



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

RE: 2918720 - STEVE SMITH - NEWTON

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

Site Information:

Customer Info: Steve Smith Const. Project Name: Newton Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Levy 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 18 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
1	T25172981	CJ01	8/27/21
2	T25172982	CJ03	8/27/21
3	T25172983	CJ05	8/27/21
4	T25172984	EJ01	8/27/21
5	T25172985	HJ10	8/27/21
6	T25172986	T01	8/27/21
7	T25172987	T02	8/27/21
8	T25172988	T03	8/27/21
9	T25172989	T04	8/27/21
10	T25172990	T05	8/27/21
11	T25172991	T06	8/27/21
12	T25172992	T07	8/27/21
13	T25172993	T08	8/27/21
14	T25172994	T08G	8/27/21
15	T25172995	T09	8/27/21
16	T25172996	T10	8/27/21
17	T25172997	T10G	8/27/21
18	T25172998	T11	8/27/21

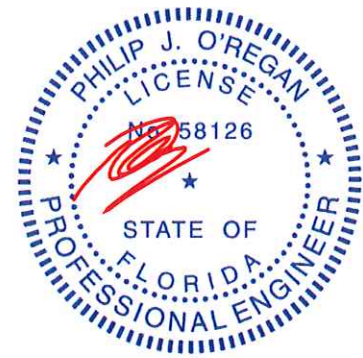


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc.
under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: O'Regan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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



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

August 27, 2021

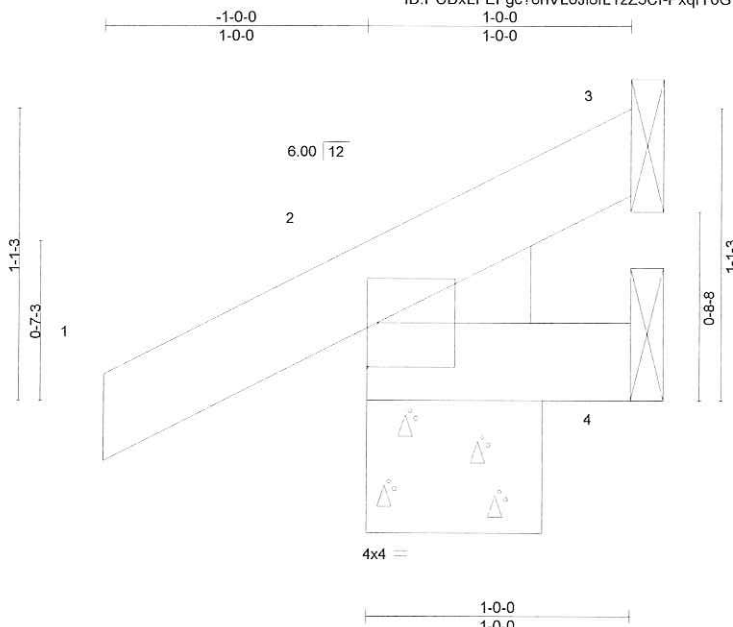
O'Regan, Philip

1 of 1

Job 2918720	Truss CJ01	Truss Type Jack-Open	Qty 4	Ply 1	STEVE SMITH - NEWTON	T25172981
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MITek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-PxqY0GY8dKSCS44ZeQWm8nQfu?Vyal7MPJyryjwEB



Scale = 1:8.3

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.06	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.01	Vert(CT)	-0.00	5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MP						Weight: 6 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 10-0-0 oc purlins.

BOT CHORD

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

REACTIONS.

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

Max Horz 2=32(LC 12)

Max Uplift 3=-8(LC 12), 2=-32(LC 12), 4=-1(LC 12)

Max Grav 3=8(LC 1), 2=118(LC 1), 4=12(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, 4.



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Date:

August 27, 2021

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

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

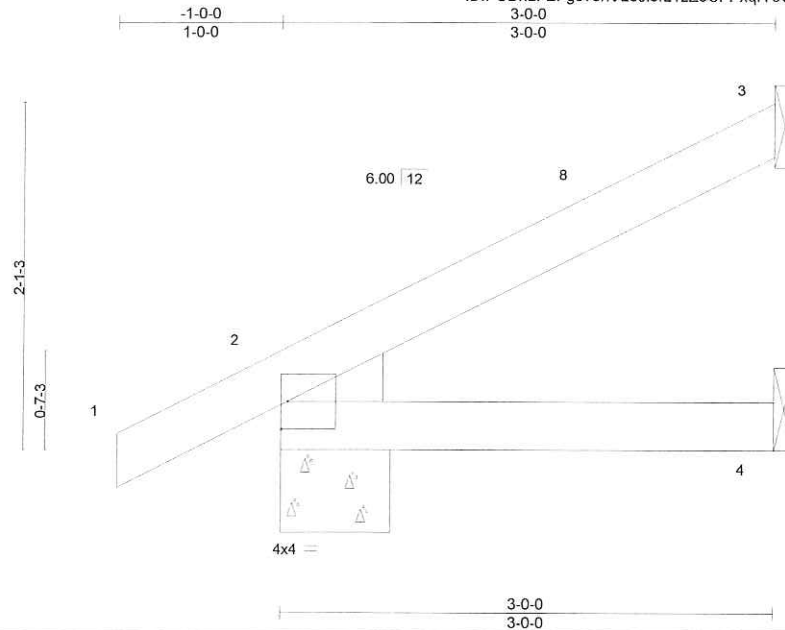


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172982
2918720	CJ03	Jack-Open	4	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFGc78hVLoJl8lL1zZ5Cf-PxqtY0GY8dKSCS44ZeQWm8nPlu_Lyalf7MPJryjwEB



Scale = 1:13.4

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2'-0"	TC 0.08	Vert(LL)	0.01	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: 12 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" oc purlins.

BOT CHORD

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

REACTIONS.

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

Max Horz 2=65(LC 12)

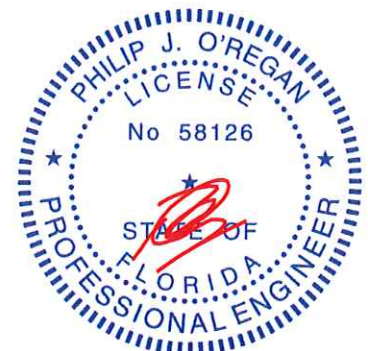
Max Uplift 3=-40(LC 12), 2=-36(LC 12), 4=-4(LC 12)

Max Grav 3=64(LC 1), 2=172(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'-0" to 2'-0", Interior(1) 2'-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" tall by 2'-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.



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Date:

August 27, 2021

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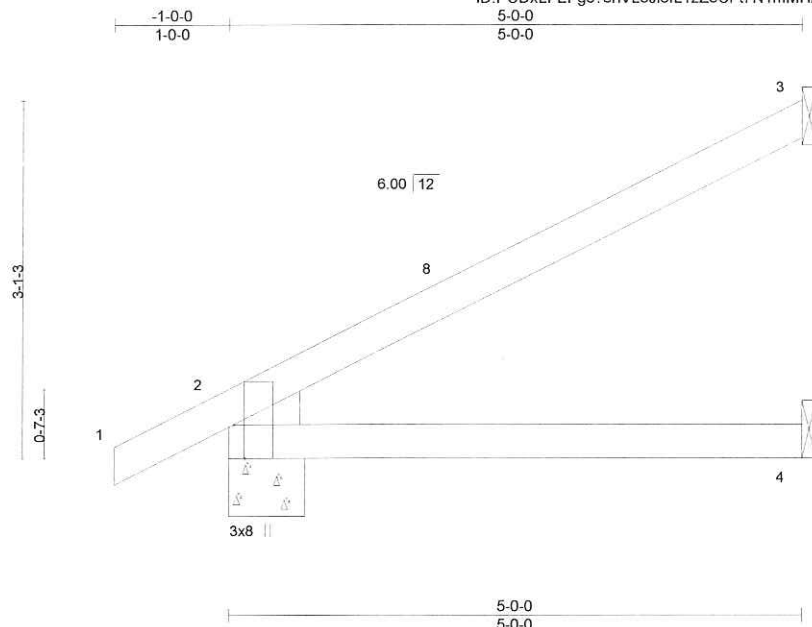


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172983
2918720	CJ05	Jack-Open	4	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1
ID:PCDxLFEFGc78hVLoJl8IL1zZ5Cf-17N1mMHAvxSJpbG7LxJLKXnHHmh1_oM08tUlyjwEA



Scale = 1:19.2

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 0.29	Vert(LL)	0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 18 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 5-0-0 oc purlins.

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

REACTIONS.

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

Max Horz 2=100(LC 12)

Max Uplift 3=-70(LC 12), 2=-46(LC 12), 4=-4(LC 12)

Max Grav 3=115(LC 1), 2=242(LC 1), 4=89(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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.



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Date:

August 27,2021

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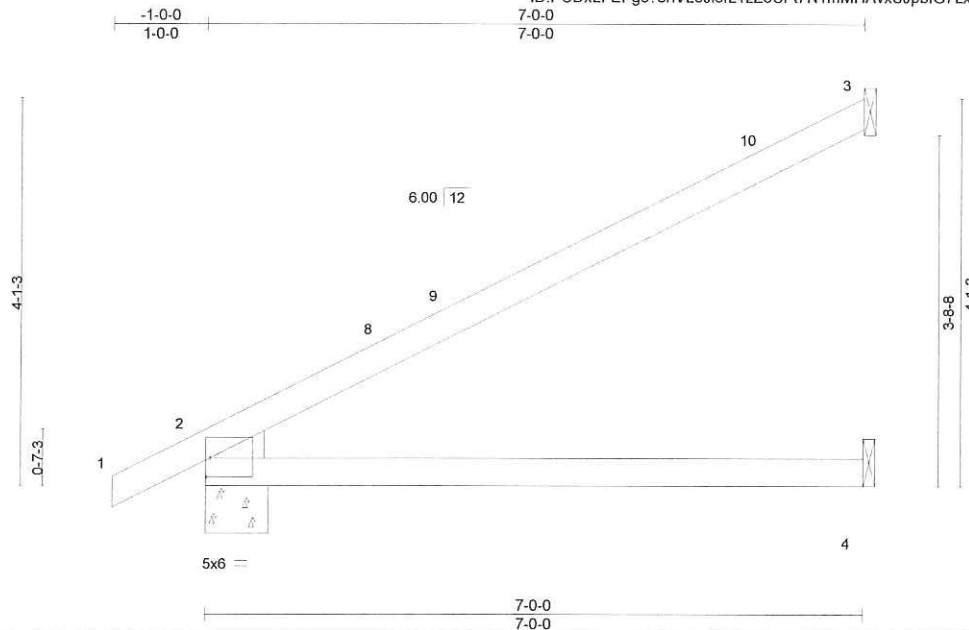
6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss EJ01	Truss Type Jack-Partial	Qty 24	Ply 1	STEVE SMITH - NEWTON	T25172984
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1

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Scale = 1:23.4

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.64	Vert(LL)	0.13	4-7	>660	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.23	4-7	>369	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: 25 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 6-0-0 oc purlins.

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

REACTIONS.

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

Max Horz 2=129(LC 12)

Max Uplift 3=-88(LC 12), 2=-59(LC 12), 4=-3(LC 12)

Max Grav 3=165(LC 1), 2=315(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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.



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Date:

August 27,2021

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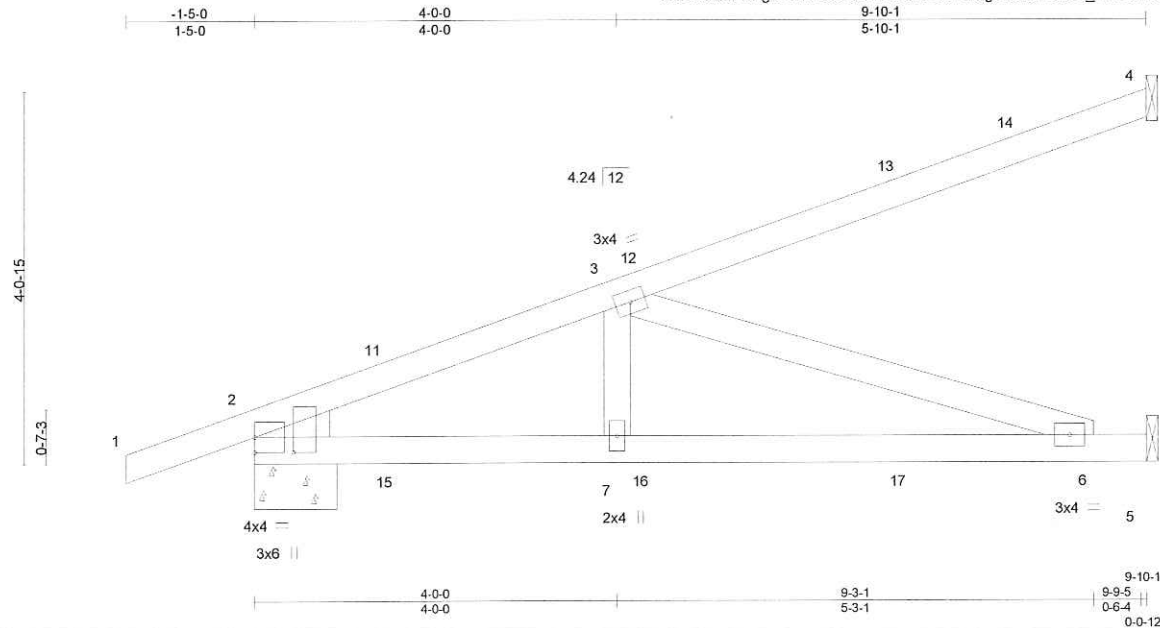


6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON	T25172985
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 1
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Scale = 1:24.3

Plate Offsets (X,Y)-- [2:0-2-0,0-5-3]											
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	0.75	Vert(LL)	0.09	6-7	>999	240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.19	6-7	>613	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.01	5	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 44 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.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=137(LC 4)
Max Uplift 4=90(LC 4), 2=175(LC 4), 5=96(LC 8)
Max Grav 4=170(LC 1), 2=488(LC 1), 5=299(LC 1)

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

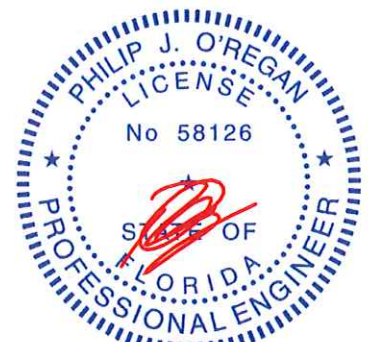
TOP CHORD 2-3=-803/255
BOT CHORD 2-7=-331/738, 6-7=-331/738
WEBS 3-7=-6/285, 3-6=-776/348

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=175.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 9 lb up at 1'-6-1, 53 lb down and 9 lb up at 1'-6-1, 23 lb down and 43 lb up at 4'-4-0, 23 lb down and 43 lb up at 4'-4-0, and 44 lb down and 81 lb up at 7'-1-15, and 44 lb down and 81 lb up at 7'-1-15 on top chord, and 5 lb down and 3 lb up at 1'-6-1, 5 lb down and 3 lb up at 1'-6-1, 20 lb down and 13 lb up at 4'-4-0, 20 lb down and 13 lb up at 4'-4-0, and 39 lb down and 20 lb up at 7'-1-15, and 39 lb down and 20 lb up at 7'-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20



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Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 36610

Job 2918720	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON T25172985
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-LJxPzilogEa9RIESh3S_rZsbOhUoQNmyaguQ1kyjwE9

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-2(F=-1, B=-1) 13=-77(F=-39, B=-39) 15=6(F=3, B=3) 16=-17(F=-8, B=-8) 17=-68(F=-34, B=-34)

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 2918720	Truss T01	Truss Type Half Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON	T25172986
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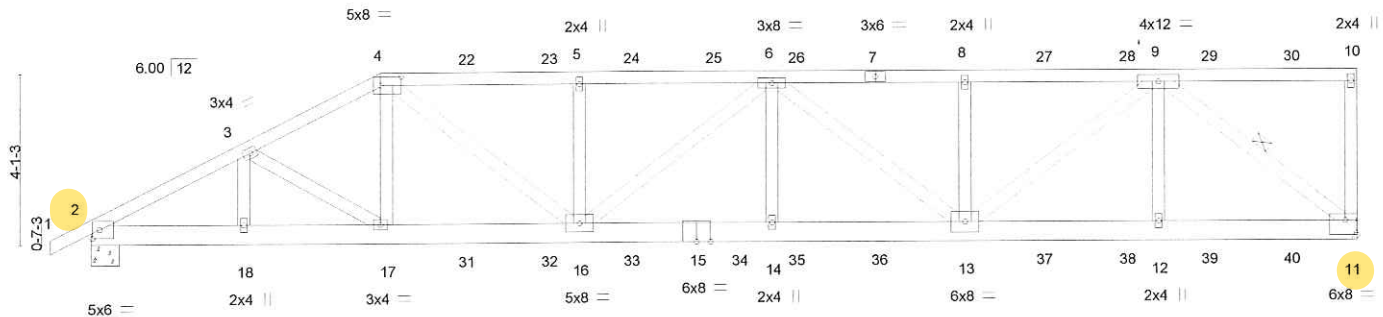
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page 1

ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-Hi390OK2Csqth3OroTUTw_yx8V7FuAfF2zNX5cyjwE7

1-0-0	3-8-4	7-0-0	11-9-14	16-5-15	21-2-1	25-10-2	30-8-0
1-0-0	3-8-4	3-3-12	4-9-14	4-8-2	4-8-2	4-8-2	4-9-14

Scale = 1:53.3



3-8-4	7-0-0	11-9-14	16-5-15	21-2-1	25-10-2	30-8-0
3-8-4	3-3-12	4-9-14	4-8-2	4-8-2	4-8-2	4-9-14

Plate Offsets (X,Y)-- [2:0-2-0,0-2-8], [4:0-6-0,0-2-8], [11:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.23 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.44 14-16	>841	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 199 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-7: 2x4 SP M 31
BOT CHORD 2x6 SP M 26 *Except*
11-15: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS.

