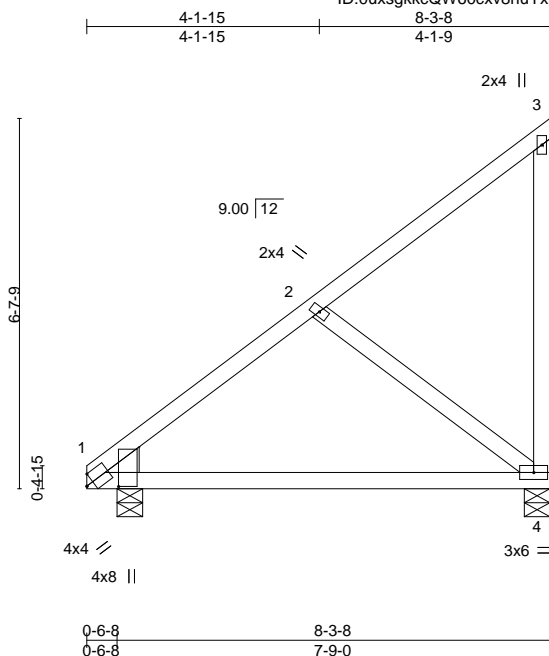
Job 2779092	Truss T27	Truss Type Monopitch	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930994
Job Reference (optional)					

Builders FirstSource (Jacksonville, FL),

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8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:37 2021 Page 1

ID:0uxsgkkcQW60cxv8huYxpSyl0nF-2\_WtxLFIGTu9r3mVU2zZf1spJTtvCt9hnxHG7WzHUka



Scale = 1:41.2

Plate Offsets (X,Y)-- [1:Edge,0-2-2], [1:0-0-1,0-6-13]												
<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	0.37	Vert(LL)	0.20	4-8	>477	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	0.18	4-8	>542	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 46 lb	FT = 20%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.3  
WEDGE  
Left: 2x6 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 9-0-4 oc bracing.

#### REACTIONS.

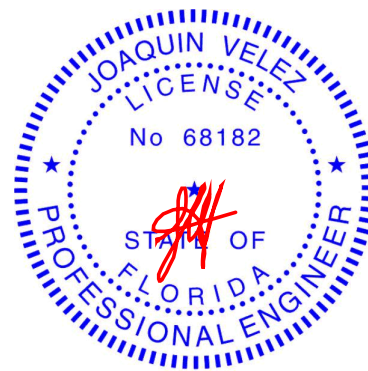
(size) 4=0-5-8, 1=0-5-8  
Max Horz 1=210(LC 12)  
Max Uplift 4=-162(LC 12), 1=-46(LC 9)  
Max Grav 4=270(LC 1), 1=333(LC 1)

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

TOP CHORD 1-2=-252/29  
BOT CHORD 1-4=-257/167  
WEBS 2-4=-204/298

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-1-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=162.



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Date:

May 13, 2021

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



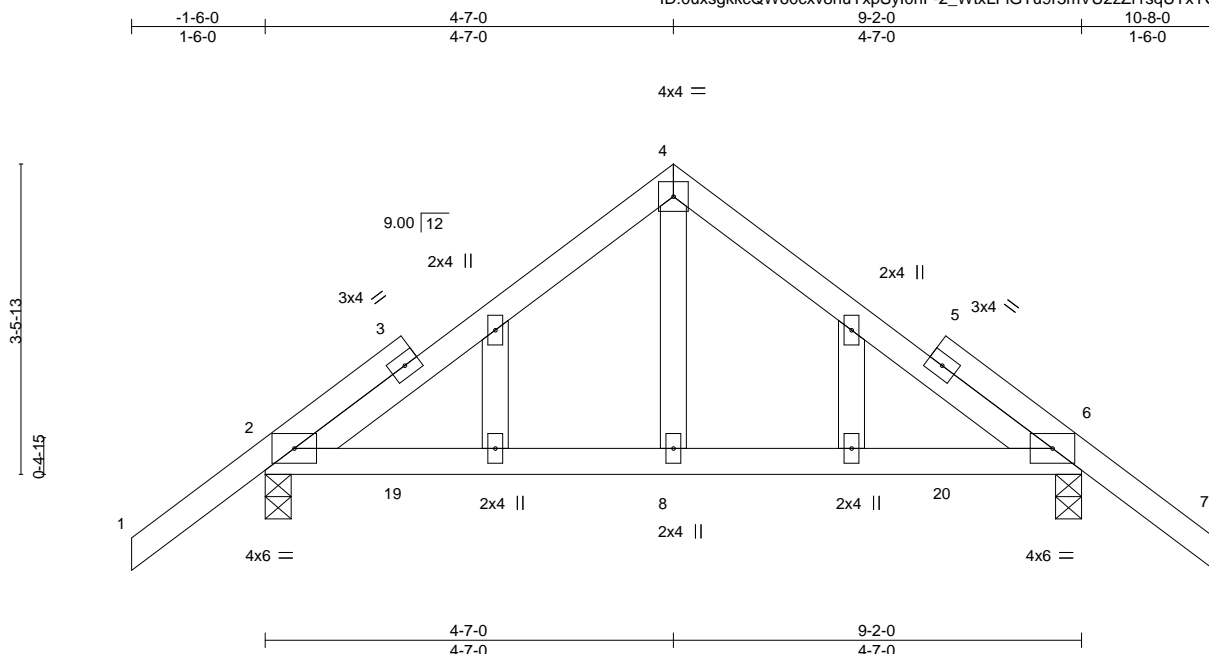
6904 Parke East Blvd.  
Tampa, FL 33610

Job 2779092	Truss T28G	Truss Type GABLE	Qty 1	Ply 1	IC CONST. - SCHEFFLER RES. T23930995
Job Reference (optional)					

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

8.430 s Apr 20 2021 MiTek Industries, Inc. Tue May 11 18:31:37 2021 Page 1

ID:0uxsgkccQW60cxv8huYxpSyl0nF-2\_WtxLFIGTu9r3mVU2zZf1sqUTxYCtahnXHG7WzHUka



Scale = 1:25.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.03 8-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	0.03 8-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 50 lb	FT = 20%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=92(LC 10)  
Max Uplift 2=102(LC 12), 6=102(LC 13)  
Max Grav 2=417(LC 1), 6=417(LC 1)

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

TOP CHORD 2-4=-344/456, 4-6=-344/456  
WEBS 4-8=-332/196

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) 1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 4-7-0, Corner(3R) 4-7-0 to 7-7-0, Exterior(2N) 7-7-0 to 10-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 2=102, 6=102.



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



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Tampa, FL 33610



# Symbols

## PLATE LOCATION AND ORIENTATION



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

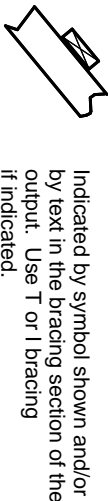
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

## PLATE SIZE

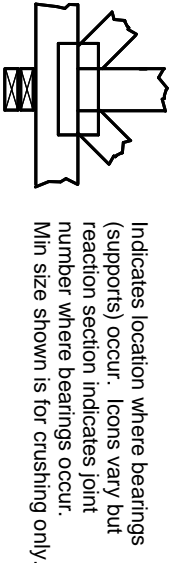
4 X 4

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

## LATERAL BRACING LOCATION



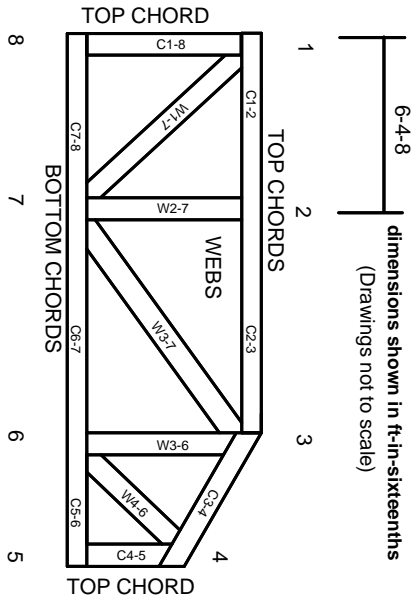
## BEARING



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

**Industry Standards:**  
ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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

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

## PRODUCT CODE APPROVALS

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

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

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

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

# General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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