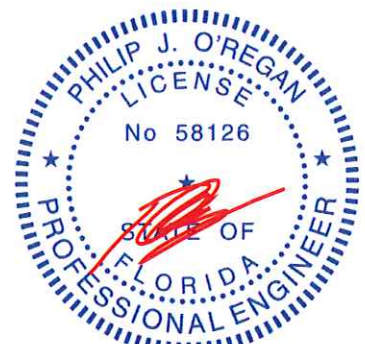
(size) 11=Mechanical, 2=0-8-0
Max Horz 2=136(LC 8)
Max Uplift 11=831(LC 5), 2=733(LC 8)
Max Grav 11=2462(LC 1), 2=2267(LC 1)

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

TOP CHORD 2-3=-4010/1305, 3-4=-4182/1405, 4-5=-4939/1670, 5-6=-4939/1670, 6-8=-4411/1489, 8-9=-4411/1489
BOT CHORD 2-18=-1242/3532, 17-18=-1242/3532, 16-17=-1286/3737, 14-16=-1743/5171, 13-14=-1743/5171, 12-13=-928/2743, 11-12=-928/2743
WEBS 3-18=-322/154, 3-17=-235/344, 4-17=-129/585, 4-16=-550/1570, 5-16=-547/287, 6-16=-338/125, 6-14=-5/398, 6-13=-971/369, 8-13=-492/256, 9-13=-717/2133, 9-12=0/422, 9-11=-3464/1169

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) 11=831, 2=733.



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

August 27, 2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T01	Truss Type Half Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON T25172986
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page 2
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Hi3900K2Csqth3OroTUTw_yx8V7FuAIF2zNX5cyjwE7

NOTES-

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 7-0-0, 111 lb down and 92 lb up at 9-0-12, 111 lb down and 92 lb up at 11-0-12, 111 lb down and 92 lb up at 13-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 17-0-12, 111 lb down and 87 lb up at 19-0-12, 111 lb down and 92 lb up at 21-0-12, 111 lb down and 92 lb up at 23-0-12, 111 lb down and 92 lb up at 25-0-12, and 111 lb down and 92 lb up at 27-0-12, and 111 lb down and 92 lb up at 29-0-12 on top chord, and 339 lb down and 148 lb up at 7-0-0, 86 lb down and 23 lb up at 9-0-12, 86 lb down and 23 lb up at 11-0-12, 86 lb down and 23 lb up at 13-0-12, 86 lb down and 23 lb up at 15-0-12, 86 lb down and 23 lb up at 17-0-12, 86 lb down and 23 lb up at 19-0-12, 86 lb down and 23 lb up at 21-0-12, 86 lb down and 23 lb up at 23-0-12, 86 lb down and 23 lb up at 25-0-12, and 86 lb down and 23 lb up at 27-0-12, and 86 lb down and 23 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

10) 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: 1-4=-54, 4-10=-54, 11-19=-20

Concentrated Loads (lb)

Vert: 4=-111(B) 7=-111(B) 17=-339(B) 8=-111(B) 13=-68(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-111(B) 27=-111(B) 28=-111(B) 29=-111(B)
30=-111(B) 31=-68(B) 32=-68(B) 33=-68(B) 34=-68(B) 35=-68(B) 36=-68(B) 37=-68(B) 38=-68(B) 39=-68(B) 40=-68(B)



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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172987
2918720	T02	Hip	2	1		

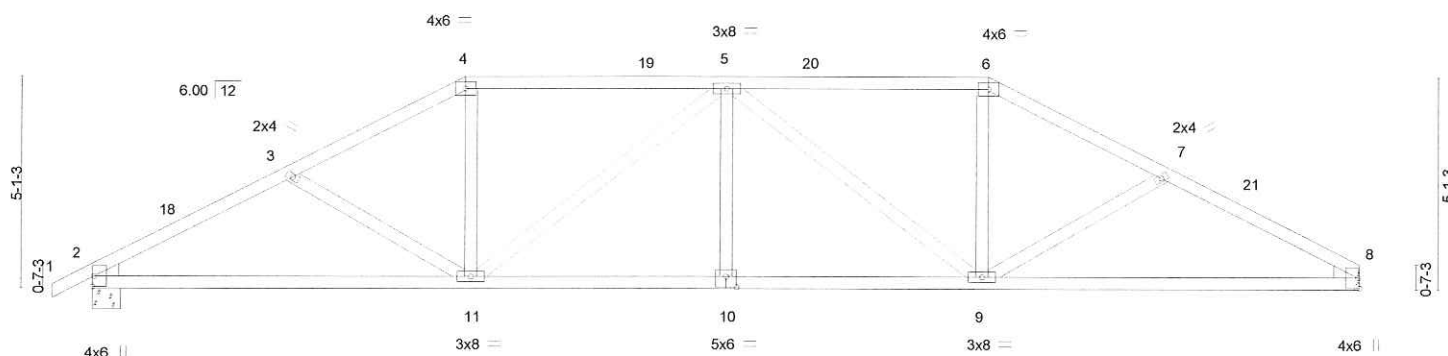
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:11 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5CF-ludYckKhzykIDy1MB?ITBUALvXJdh_OGd64d3yJwE6

1-0-0	4-9-12	9-0-0	15-4-0	21-8-0	25-10-4	30-8-0
1-0-0	4-9-12	4-2-4	6-4-0	6-4-0	4-2-4	4-9-12

Scale = 1:53.2



9-0-0	15-4-0	21-8-0	30-8-0
9-0-0	6-4-0	6-4-0	9-0-0

Plate Offsets (X,Y)-- [10:0-3-0,0-3-0]

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 0.45	Vert(LL)	-0.13	10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.25	9-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 155 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 3-10-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 8=Mechanical
Max Horz 2=82(LC 16)
Max Uplift 2=-266(LC 12), 8=-244(LC 13)
Max Grav 2=1190(LC 1), 8=1134(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1955/439, 3-4=-1753/379, 4-5=-1538/371, 5-6=-1541/372, 6-7=-1756/382,
7-8=-1962/442
BOT CHORD 2-11=-403/1689, 10-11=-343/1862, 9-10=-343/1862, 8-9=-339/1697
WEBS 4-11=-71/501, 5-11=-499/164, 5-9=-497/163, 6-9=-71/502

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 13-4-1, Interior(1) 13-4-1 to 21-8-0, Exterior(2R) 21-8-0 to 26-0-1, Interior(1) 26-0-1 to 30-8-0 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.
- 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=266, 8=244.



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

August 27,2021

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T25172988

Job Reference (optional)

8430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:13 2021 Page 1

ID:PCDxLFEFgc?8hVLoJI8fL1zZ5Cf-E4Bwp4LJkT4bwNXDwuXx0P1LhIsPMD1XVHseAVviwE5

Scale = 1:53.2



LOADING (psf)	
TCLL	20.0
TCDL	7.0
BCLL	0.0
BCDL	10.0

SPACING-	2-0-0
Plate Grip DOL	1.25
Lumber DOL	1.25
Rep Stress Incr	YES
Code	FRC2020/TPI2014

CSI.
TC
BC
WB
Matr

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.23	10-12	>999	240
Vert(CT)	-0.40	10-12	>914	180
Horz(CT)	0.09	8	n/a	n/a

PLATES	GRIP
MT20	244/190

Weight: 162 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 3-8-12 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS.

(size) 2=0-8-0, 8=Mechanical
Max Horz 2=97(LC 16)
Max Uplift 2=-263(LC 12), 8=-242(LC 13)
Max Grav 2=1275(LC 2), 8=1230(LC 2)

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

TOP CHORD 2-3=-2113/416, 3-4=-1781/371, 4-5=-1558/364, 5-6=-1559/362, 6-7=-1782/372,
7-8=-2119/420

BOT CHORD 2-13=-393/1836, 12-13=-393/1836, 10-12=-238/1628, 9-10=-315/1842, 8-9=-315/1842

WEBS 3-12=-354/177, 4-12=-78/567, 5-12=-257/114, 5-10=-256/113, 6-10=-77/568,
7-10=-360/180

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-0, Interior(1) 15-4-0 to 19-8-0, Exterior(2R) 19-8-0 to 24-0-1, Interior(1) 24-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 8=242.



Date. August 27, 2021



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

WARNING: Velly design parameters and READ NOTES ON THIS and INCLUDED WITH REFERENCE PAGE MM-1473 (REV. 3/19/2020) 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, 20670 Crain Highway, Suite 203 Waldorf, MD 20601



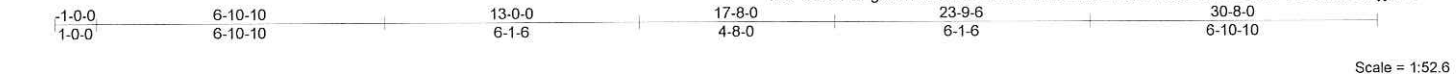
6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172989
2918720	T04	Hip	2	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:13 2021 Page 1

ID:PCDxLFfGc?8hVLoJl8L1zZ5Cf-iHlI0PMxVnDSYw6QUc2AYcaWlF05ddhKxbBixyWE4



Scale = 1:52.6

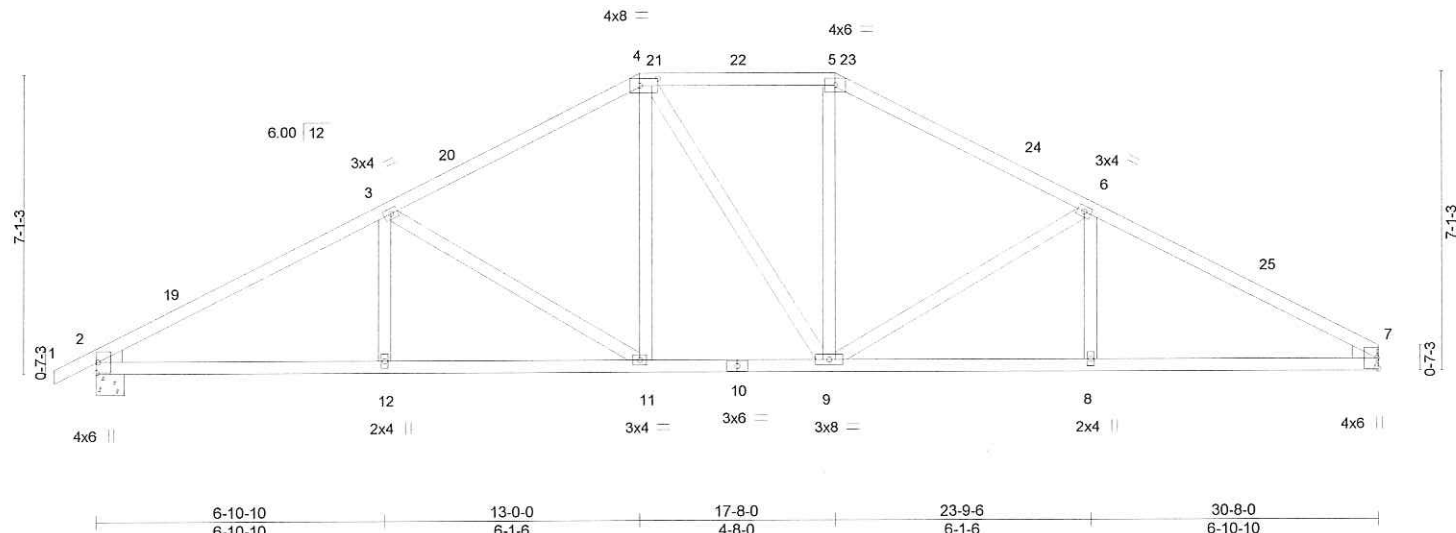


Plate Offsets (X,Y)--		[4:0-5-4,0-2-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	-0.10 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.21 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 161 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

BOT CHORD

Structural wood sheathing directly applied or 3-10-5 oc purlins.

Rigid ceiling directly applied or 9-5-9 oc bracing.

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=112(LC 16)

Max Uplift 2=-260(LC 12), 7=-239(LC 13)

Max Grav 2=1190(LC 1), 7=1134(LC 1)

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

TOP CHORD 2-3=-1946/402, 3-4=-1489/362, 4-5=-1267/358, 5-6=-1491/363, 6-7=-1952/404

BOT CHORD 2-12=-384/1670, 11-12=-384/1670, 9-11=-200/1267, 8-9=-300/1676, 7-8=-300/1676

WEBS 3-11=-493/217, 4-11=-78/388, 5-9=-69/389, 6-9=-499/220

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-1, Interior(1) 17-4-1 to 17-8-0, Exterior(2R) 17-8-0 to 22-0-1, Interior(1) 22-0-1 to 30-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 7=239.



Philip J. O'Regan PE No.58126

MiTek USA, Inc. FL Cert 6634

6904 Parke East Blvd. Tampa FL 33610

Date:

August 27, 2021

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

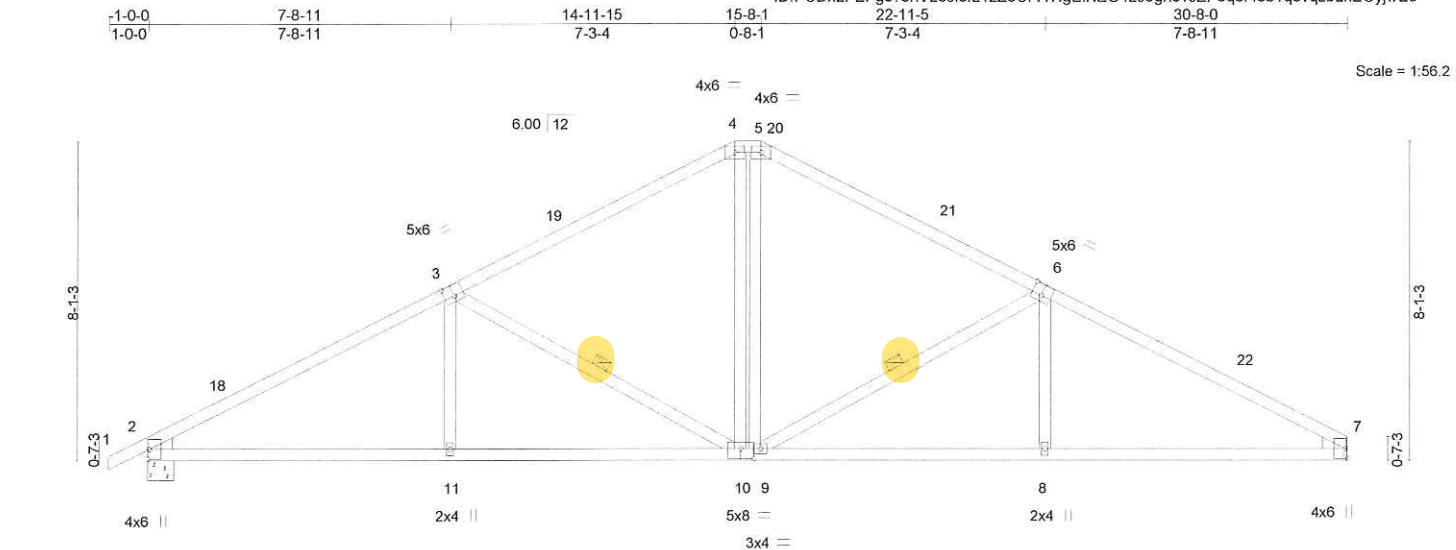
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T05	Truss Type Hip	Qty 2	Ply 1	STEVE SMITH - NEWTON	T25172990
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:14 2021 Page 1
ID:PCDXLFEGc78hVLoJl8fL1zZ5Cf-ATlgEINZG4LJ9ghc1JZP5q6f46b1q8vqzbLkEOyJwE3



		7-8-11		14-11-15		15-8-1		22-11-5		30-8-0	
		7-8-11		7-3-4		0-8-1		7-3-4		7-8-11	
Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [6:0-3-0,0-3-4], [10:0-4-0,0-3-0]											
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 0.54		Vert(LL) -0.10 10-11		>999 240		MT20 244/190	
TCDL 7.0		Lumber DOL 1.25		BC 0.61		Vert(CT) -0.22 10-11		>999 180			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.24		Horz(CT) 0.07 7		n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 158 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
BOT CHORD
WEBS
Structural wood sheathing directly applied or 3-10-12 oc purlins.
Rigid ceiling directly applied or 9-4-14 oc bracing.
1 Row at midpt 3-10, 6-9

REACTIONS. (size) 2=0-8-0, 7=Mechanical
Max Horz 2=126(LC 12)
Max Uplift 2=-257(LC 12), 7=-235(LC 13)
Max Grav 2=1190(LC 1), 7=1134(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1927/390, 3-4=-1362/327, 4-5=-1140/329, 5-6=-1364/330, 6-7=-1932/393
BOT CHORD 2-11=-381/1648, 10-11=-382/1647, 9-10=-150/1140, 8-9=-272/1652, 7-8=-272/1653
WEBS 3-11=0/289, 3-10=-621/266, 4-10=-127/433, 5-9=-127/433, 6-9=-626/268, 6-8=0/289

- 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 14-11-15, Exterior(2E) 14-11-15 to 15-8-1, Exterior(2R) 15-8-1 to 20-0-1, Interior(1) 20-0-1 to 30-8-0 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.
 - 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=257, 7=235.



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MiTek USA, Inc. FL Cert 6634
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Date:

August 27, 2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T06	Truss Type Common	Qty 2	Ply 1	STEVE SMITH - NEWTON	T25172991
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDxLFEFGc78hVLoJl8fL1zZ5Cf-efs2R5NB1OTAnqGob14ed1foFWwMZaa_BF4ImqjwE2

1-0-0 7-8-2 15-4-0 22-11-15 30-8-0
1-0-0 7-8-2 7-7-15 7-7-15 7-8-1

Scale = 1:53.7

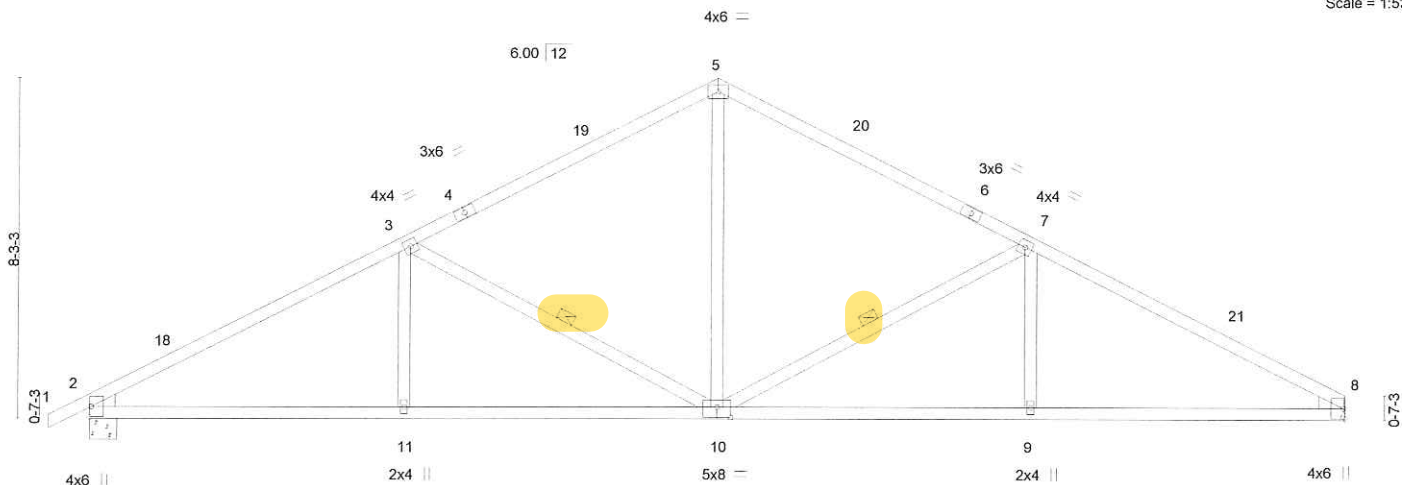


Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [10:0-4-0,0-3-0]

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 0.64	Vert(LL)	-0.10 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.23 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS						
								Weight: 148 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 3-9-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.
WEBS 1 Row at midpt 7-10, 3-10

REACTIONS.

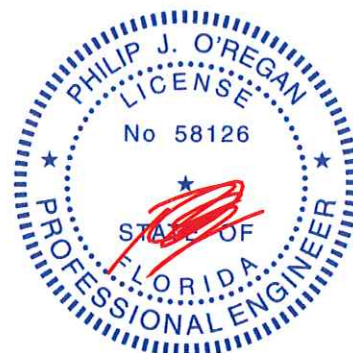
(size) 2=0-8-0, 8=Mechanical
Max Horz 2=129(LC 12)
Max Uplift 2=-256(LC 12), 8=-235(LC 13)
Max Grav 2=1190(LC 1), 8=1134(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1932/391, 3-5=-1356/335, 5-7=-1357/337, 7-8=-1937/395
BOT CHORD 2-11=-386/1654, 10-11=-386/1654, 9-10=-281/1660, 8-9=-281/1660
WEBS 5-10=-126/739, 7-10=-639/274, 7-9=0/289, 3-10=-633/272, 3-11=0/288

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13, Interior(1) 18-4-13 to 30-8-0 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.
- 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=256, 8=235.



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Date:

August 27,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172992
2918720	T07	Roof Special	10	1	Job Reference (optional)	

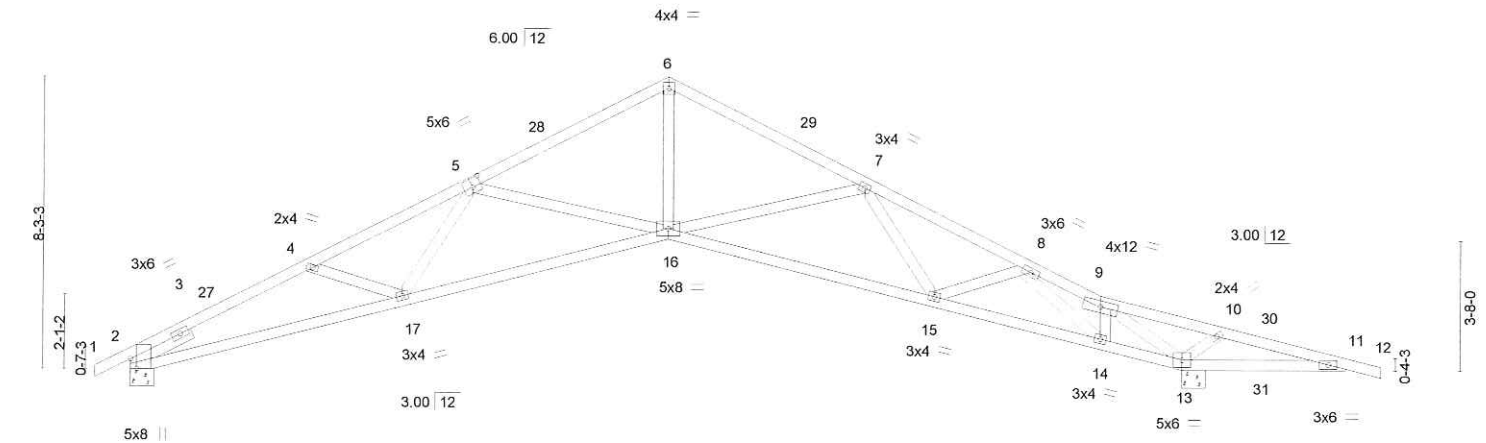
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:16 2021 Page 1

ID:PCDXLFEFGc78hVL0Jl8fL1zZ5Cf-6sQRfROpoib1P_r79kbtAFC_1wAhly97QvqrJGyiwE1

-1-0-0	5-2-2	9-8-13	15-4-0	20-11-3	25-5-14	27-8-1	31-0-0	34-8-0	35-8-0
1-0-0	5-2-2	4-6-12	5-7-3	5-7-3	4-6-11	2-2-3	3-3-15	3-8-0	1-0-0

Scale = 1:62.8



7-8-13	15-4-0	22-11-2	27-8-1	30-0-0	30-8-0	34-8-0
7-8-13	7-7-3	7-7-2	4-8-15	2-3-15	0-8-0	4-0-0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	Vert(LL)	-0.28 16-17	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.98	Vert(CT)	-0.58 16-17	>619	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.58	Horz(CT)	0.33 13	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS						
	Code FBC2020/TPI2014						Weight: 170 lb	FT = 20%

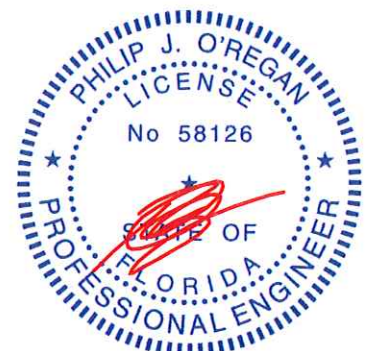
LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
1-5: 2x4 SP M 31
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 13=0-8-0
Max Horz 2=123(LC 16)
Max Uplift 2=-252(LC 12), 13=-350(LC 13)
Max Grav 2=1141(LC 1), 13=1532(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2676/624, 4-5=-2662/588, 5-6=-2087/434, 6-7=-2082/423, 7-8=-2431/391,
8-9=-1248/235, 9-10=-838/882, 10-11=-710/648
BOT CHORD 2-17=-607/2339, 16-17=-529/2443, 15-16=-307/2245, 14-15=-276/1923, 13-14=-174/1242,
11-13=-597/703
WEBS 5-16=-615/292, 6-16=-252/1524, 7-16=-431/249, 8-15=-145/306, 8-14=-1192/619,
9-14=-302/684, 9-13=-2447/602, 10-13=-320/219

- 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) -1-0-0 to 2-5-10, Interior(1) 2-5-10 to 15-4-0, Exterior(2R) 15-4-0 to 18-9-10, Interior(1) 18-9-10 to 35-8-0 zone; cantilever 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.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 13=350.



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6904 Parke East Blvd. Tampa FL 33610
Date:

August 27,2021

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172993
2918720	T08	Common	1	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:17 2021 Page 1
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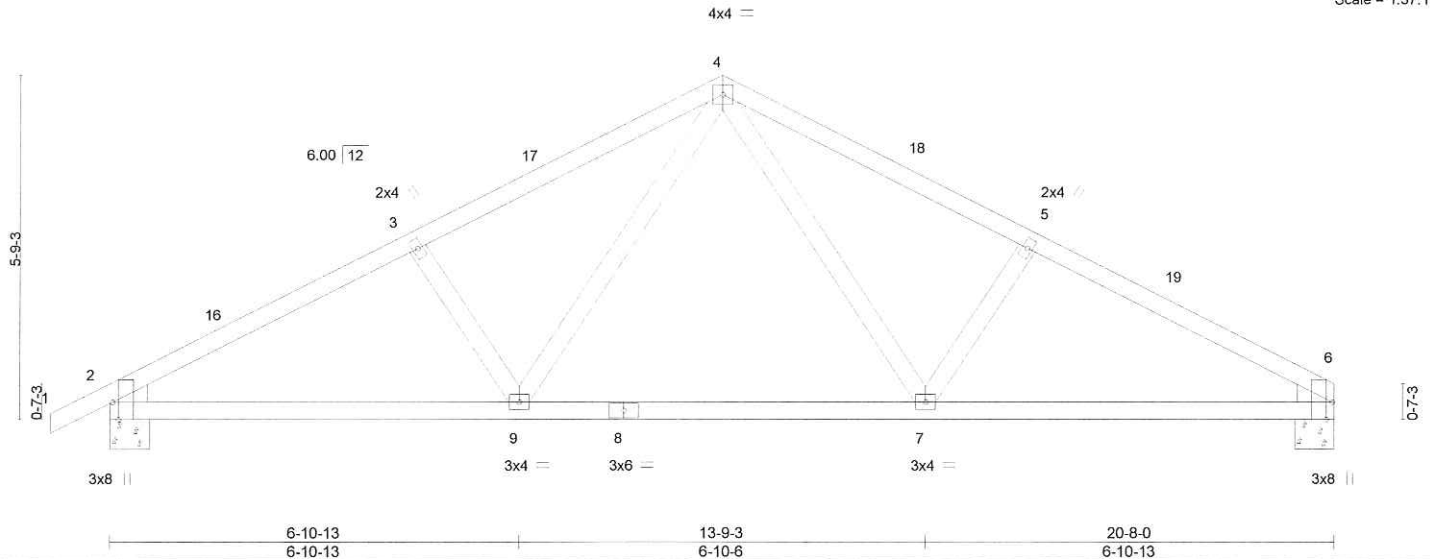


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [6:0-3-8,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.28		Vert(LL)	-0.06 7-9	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.45		Vert(CT)	-0.13 7-9	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.16		Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS						Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 5-1-13 oc purlins.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 6=0-8-0

Max Horz 2=92(LC 12)

Max Uplift 2=-179(LC 12), 6=-158(LC 13)

Max Grav 2=820(LC 1), 6=763(LC 1)

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

TOP CHORD 2-3=-1238/343, 3-4=-1106/347, 4-5=-1110/354, 5-6=-1242/349

BOT CHORD 2-9=-260/1057, 7-9=-122/725, 6-7=-256/1063

WEBS 4-7=-122/414, 5-7=-257/168, 4-9=-120/407, 3-9=-253/167

NOTES-

1) Unbalanced roof live loads have been considered for this design.

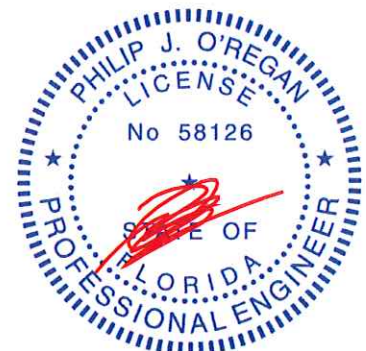
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 6=158.



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

August 27, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172994
2918720	T08G	Common Supported Gable	1	1		

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

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ID:PCDXLFEFGc?8hVLoJl8L1zZ5Cf-2EYB47Q4KJrl?NG9dLFgHTij5nm?sQuDJyN9yJwE?

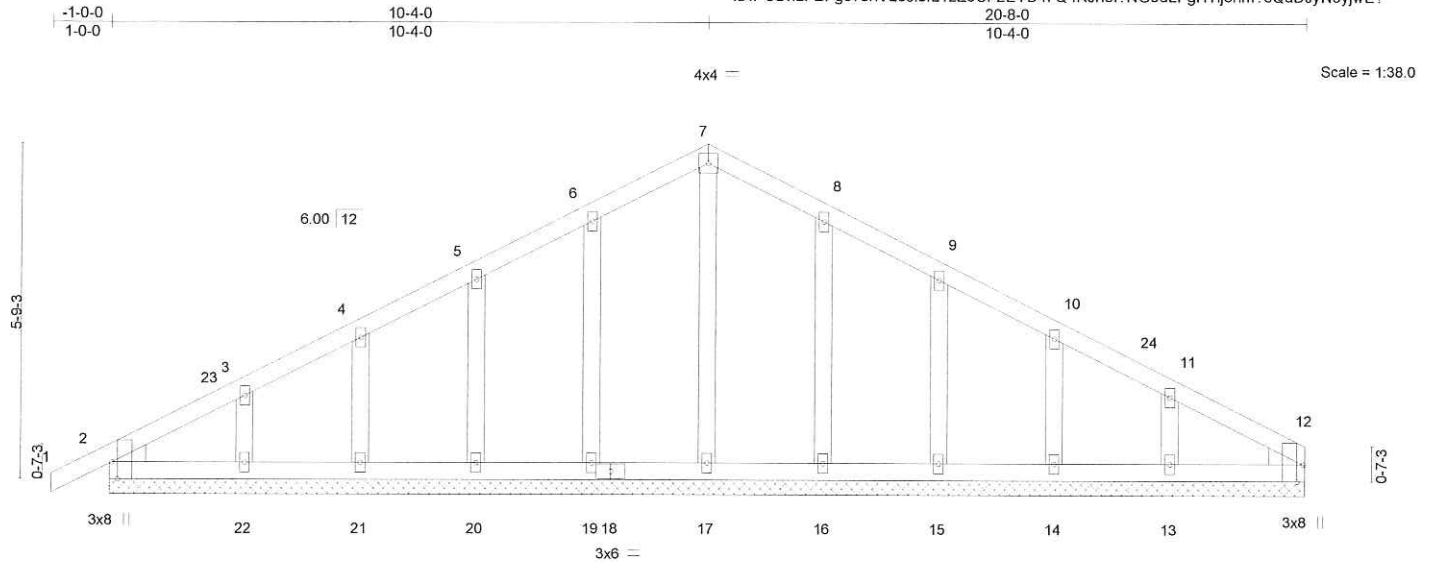


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-3-8,Edge]
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LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.05	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 109 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 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. All bearings 20-8-0.
(lb) - Max Horz 2=87(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 17, 19, 20, 21, 22, 16, 15, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 20-8-0 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13.



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

August 27, 2021

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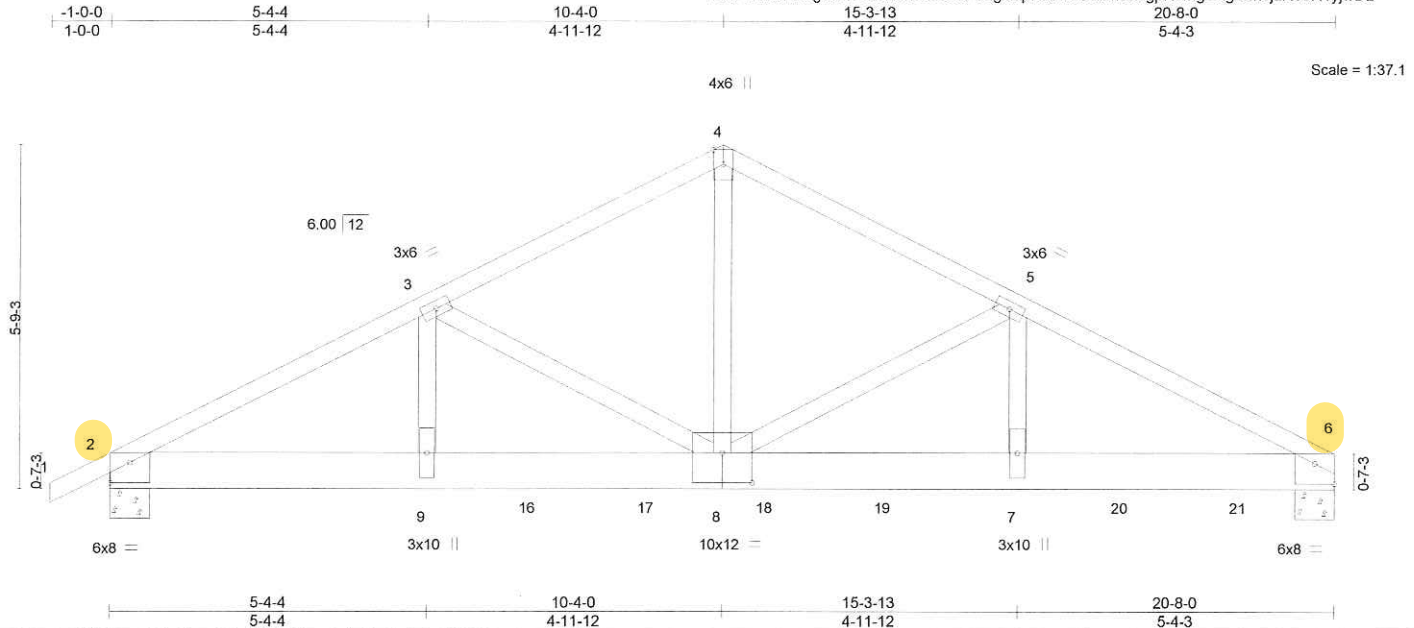
6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON	T25172995
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc78hVLoJl8IL1zZ5Cf-7dgpUpRKrw5Stb8mOagpK5MgZXgzEk3jLXo3R1yJwDz



Scale = 1:37.1

Plate Offsets (X,Y)-- [2:Edge,0-4-1], [6:Edge,0-4-1], [8:0-6-0,0-6-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.61	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.27	8-9	>933	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 260 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
4-8: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-8-0, 2=0-8-0
Max Horz 2=92(LC 8)
Max Uplift 6=1440(LC 9), 2=1199(LC 8)
Max Grav 6=6159(LC 1), 2=4549(LC 1)

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

TOP CHORD 2-3=-9161/2430, 3-4=-7442/1891, 4-5=-7455/1891, 5-6=-10284/2435
BOT CHORD 2-9=-2188/8128, 8-9=-2188/8128, 7-8=-2120/9148, 6-7=-2120/9148
WEBS 4-8=-1582/6323, 5-8=-2928/675, 5-7=-449/2451, 3-8=-1755/666, 3-9=-456/1412

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 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.
- 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) 6=1440, 2=1199.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, 1114 lb down and 259 lb up at 13-0-12, 1114 lb down and 255 lb up at 15-0-12, and 1114 lb down and 255 lb up at 17-0-12, and 1114 lb down and 255 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Date:

August 27,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172995
2918720	T09	Common Girder	1	2	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1114(B) 16=-2442(B) 17=-1114(B) 18=-1114(B) 19=-1114(B) 20=-1114(B) 21=-1114(B)

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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172996
2918720	T10	Common	1	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1

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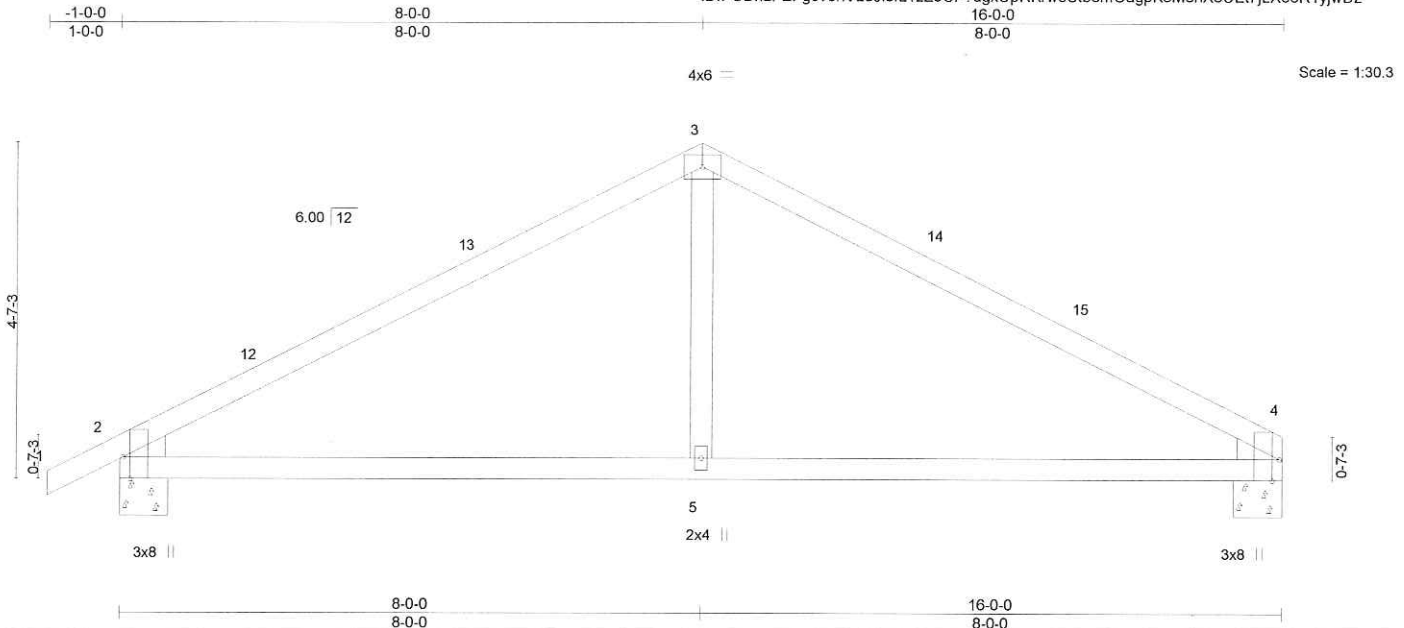


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-8,Edge]		8-0-0		16-0-0	
		8-0-0		8-0-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.13 5-11 >999 240
TCDL 7.0	Lumber DOL	1.25	BC 0.60	Vert(CT)	-0.21 5-11 >928 180
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.03 2 n/a n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS		
			Weight: 60 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 4-10-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 4=0-8-0
Max Horz 2=74(LC 16)
Max Uplift 2=-144(LC 12), 4=-122(LC 13)
Max Grav 2=648(LC 1), 4=590(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-799/275, 3-4=-798/279
BOT CHORD 2-5=-154/636, 4-5=-154/636
WEBS 3-5=-5/350

- 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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 4=122.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172997
2918720	T10G	Common Supported Gable	1	1	Job Reference (optional)	

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

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ID:PCDXLFEFGc?8hVLoJl8fL1zZ5CF-TpEKi9SycEDJlJyyHB2llv_yx6czMpsaBXczUyJwDy

-1-0-0 8-0-0 16-0-0
1-0-0 8-0-0 8-0-0

Scale = 1:28.8

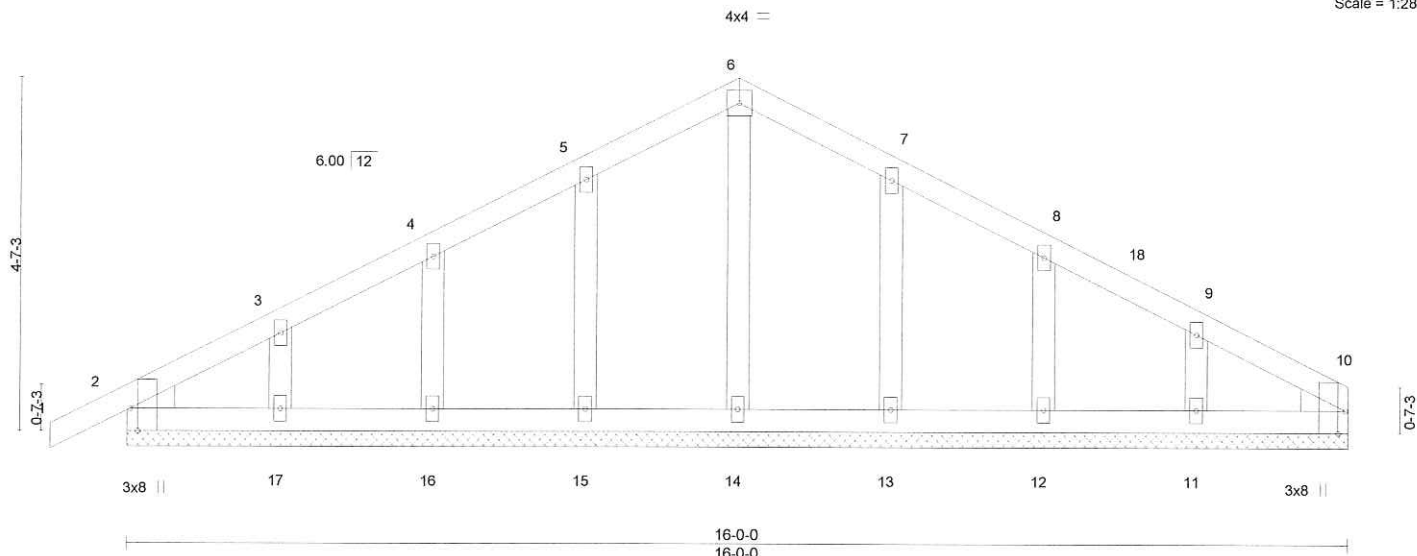


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-3-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.05	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.03	Vert(CT)	-0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 78 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS.

All bearings 16-0-0.

(lb) - Max Horz 2=70(LC 12)

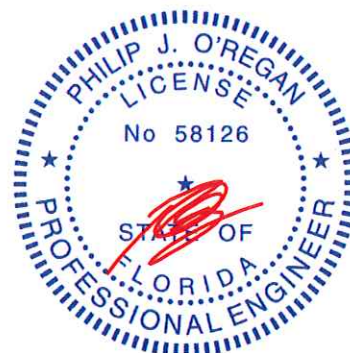
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 17, 13, 12, 11

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 13, 12, 11, 10

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 16-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 17, 13, 12, 11.



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6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T11	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON	T25172998
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 1
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-1-0-0 4-2-4 8-0-0 11-9-12 16-0-0
1-0-0 4-2-4 3-9-12 3-9-12 4-2-4

4x6 ||

Scale = 1:30.3

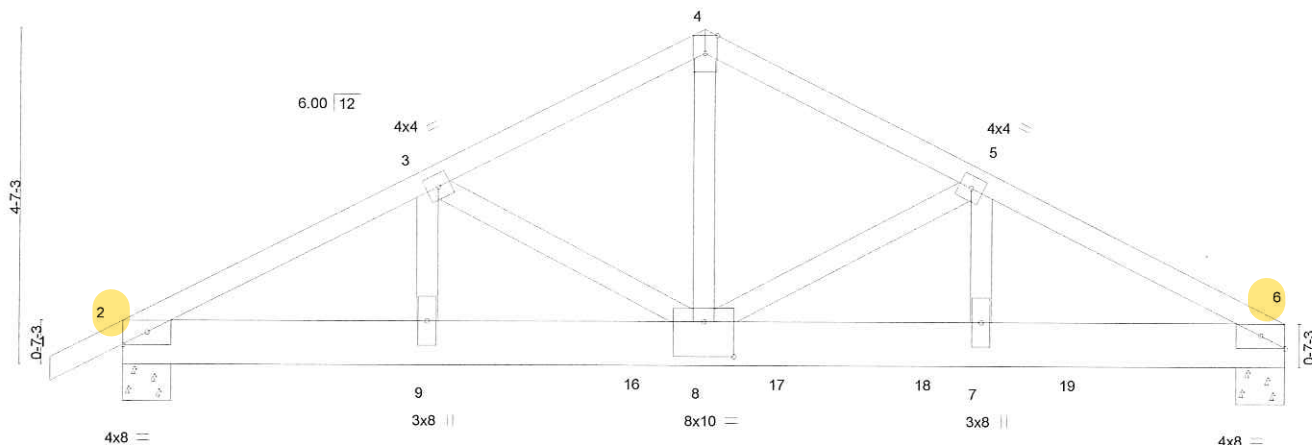


Plate Offsets (X,Y)-- [2:Edge,0-2-1], [6:Edge,0-2-1], [8:0-5-0,0-5-12]

LOADING (psf)	SPACING- (size)	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.07	7-8	>999	240	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.14	7-8	>999	180	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.02	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 201 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-8-0, 2=0-8-0
Max Horz 2=74(LC 8)
Max Uplift 6=-1235(LC 9), 2=-852(LC 8)
Max Grav 6=5047(LC 1), 2=3089(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5843/1619, 3-4=-5629/1556, 4-5=-5629/1555, 5-6=-7517/1901
BOT CHORD 2-9=-1457/5175, 8-9=-1457/5175, 7-8=-1653/6681, 6-7=-1653/6681
WEBS 4-8=-1304/4764, 5-8=-1958/445, 5-7=-292/1657

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: 2x8 - 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.
- 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) 6=1235, 2=852.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, and 1114 lb down and 259 lb up at 13-0-12, and 1114 lb down and 254 lb up at 15-0-12 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



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August 27, 2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T11	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON T25172998
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 12=-1114(F) 16=-2442(F) 17=-1114(F) 18=-1114(F) 19=-1114(F)

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

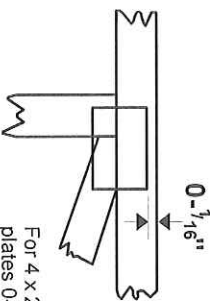
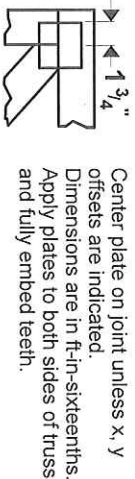
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- 1/16\"/>

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

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

PLATE SIZE

4 X 4

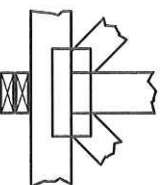
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing.

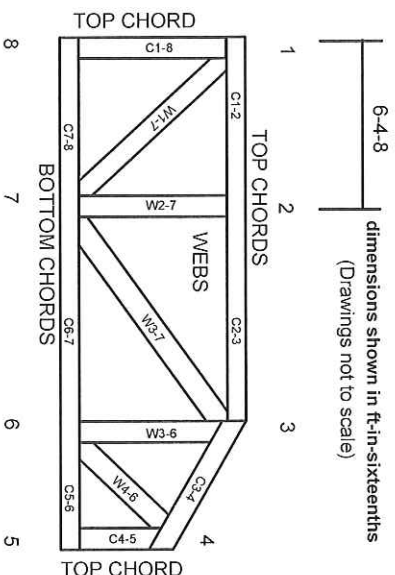
BCSI: Building Component Safety Information,

Guide to Good Practice for Handling,

Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988

ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MIL-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.



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

RE: 2918720 - STEVE SMITH - NEWTON

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Steve Smith Const. Project Name: Newton Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Levy 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

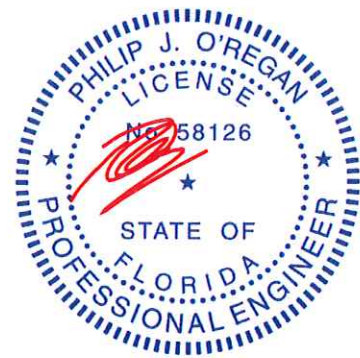
This package includes 18 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T25172981	CJ01	8/27/21
2	T25172982	CJ03	8/27/21
3	T25172983	CJ05	8/27/21
4	T25172984	EJ01	8/27/21
5	T25172985	HJ10	8/27/21
6	T25172986	T01	8/27/21
7	T25172987	T02	8/27/21
8	T25172988	T03	8/27/21
9	T25172989	T04	8/27/21
10	T25172990	T05	8/27/21
11	T25172991	T06	8/27/21
12	T25172992	T07	8/27/21
13	T25172993	T08	8/27/21
14	T25172994	T08G	8/27/21
15	T25172995	T09	8/27/21
16	T25172996	T10	8/27/21
17	T25172997	T10G	8/27/21
18	T25172998	T11	8/27/21

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

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

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



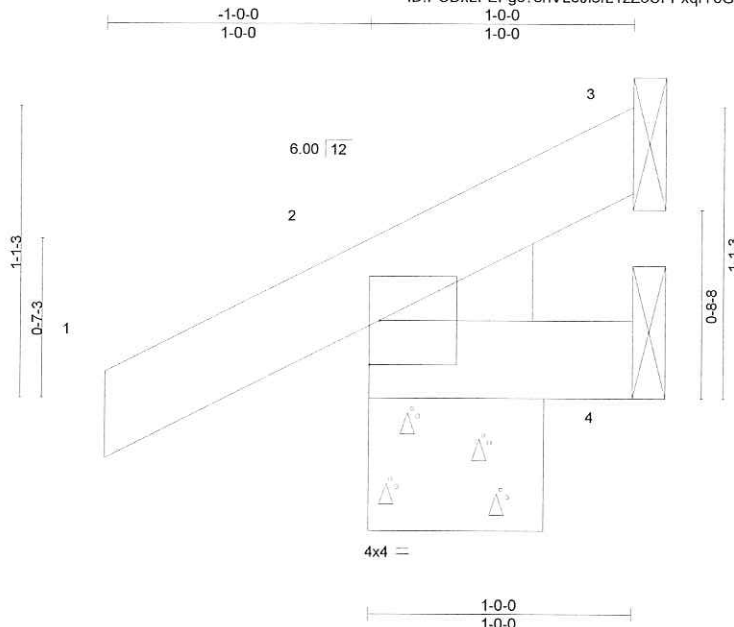
Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 27, 2021

Job 2918720	Truss CJ01	Truss Type Jack-Open	Qty 4	Ply 1	STEVE SMITH - NEWTON	T25172981
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nQfu?Vyal7MPJyryjwEB



Scale = 1:8.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.06	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.01	Vert(CT)	-0.00	5	>999	180		
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: 6 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 1-0-0 oc purlins.

BOT CHORD

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

REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=32(LC 12)
Max Uplift 3=-8(LC 12), 2=-32(LC 12), 4=-1(LC 12)
Max Grav 3=8(LC 1), 2=118(LC 1), 4=12(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, 4.



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

August 27, 2021

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

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

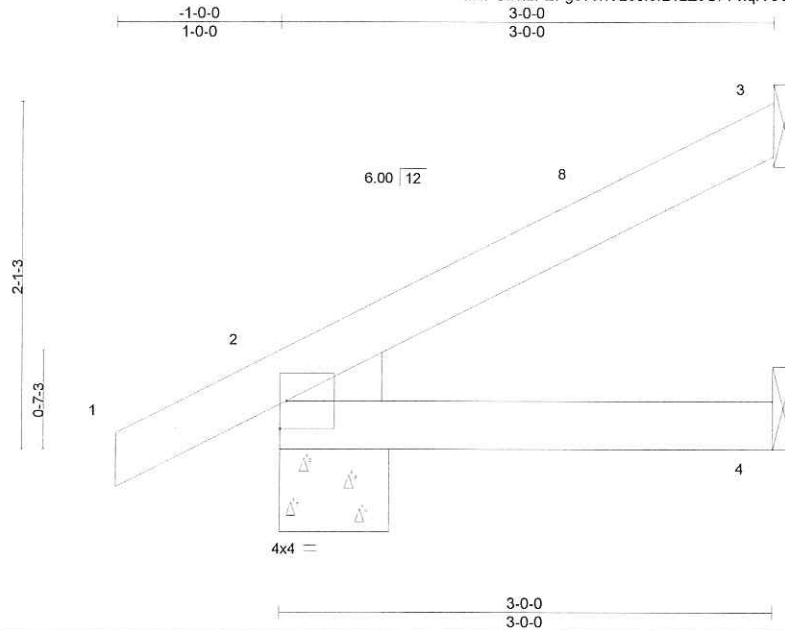


6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss CJ03	Truss Type Jack-Open	Qty 4	Ply 1	STEVE SMITH - NEWTON	T25172982
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:06 2021 Page 1
ID:PCDxLFEFGc78hVLoJl8lLzZ5Cf-PxqfY0GY8dKSCS44ZeQWm8nPlu_Lyalf7MPJyryjwEB



Scale = 1:13.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.08	Vert(LL)	0.01	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: 12 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.

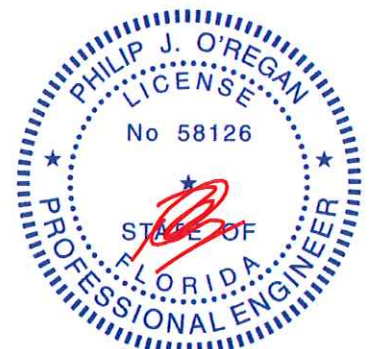
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=65(LC 12)
Max Uplift 3=-40(LC 12), 2=-36(LC 12), 4=-4(LC 12)
Max Grav 3=64(LC 1), 2=172(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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.



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

August 27, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172983
2918720	CJ05	Jack-Open	4	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1
ID:PCDxLFEFgc78hVLoJl8L1zZ5Cf-17N1mMHAvxSJpbfG7LxJLKXnHHmh1_oM08tUlyjwEA

-1-0-0 5-0-0
1-0-0 5-0-0

Scale = 1:19.2

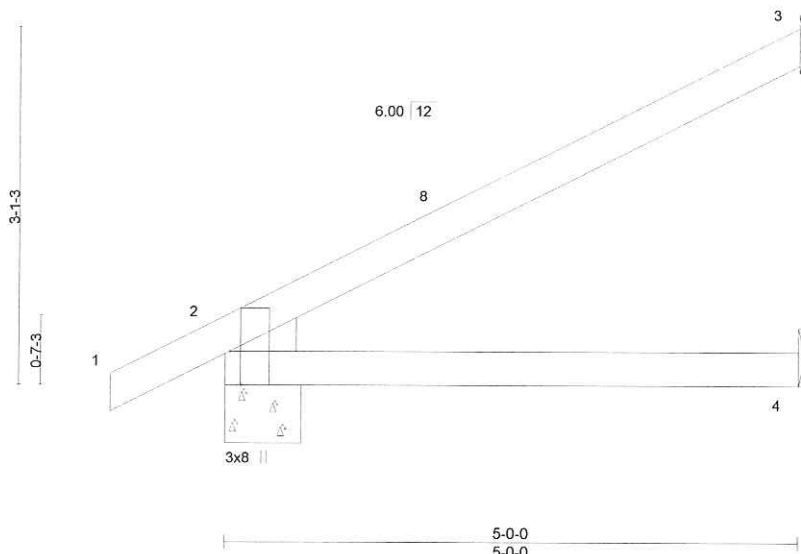


Plate Offsets (X,Y)-- [2:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.29	Vert(LL) 0.04	0.04	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.26	Vert(CT) -0.06	-0.06	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP						Weight: 18 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.

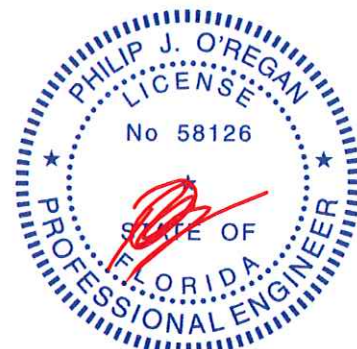
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
Max Horz 2=100(LC 12)
Max Uplift 3=-70(LC 12), 2=-46(LC 12), 4=-4(LC 12)
Max Grav 3=115(LC 1), 2=242(LC 1), 4=89(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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.



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

August 27, 2021

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



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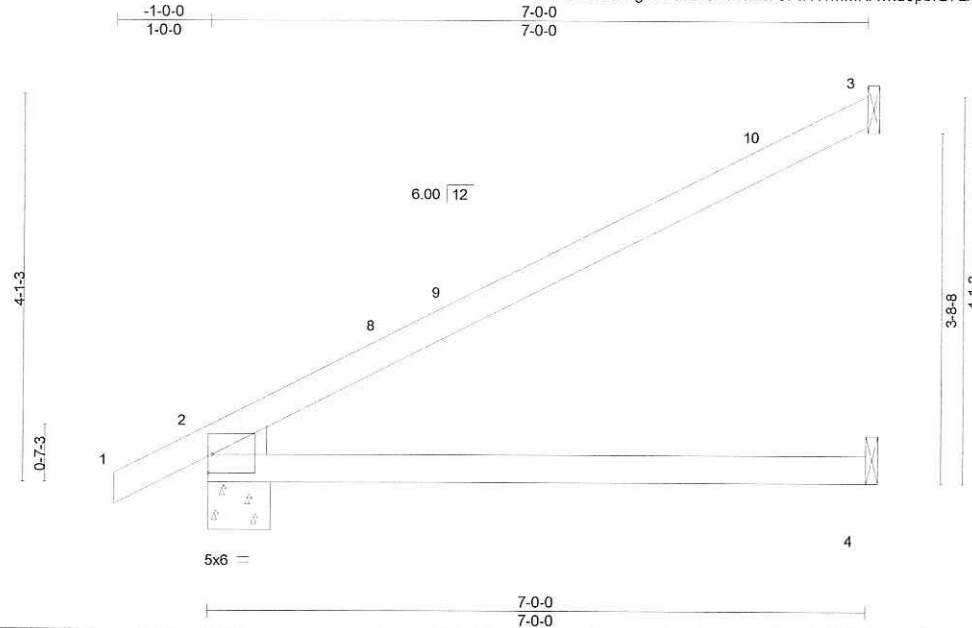
Job 2918720	Truss EJ01	Truss Type Jack-Partial	Qty 24	Ply 1	STEVE SMITH - NEWTON	T25172984
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Builders FirstSource (Lake City, FL),

Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:07 2021 Page 1

ID:PCDxLFEFGc78hVLoJl8fL1zZ5Cf17N1mMHAvxSJpbfG7LxJLKSNHDqh1_oM08tUlyjwEA



Scale = 1:23.4

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.64	Vert(LL)	0.13	4-7	>660	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.23	4-7	>369	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: 25 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.

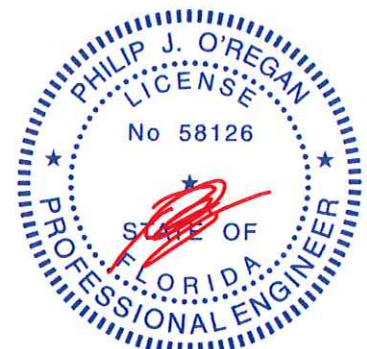
REACTIONS.

(size) 3=Mechanical, 2=0-8-0, 4=Mechanical
 Max Horz 2=129(LC 12)
 Max Uplift 3=-88(LC 12), 2=-59(LC 12), 4=-3(LC 12)
 Max Grav 3=165(LC 1), 2=315(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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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.



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

August 27,2021

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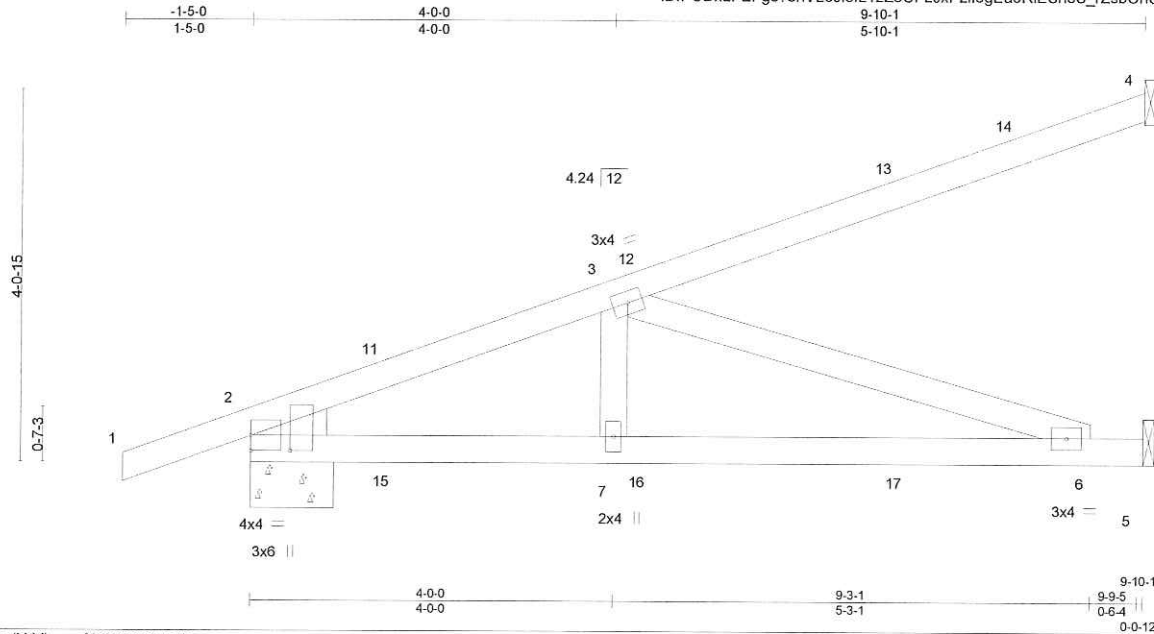


6904 Parke East Blvd.
 Tampa, FL 36610

Job 2918720	Truss HJ10	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON	T25172985
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 1
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Scale = 1:24.3

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.79	Vert(LL) 0.09 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Vert(CT) -0.19 6-7 >613 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
				Weight: 44 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical
Max Horz 2=137(LC 4)
Max Uplift 4=-90(LC 4), 2=-175(LC 4), 5=-96(LC 8)
Max Grav 4=170(LC 1), 2=488(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-803/255
BOT CHORD 2-7=-331/738, 6-7=-331/738
WEBS 3-7=-6/285, 3-6=-776/348

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) 4, 5 except (jt=lb) 2=175.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 53 lb down and 9 lb up at 1-6-1, 53 lb down and 9 lb up at 1-6-1, 23 lb down and 43 lb up at 4-4-0, 23 lb down and 43 lb up at 4-4-0, and 44 lb down and 81 lb up at 7-1-15, and 44 lb down and 81 lb up at 7-1-15 on top chord, and 5 lb down and 3 lb up at 1-6-1, 5 lb down and 3 lb up at 1-6-1, 20 lb down and 13 lb up at 4-4-0, 20 lb down and 13 lb up at 4-4-0, and 39 lb down and 20 lb up at 7-1-15, and 39 lb down and 20 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: 1-4=-54, 5-8=-20



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Date:

August 27, 2021

Continued on page 2

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6904 Parke East Blvd.
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Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON
2918720	HJ10	Diagonal Hip Girder	2	1	T25172985

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:08 2021 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-2(F=-1, B=-1) 13=-77(F=-39, B=-39) 15=6(F=3, B=3) 16=-17(F=-8, B=-8) 17=-68(F=-34, B=-34)

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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	STEVE SMITH - NEWTON	T25172986
2918720	T01	Half Hip Girder	2	1	Job Reference (optional)	

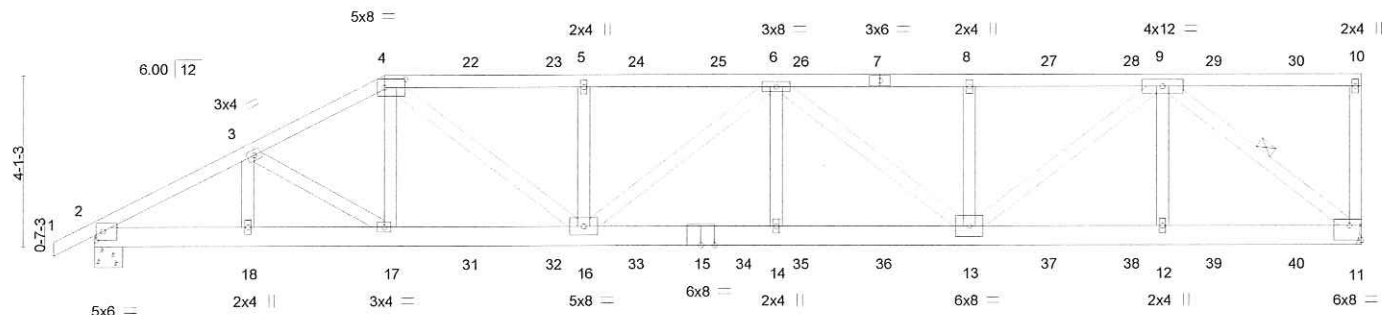
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:PCDxLFEFgc78hVLoJl8fL1zZ5Cf-Hi390OK2Csqth3OroTUTw_yx8V7FuAfF2zNX5cyjwE7

-1-0-0	3-8-4	7-0-0	11-9-14	16-5-15	21-2-1	25-10-2	30-8-0
1-0-0	3-8-4	3-3-12	4-9-14	4-8-2	4-8-2	4-8-2	4-9-14

Scale = 1:53.3



3-8-4	7-0-0	11-9-14	16-5-15	21-2-1	25-10-2	30-8-0
3-8-4	3-3-12	4-9-14	4-8-2	4-8-2	4-8-2	4-9-14

Plate Offsets (X,Y)-- [2:0-2-0,0-2-8], [4:0-6-0,0-2-8], [11:Edge,0-4-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.23 14-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.44 14-16	>841	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.84	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 199 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-7: 2x4 SP M 31
BOT CHORD 2x6 SP M 26 *Except*
11-15: 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-12 oc bracing.
WEBS 1 Row at midpt 9-11

REACTIONS.

(size) 11=Mechanical, 2=0-8-0
Max Horz 2=136(LC 8)
Max Uplift 11=831(LC 5), 2=733(LC 8)
Max Grav 11=2462(LC 1), 2=2267(LC 1)

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

TOP CHORD 2-3=-4010/1305, 3-4=-4182/1405, 4-5=-4939/1670, 5-6=-4939/1670, 6-8=-4411/1489, 8-9=-4411/1489
BOT CHORD 2-18=-1242/3532, 17-18=-1242/3532, 16-17=-1286/3737, 14-16=-1743/5171, 13-14=-1743/5171, 12-13=-928/2743, 11-12=-928/2743
WEBS 3-18=-322/154, 3-17=-235/344, 4-17=-129/585, 4-16=-550/1570, 5-16=-547/287, 6-16=-338/125, 6-14=-5/398, 6-13=-971/369, 8-13=-492/256, 9-13=-717/2133, 9-12=0/422, 9-11=-3464/1169

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=831, 2=733.



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August 27, 2021

Continued on page 2

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6904 Parke East Blvd.
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Job 2918720	Truss T01	Truss Type Half Hip Girder	Qty 2	Ply 1	STEVE SMITH - NEWTON T25172986
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:10 2021 Page 2
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NOTES-

- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 7-0-0, 111 lb down and 92 lb up at 9-0-12, 111 lb down and 92 lb up at 11-0-12, 111 lb down and 92 lb up at 13-0-12, 111 lb down and 92 lb up at 15-0-12, 111 lb down and 92 lb up at 17-0-12, 111 lb down and 87 lb up at 19-0-12, 111 lb down and 92 lb up at 21-0-12, 111 lb down and 92 lb up at 23-0-12, 111 lb down and 92 lb up at 25-0-12, and 111 lb down and 92 lb up at 27-0-12, and 111 lb down and 92 lb up at 29-0-12 on top chord, and 339 lb down and 148 lb up at 7-0-0, 86 lb down and 23 lb up at 9-0-12, 86 lb down and 23 lb up at 11-0-12, 86 lb down and 23 lb up at 13-0-12, 86 lb down and 23 lb up at 15-0-12, 86 lb down and 23 lb up at 17-0-12, 86 lb down and 23 lb up at 19-0-12, 86 lb down and 23 lb up at 21-0-12, 86 lb down and 23 lb up at 23-0-12, 86 lb down and 23 lb up at 25-0-12, and 86 lb down and 23 lb up at 27-0-12, and 86 lb down and 23 lb up at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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: 1-4=-54, 4-10=-54, 11-19=-20

Concentrated Loads (lb)

Vert: 4=-111(B) 7=-111(B) 17=-339(B) 8=-111(B) 13=-68(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-111(B) 27=-111(B) 28=-111(B) 29=-111(B) 30=-111(B) 31=-68(B) 32=-68(B) 33=-68(B) 34=-68(B) 35=-68(B) 36=-68(B) 37=-68(B) 38=-68(B) 39=-68(B) 40=-68(B)



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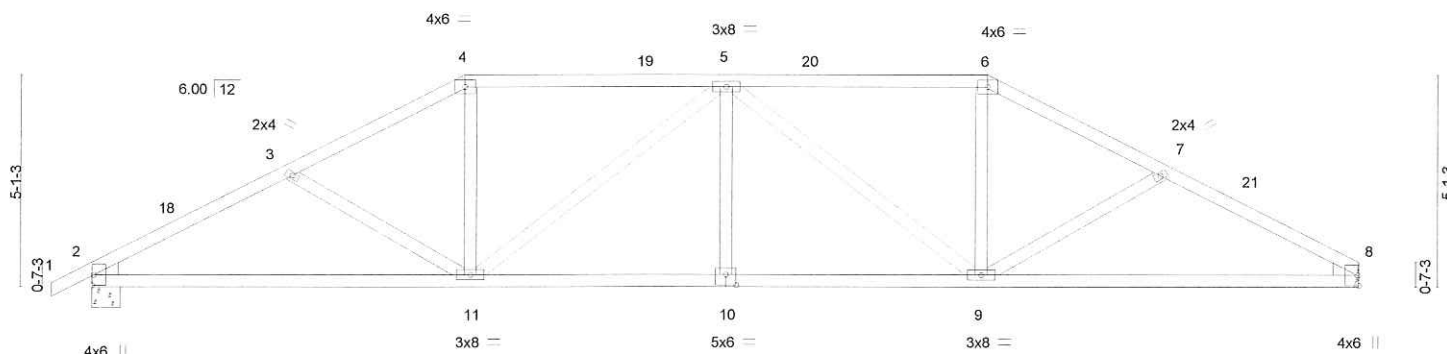
Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172987
2918720	T02	Hip	2	1		

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:11 2021 Page 1
ID:PCDXLFEFGc?8hVLoJl8fL1zZ5CF-ludYckKhZ9yKlDy1MB?ITBUALvXJdh_OGd64d3yJwE6

-1-0-0	4-9-12	9-0-0	15-4-0	21-8-0	25-10-4	30-8-0
1-0-0	4-9-12	4-2-4	6-4-0	6-4-0	4-2-4	4-9-12

Scale = 1:53.2



9-0-0	15-4-0	21-8-0	30-8-0
9-0-0	6-4-0	6-4-0	9-0-0

Plate Offsets (X,Y)-- [10:0-3-0,0-3-0]

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 0.45	Vert(LL)	-0.13	10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.25	9-17	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 155 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

BOT CHORD

Structural wood sheathing directly applied or 3-10-9 oc purlins.

Rigid ceiling directly applied or 9-3-0 oc bracing.

REACTIONS.

(size) 2=0-8-0, 8=Mechanical

Max Horz 2=82(LC 16)

Max Uplift 2=-266(LC 12), 8=-244(LC 13)

Max Grav 2=1190(LC 1), 8=1134(LC 1)

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

TOP CHORD 2-3=-1955/439, 3-4=-1753/379, 4-5=-1538/371, 5-6=-1541/372, 6-7=-1756/382, 7-8=-1962/442

BOT CHORD 2-11=-403/1689, 10-11=-343/1862, 9-10=-343/1862, 8-9=-339/1697

WEBS 4-11=-71/501, 5-11=-499/164, 5-9=-497/163, 6-9=-71/502

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 9-0-0, Exterior(2R) 9-0-0 to 13-4-1, Interior(1) 13-4-1 to 21-8-0, Exterior(2R) 21-8-0 to 26-0-1, Interior(1) 26-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=266, 8=244.



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Date:

August 27,2021

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Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172988
2918720	T03	Hip	2	1	Job Reference (optional)	

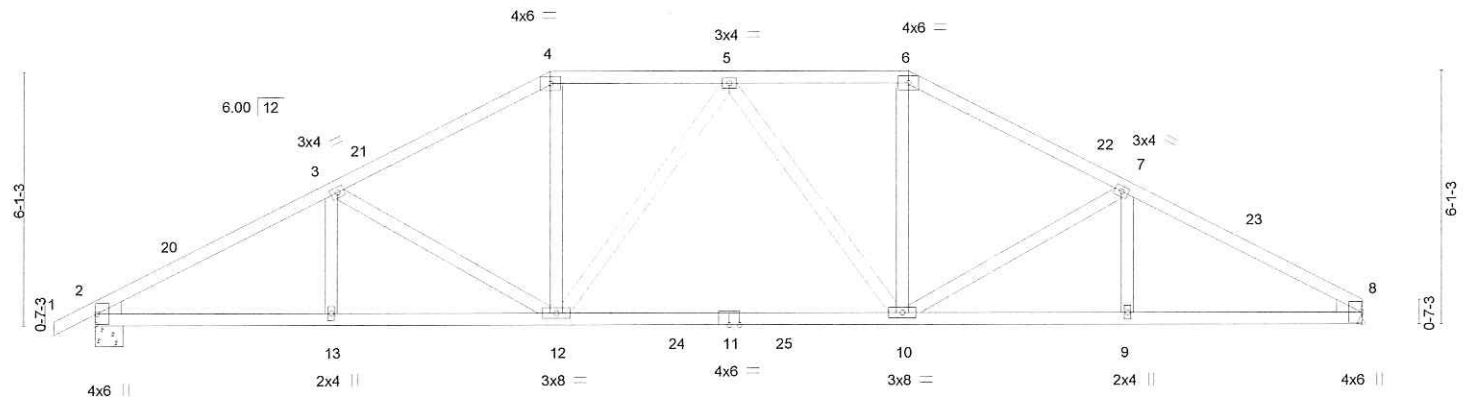
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-1-0-0	5-8-7	11-0-0	15-4-0	19-8-0	24-11-9	30-8-0
1-0-0	5-8-7	5-3-9	4-4-0	4-4-0	5-3-9	5-8-7

Scale = 1:53.2



5-8-7		11-0-0		19-8-0		24-11-9		30-8-0	
5-8-7		5-3-9		8-8-0		5-3-9		5-8-7	
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 0.41	Vert(LL)	-0.23 10-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.40 10-12	>914	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.09 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 162 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 3-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

REACTIONS.

(size) 2=0-8-0, 8=Mechanical
Max Horz 2=97(LC 16)
Max Uplift 2=263(LC 12), 8=242(LC 13)
Max Grav 2=1275(LC 2), 8=1230(LC 2)

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

TOP CHORD 2-3=-2113/416, 3-4=-1781/371, 4-5=-1558/364, 5-6=-1559/362, 6-7=-1782/372,
7-8=-2119/420
BOT CHORD 2-13=-393/1836, 12-13=-393/1836, 10-12=-238/1628, 9-10=-315/1842, 8-9=-315/1842
WEBS 3-12=-354/177, 4-12=-78/567, 5-12=-257/114, 5-10=-256/113, 6-10=-77/568,
7-10=-360/180

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 11-0-0, Exterior(2R) 11-0-0 to 15-4-0, Interior(1) 15-4-0 to 19-8-0, Exterior(2R) 19-8-0 to 24-0-1, Interior(1) 24-0-1 to 30-8-0 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.
- 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) 2=263, 8=242.



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August 27, 2021



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172989
2918720	T04	Hip	2	1	Job Reference (optional)	

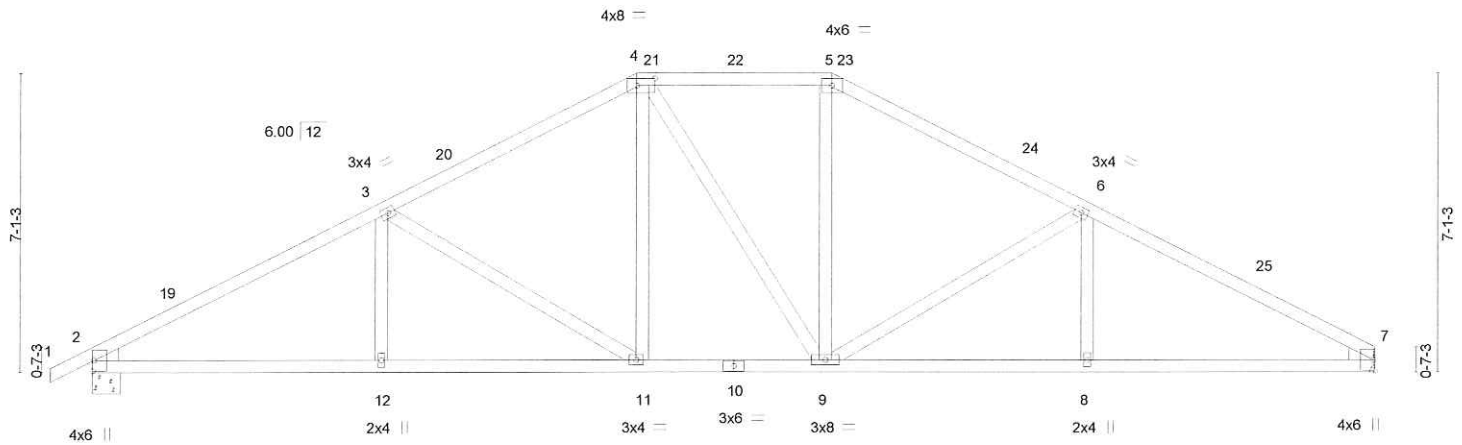
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:13 2021 Page 1

ID:PCDXLFEGc?8hVLoJl8fL1zZ5CF-iHlI0PMxVnDSYw6QUc2AYcaWtiF05ddhxbBixyJwE4

1-0-0	6-10-10	13-0-0	17-8-0	23-9-6	30-8-0
1-0-0	6-10-10	6-1-6	4-8-0	6-1-6	6-10-10

Scale = 1:52.6



6-10-10	13-0-0	17-8-0	23-9-6	30-8-0
6-10-10	6-1-6	4-8-0	6-1-6	6-10-10

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

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 0.44	Vert(LL)	-0.10 11-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.59	Vert(CT)	-0.21 11-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.08 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 161 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 3-10-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.

REACTIONS.

(size) 2=0-8-0, 7=Mechanical
Max Horz 2=112(LC 16)
Max Uplift 2=260(LC 12), 7=239(LC 13)
Max Grav 2=1190(LC 1), 7=1134(LC 1)

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

TOP CHORD 2-3=-1946/402, 3-4=-1489/362, 4-5=-1267/358, 5-6=-1491/363, 6-7=-1952/404
BOT CHORD 2-12=-384/1670, 11-12=-384/1670, 9-11=-200/1267, 8-9=-300/1676, 7-8=-300/1676
WEBS 3-11=-493/217, 4-11=-78/388, 5-9=-69/389, 6-9=-499/220

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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 13-0-0, Exterior(2R) 13-0-0 to 17-4-1, Interior(1) 17-4-1 to 17-8-0, Exterior(2R) 17-8-0 to 22-0-1, Interior(1) 22-0-1 to 30-8-0 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.
- 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=260, 7=239.



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

August 27, 2021

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

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



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172990
2918720	T05	Hip	2	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:14 2021 Page 1

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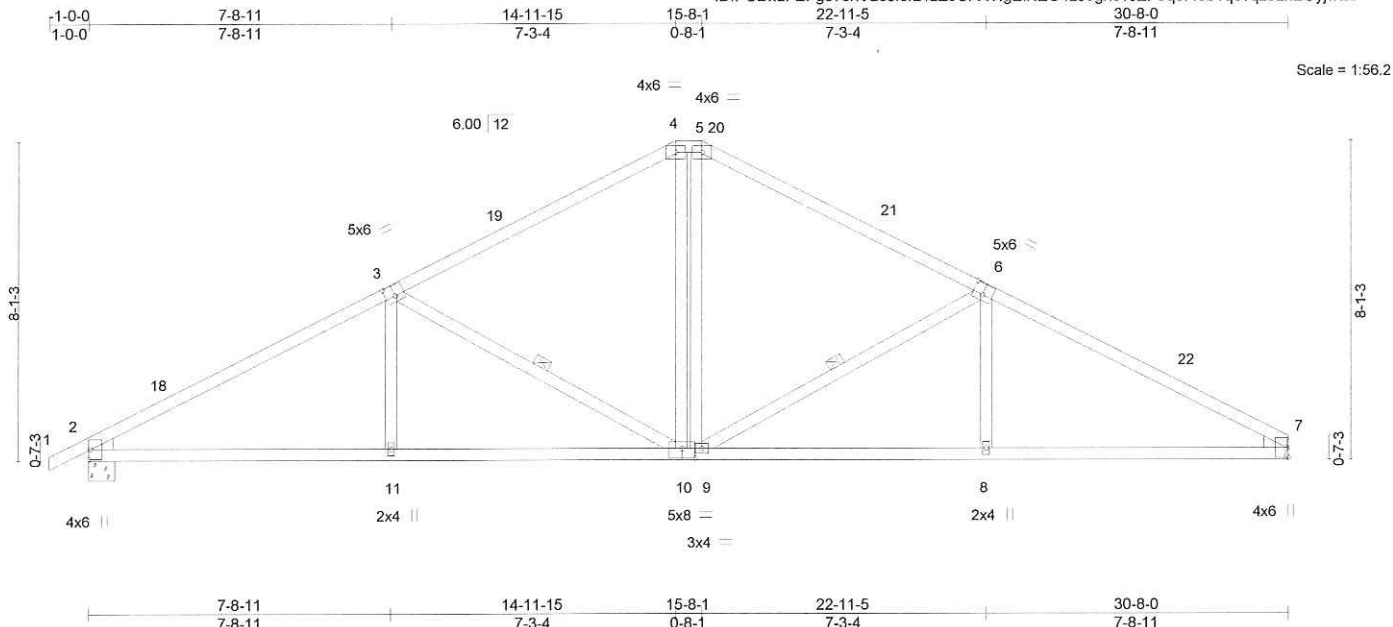


Plate Offsets (X,Y)-- [3:0-3-0,0-3-4], [6:0-3-0,0-3-4], [10:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.54	Vert(LL)	-0.10 10-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.22 10-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.24	Horz(CT)	0.07 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 158 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

BOT CHORD

WEBS

Structural wood sheathing directly applied or 3-10-12 oc purlins.

Rigid ceiling directly applied or 9-4-14 oc bracing.

1 Row at midpt

3-10, 6-9

REACTIONS.

(size) 2=0-8-0, 7=Mechanical

Max Horz 2=126(LC 12)

Max Uplift 2=-257(LC 12), 7=-235(LC 13)

Max Grav 2=1190(LC 1), 7=1134(LC 1)

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

TOP CHORD 2-3=-1927/390, 3-4=-1362/327, 4-5=-1140/329, 5-6=-1364/330, 6-7=-1932/393

BOT CHORD 2-11=-381/1648, 10-11=-382/1647, 9-10=-150/1140, 8-9=-272/1652, 7-8=-272/1653

WEBS 3-11=0/289, 3-10=-621/266, 4-10=-127/433, 5-9=-127/433, 6-9=-626/268, 6-8=0/289

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 14-11-15, Exterior(2E) 14-11-15 to 15-8-1, Exterior(2R) 15-8-1 to 20-0-1, Interior(1) 20-0-1 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 7=235.



Phillip J. O'Regan PE No.58126

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Date:

August 27, 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	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172991
2918720	T06	Common	2	1	Job Reference (optional)	

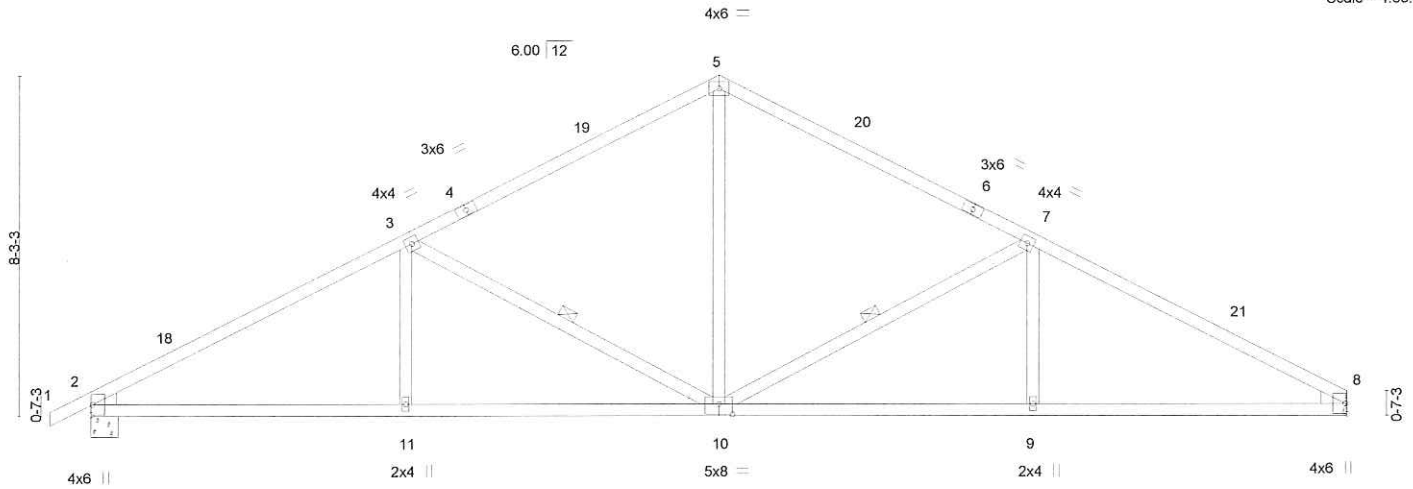
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:15 2021 Page 1

ID:PCDxLFEFGc?8hVLoJl8L1zZ5Cf-efs2R5NB1OTAnqGob14ed1foFWwMZaa_BF4ImqyiwE2

-1-0-0	7-8-2	15-4-0	22-11-15	30-8-0
1-0-0	7-8-2	7-7-15	7-7-15	7-8-1

Scale = 1:53.7



		7-8-2		15-4-0		22-11-15		30-8-0	
		7-8-2		7-7-15		7-7-15		7-8-1	
Plate Offsets (X,Y)-- [3:0-0-0,0-0-0], [10:0-4-0,0-3-0]									
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 0.64		Vert(LL) -0.10 10-11 >999 240		MT20 244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.66		Vert(CT) -0.23 10-11 >999 180			
BCLL	0.0 *	Rep Stress Incr YES		WB 0.28		Horz(CT) 0.08 8 n/a n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 148 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

BOT CHORD

WEBS

Structural wood sheathing directly applied or 3-9-1 oc purlins.

Rigid ceiling directly applied or 9-4-10 oc bracing.

1 Row at midpt 7-10, 3-10

REACTIONS.

(size) 2=0-8-0, 8=Mechanical

Max Horz 2=129(LC 12)

Max Uplift 2=-256(LC 12), 8=-235(LC 13)

Max Grav 2=1190(LC 1), 8=1134(LC 1)

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

TOP CHORD 2-3=-1932/391, 3-5=-1356/335, 5-7=-1357/337, 7-8=-1937/395

BOT CHORD 2-11=-386/1654, 10-11=-386/1654, 9-10=-281/1660, 8-9=-281/1660

WEBS 5-10=-126/739, 7-10=-639/274, 7-9=0/289, 3-10=-633/272, 3-11=0/288

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) 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) -1-0-0 to 2-0-13, Interior(1) 2-0-13 to 15-4-0, Exterior(2R) 15-4-0 to 18-4-13, Interior(1) 18-4-13 to 30-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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 (jl=lb) 2=256, 8=235.



Phillip J. O'Regan PE No.58126
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6904 Parke East Blvd. Tampa FL 33610
Date: August 27, 2021

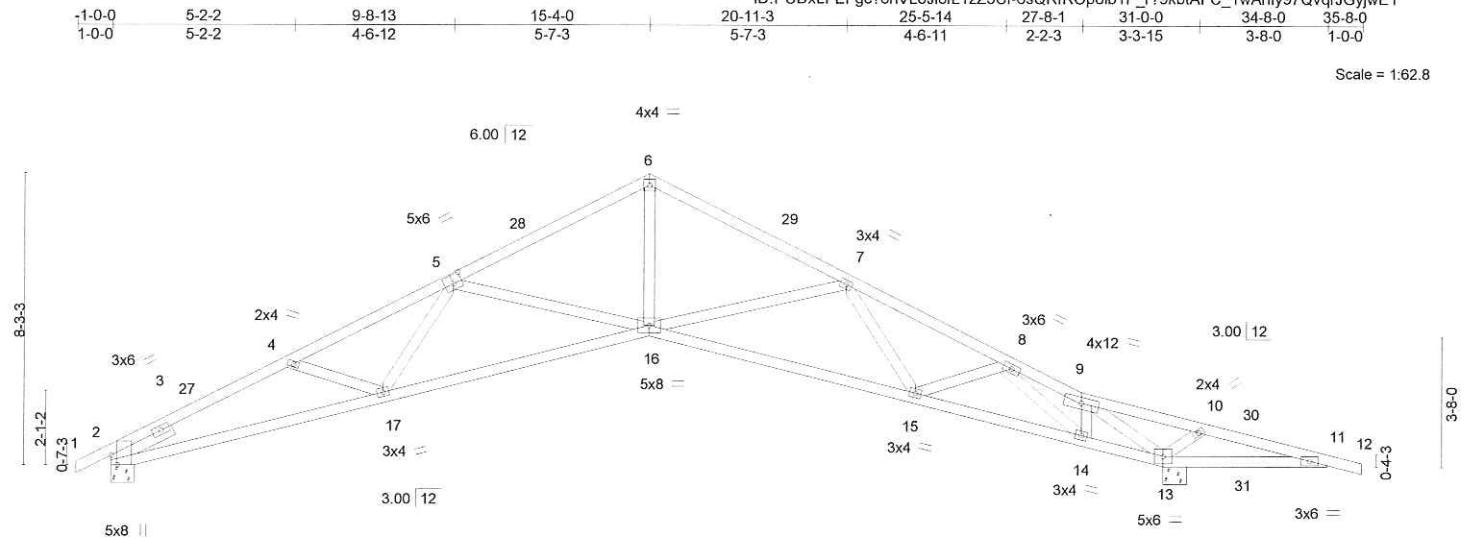
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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7-8-1315-4-022-11-227-8-130-0-030-8-034-8-0 7-8-137-7-37-7-24-8-152-3-150-8-04-0-0 Plate Offsets (X,Y)-- [2:0-3-4,Edge], [5:0-3-0,0-3-0]																			
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	0.58	Vert(LL)		-0.28 16-17		>999		240		MT20		244/190	
TCDL	7.0	Lumber DOL		1.25		BC	0.98	Vert(CT)		-0.58 16-17		>619		180					
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.58	Horz(CT)		0.33 13		n/a		n/a					
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MS										Weight: 170 lb		FT = 20%	

LUMBER-

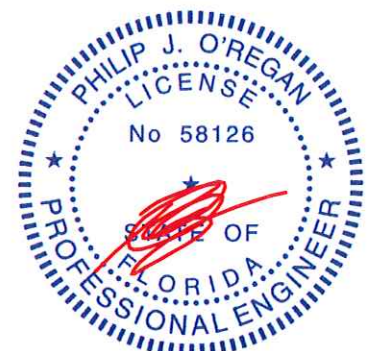
TOP CHORD	2x4 SP No.2 *Except* 1-5: 2x4 SP M 31
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-11-8

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-8-0, 13=0-8-0
Max Horz 2=123(LC 16)
Max Uplift 2=-252(LC 12), 13=-350(LC 13)
Max Grav 2=1141(LC 1), 13=1532(LC 1)

FORCES. (lb) - Max. Cor./Max. Ten. - All forces 250 (lb) or less except when shown
TOP CHORD 2-4=-2676/624, 4-5=-2662/588, 5-6=-2087/434, 6-7=-2082/423, 7-8=-2431/391,
8-9=-1248/235, 9-10=-838/882, 10-11=-710/648
BOT CHORD 2-17=-607/2339, 16-17=-529/2443, 15-16=-307/2245, 14-15=-276/1923, 13-14=-174/1242,
11-13=-597/703
WEBS 5-16=-615/292, 6-16=-252/1524, 7-16=-431/249, 8-15=-145/306, 8-14=-1192/619,
9-14=-302/684, 9-13=-2447/602, 10-13=-320/219

- NOTES:-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCFL=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) -1-0-0 to 2-5-10, Interior(1) 2-5-10 to 15-4-0, Exterior(2R) 15-4-0 to 18-9-10, Interior(1) 18-9-10 to 35-8-0 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 13=350.



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

August 27, 2021

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIT-743 (REV. 3/19/2020) BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	STEVE SMITH - NEWTON	T25172993
2918720	T08	Common	1	1	Job Reference (optional)	

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

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:17 2021 Page 1

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Scale = 1:37.1

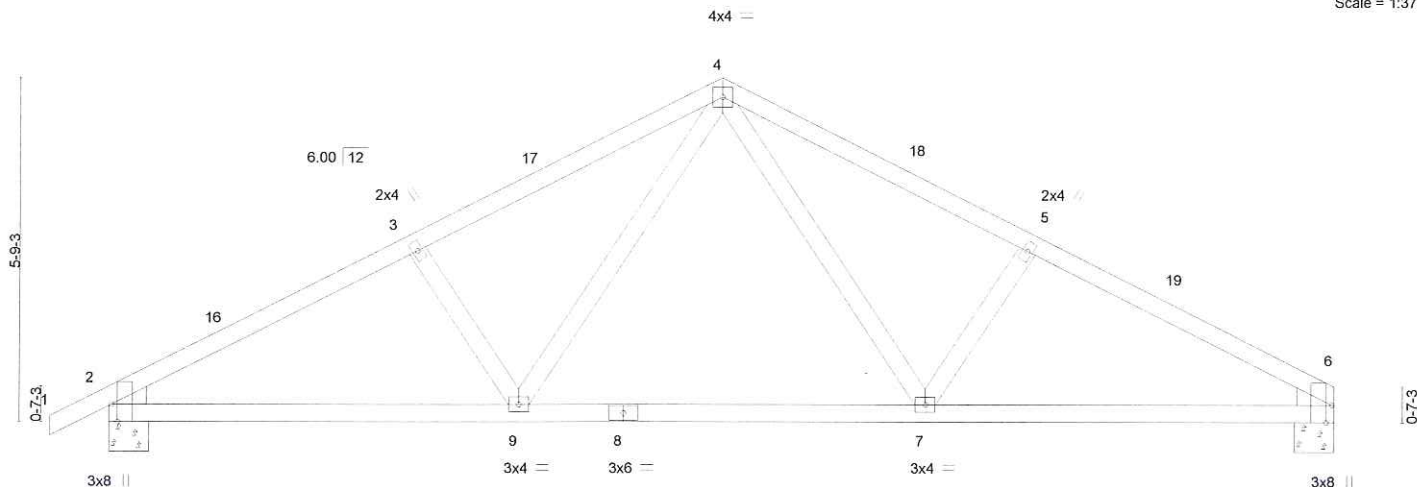


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [6:0-3-8,Edge]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.28	Vert(LL)	-0.06	7-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.13	7-9	>999	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 97 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 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 10-0-0 oc bracing.

REACTIONS.

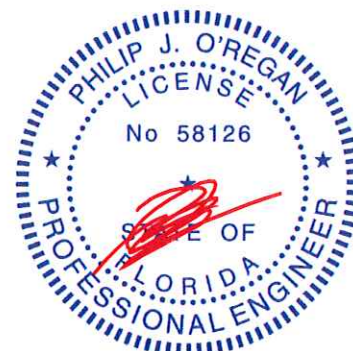
(size) 2=0-8-0, 6=0-8-0
Max Horz 2=92(LC 12)
Max Uplift 2=-179(LC 12), 6=-158(LC 13)
Max Grav 2=820(LC 1), 6=763(LC 1)

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

TOP CHORD 2-3=-1238/343, 3-4=-1106/347, 4-5=-1110/354, 5-6=-1242/349
BOT CHORD 2-9=-260/1057, 7-9=-122/725, 6-7=-256/1063
WEBS 4-7=-122/414, 5-7=-257/168, 4-9=-120/407, 3-9=-253/167

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 20-8-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=179, 6=158.



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Date:

August 27,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T08G	Truss Type Common Supported Gable	Qty 1	Ply 1	STEVE SMITH - NEWTON	T25172994
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:18 2021 Page 1
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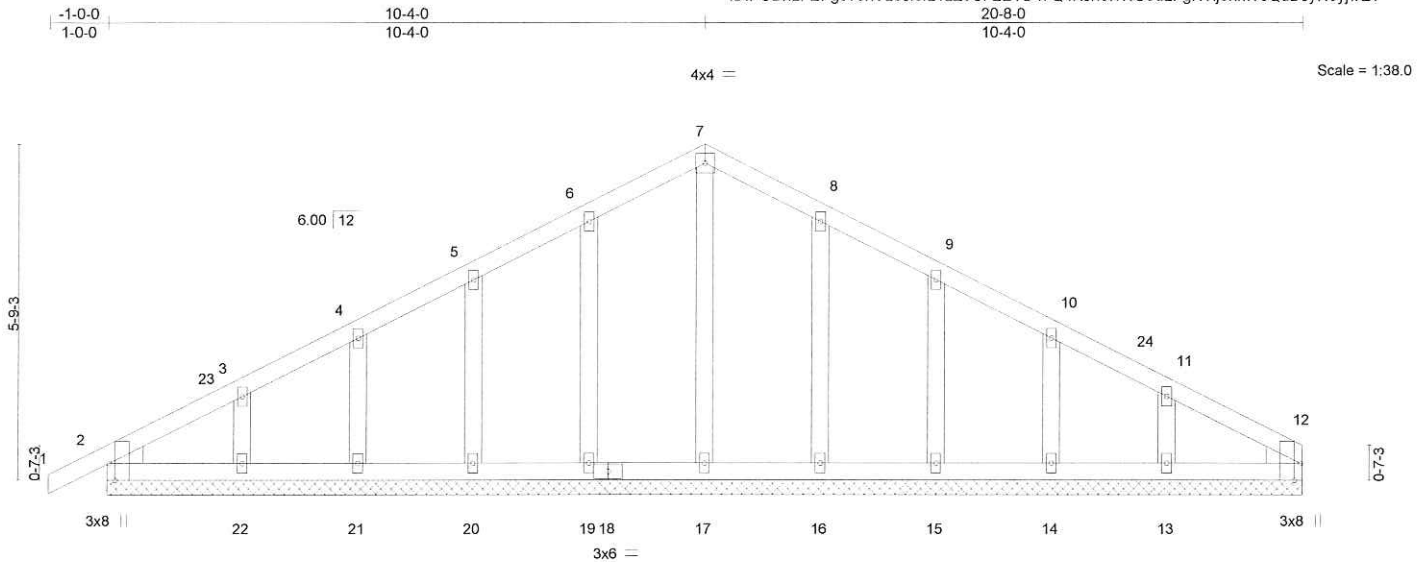


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-3-8,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05
TCDL 7.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.00 1 n/r 120
			Vert(CT) 0.00 1 n/r 120
			Horz(CT) 0.00 12 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 109 lb FT = 20%

LUMBER-

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

All bearings 20-8-0.
(lb) - Max Horz 2=87(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13
Max Grav All reactions 250 lb or less at joint(s) 2, 17, 19, 20, 21, 22, 16, 15, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; 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) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-4-0, Corner(3R) 10-4-0 to 13-4-0, Exterior(2N) 13-4-0 to 20-8-0 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 16, 15, 14, 13.



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

August 27,2021



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6904 Parke East Blvd.
Tampa, FL 33610

Job 2918720	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON	T25172995
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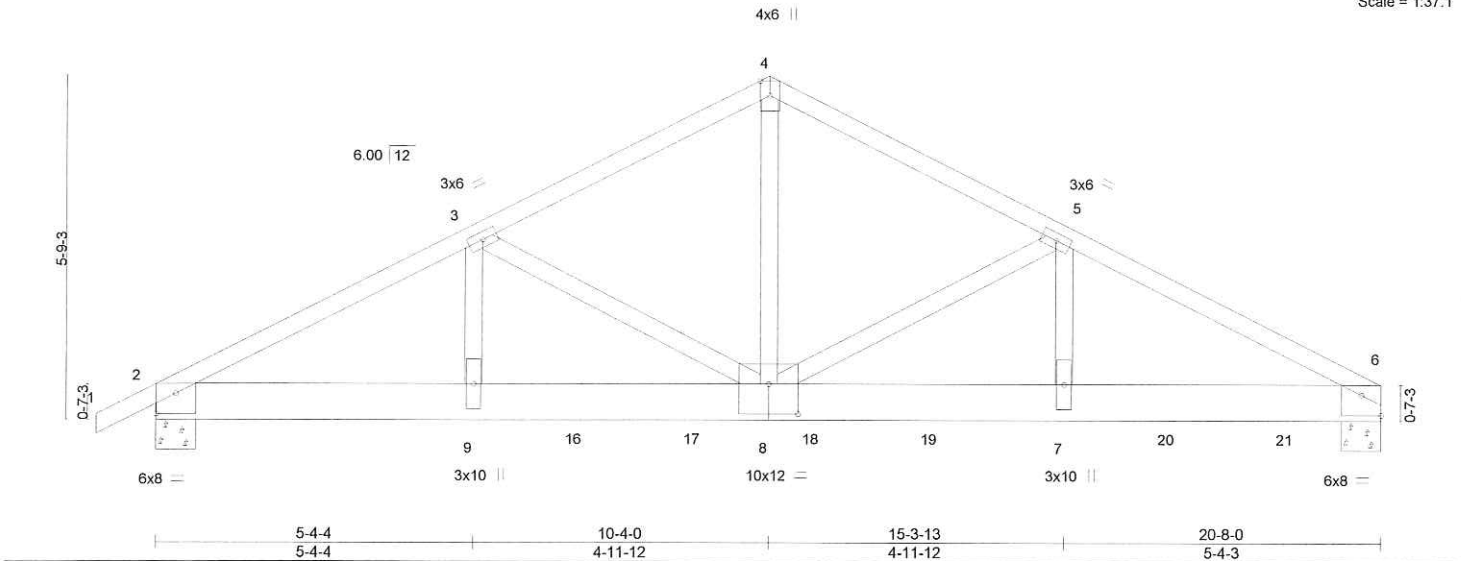
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1

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1-0-0 5-4-4 10-4-0 15-3-13 20-8-0
1-0-0 5-4-4 4-11-12 4-11-12 5-4-3

Scale = 1:37.1



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 0.61	Vert(LL)	-0.14	8-9	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.27	8-9	>933		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.71	Horz(CT)	0.04	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 260 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
4-8: 2x4 SP No.2	

REACTIONS.	(size) 6=0-8-0, 2=0-8-0
	Max Horz 2=92(LC 8)
	Max Uplift 6=-1440(LC 9), 2=-1199(LC 8)
	Max Grav 6=6159(LC 1), 2=4549(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-9161/2430, 3-4=-7442/1891, 4-5=-7455/1891, 5-6=-10284/2435
BOT CHORD	2-9=-2188/8128, 8-9=-2188/8128, 7-8=-2120/9148, 6-7=-2120/9148
WEBS	4-8=-1582/6323, 5-8=-2928/675, 5-7=-449/2451, 3-8=-1755/666, 3-9=-456/1412

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
Bottom chords connected as follows: 2x8 - 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.
 - 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) 6=1440, 2=1199.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, 1114 lb down and 259 lb up at 13-0-12, 1114 lb down and 255 lb up at 15-0-12, and 1114 lb down and 255 lb up at 17-0-12, and 1114 lb down and 255 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Date:

August 27,2021

Job 2918720	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON T25172995
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 7=-1114(B) 16=-2442(B) 17=-1114(B) 18=-1114(B) 19=-1114(B) 20=-1114(B) 21=-1114(B)

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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 2918720	Truss T10	Truss Type Common	Qty 1	Ply 1	STEVE SMITH - NEWTON	T25172996
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8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:20 2021 Page 1
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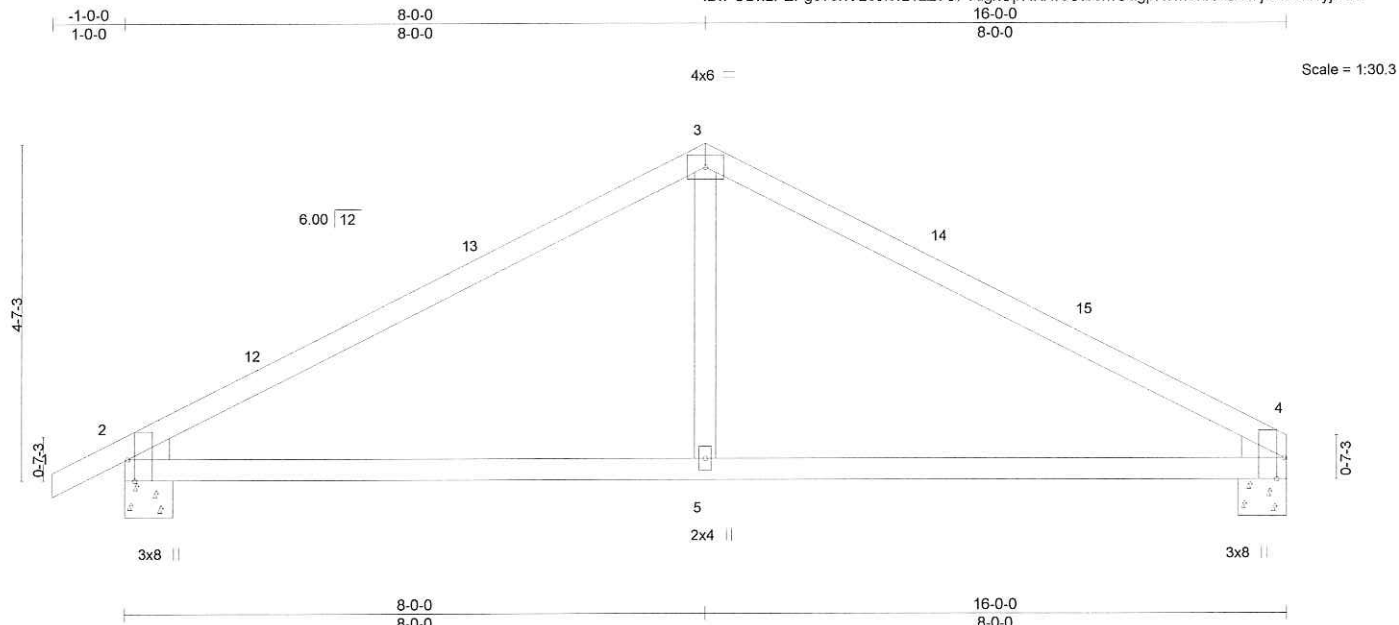


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [4:0-3-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.72	Vert(LL) -0.13	5-11	>999	240		MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.60	Vert(CT) -0.21	5-11	>928	180			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.03	2	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS							

Weight: 60 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

BOT CHORD

Structural wood sheathing directly applied or 4-10-10 oc purlins.

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

REACTIONS.

(size) 2=0-8-0, 4=0-8-0

Max Horz 2=74(LC 16)

Max Uplift 2=-144(LC 12), 4=-122(LC 13)

Max Grav 2=648(LC 1), 4=590(LC 1)

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

TOP CHORD 2-3=-799/275, 3-4=-798/279

BOT CHORD 2-5=-154/636, 4-5=-154/636

WEBS 3-5=-5/350

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) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 4=122.



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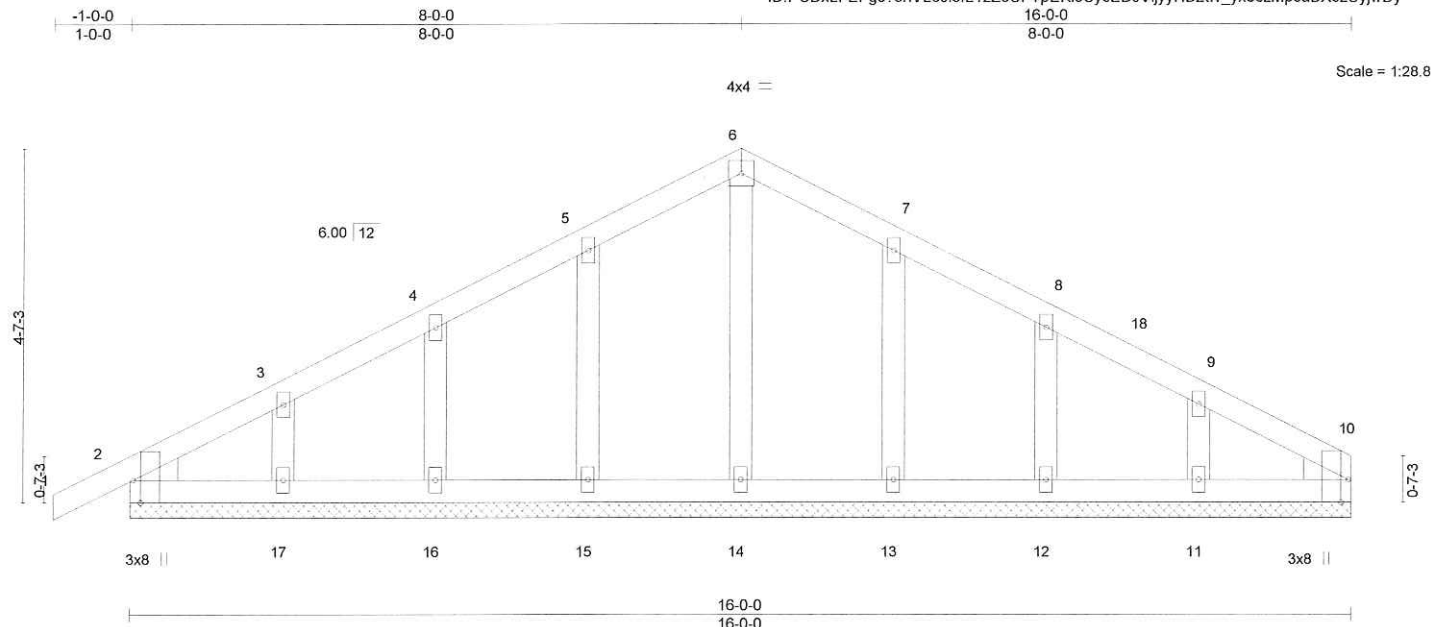


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [10:0-3-8,Edge]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl		L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.05	Vert(LL)	-0.00	1	n/r	120		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	1	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S								Weight: 78 lb	FT = 20%

LUMBER-

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

All bearings 16-0-0.

(lb) - Max Horz 2=70(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 16, 17, 13, 12, 11

Max Gray All reactions 250 lb or less at joint(s) 2, 14, 15, 16, 17, 13, 12, 11, 10

FORCES.

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=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) 1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-0-0, Corner(3R) 8-0-0 to 11-0-0, Exterior(2N) 11-0-0 to 16-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 16, 17, 13, 12, 11.



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Date:

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



6904 Parke East Blvd.
Tampa, FL 36610

Job 2918720	Truss T11	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON	T25172998
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 1

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4x6 ||

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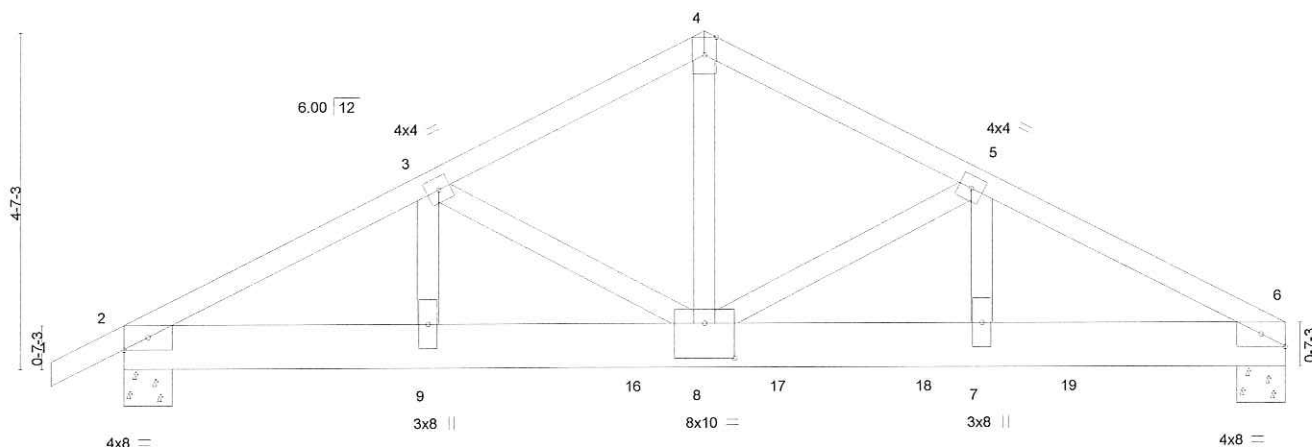


Plate Offsets (X,Y)-- [2:Edge,0-2-1], [6:Edge,0-2-1], [8:0-5-0,0-5-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	-0.14	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 201 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-8-0, 2=0-8-0
Max Horz 2=74(LC 8)
Max Uplift 6=-1235(LC 9), 2=-852(LC 8)
Max Grav 6=5047(LC 1), 2=3089(LC 1)

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

TOP CHORD 2-3=-5843/1619, 3-4=-5629/1556, 4-5=-5629/1555, 5-6=-7517/1901
BOT CHORD 2-9=-1457/5175, 8-9=-1457/5175, 7-8=-1653/6681, 6-7=-1653/6681
WEBS 4-8=-1304/4764, 5-8=-1958/445, 5-7=-292/1657

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: 2x8 - 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.
- 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) 6=1235, 2=852.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2442 lb down and 851 lb up at 7-0-12, 1114 lb down and 264 lb up at 9-0-12, 1210 lb down and 262 lb up at 11-0-12, and 1114 lb down and 259 lb up at 13-0-12, and 1114 lb down and 254 lb up at 15-0-12 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



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Date: August 27, 2021

Continued on page 2

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 2918720	Truss T11	Truss Type Common Girder	Qty 1	Ply 2	STEVE SMITH - NEWTON T25172998
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Aug 26 16:41:23 2021 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 10-13=-20

Concentrated Loads (lb)

Vert: 12=-1114(F) 16=-2442(F) 17=-1114(F) 18=-1114(F) 19=-1114(F)



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

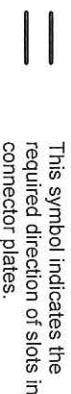
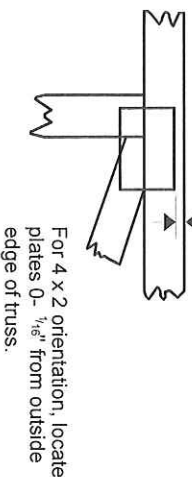
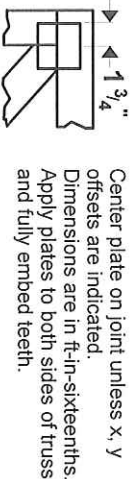
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

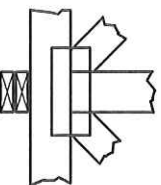
4 X 4

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

LATERAL BRACING LOCATION



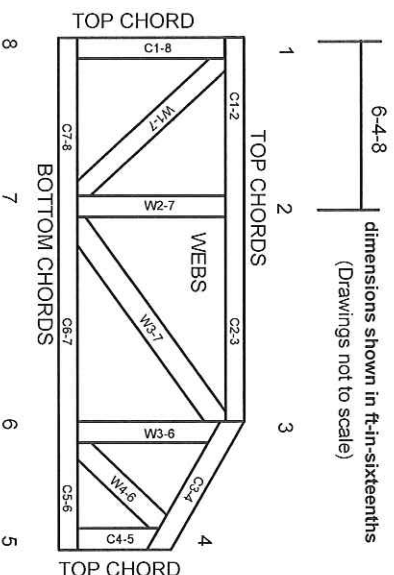
BEARING



Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

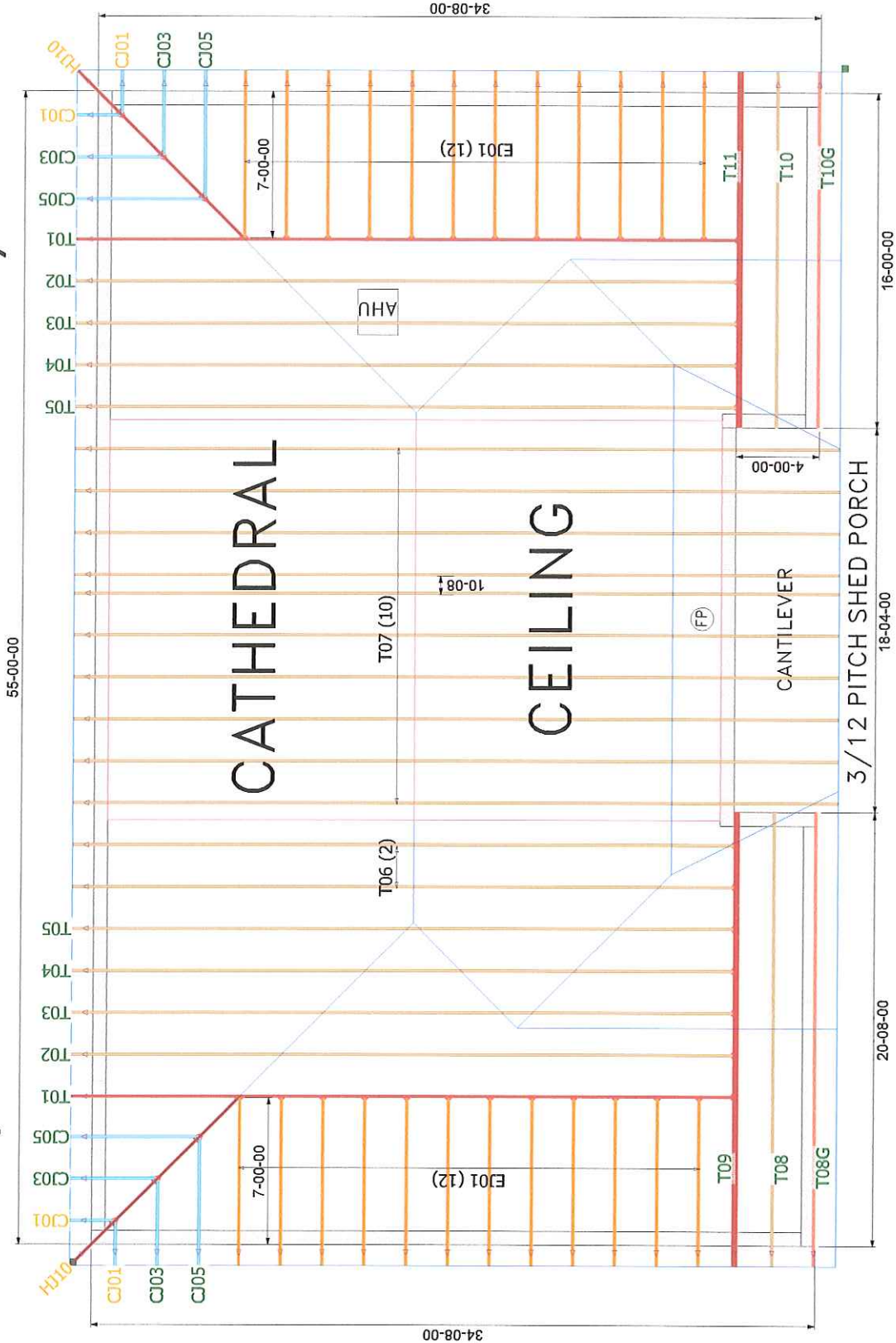


General Safety Notes

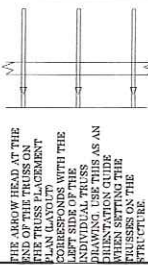
Failure to Follow Could Cause Property Damage or Personal Injury

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 1 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.

6/12 PITCH - 12" O/H



MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2



Notes:

- For ANSIP/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the responsibility of the Truss Manufacturer.
- Use Manufacturer's specifications for all truss connections unless noted otherwise.
- Truss spacing shall be 7'-0" O/C.
- All trusses are to be 12" O/H.
- Use 12" x 12" Nails in truss connections to single ply gable trusses.
- Trusses are designed to support back U.S.O.
- Dimensions are Per Truss Manufacturer.

Notes:

- No back charges will be accepted by Builders.
- Trusses are designed to support back U.S.O.
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