

RE: 3130991 - IC CONST. - MITCHELLE RES.

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

Customer Info: IC CONSTRUCTION Project Name: Mitchelle Res. Model: Custom

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

Address: TBD, TBD

Site Information:

City: Columbia Cty State: FL

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

Name: License #:

Address:

20

21 22

T27545476 T11

T27545477

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 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 32 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T27545457	EJ01	4/27/22	23	T27545479	T14	4/27/22
2 3	T27545458	EJ01G	4/27/22	24	T27545480	T15	4/27/22
3	T27545459	PB01	4/27/22	25	T27545481	<u>T</u> 15G	4/27/22
4	T27545460	PB01G	4/27/22	26	T27545482	T16	4/27/22
5	T27545461 T27545462	PB03 T01	4/27/22 4/27/22	27 28	T27545483 T27545484	T16G V01	4/27/22 4/27/22
4 5 6 7	T27545463	T01G	4/27/22	29	T27545485	V01 V02	4/27/22
	T27545464	T02	4/27/22	30	T27545486	V03	4/27/22
8 9	T27545465	T03	4/27/22	31	T27545487	V04	4/27/22
10	T27545466	T03G	4/27/22	32	T27545488	V05	4/27/22
11	T27545467	<u>T04</u>	4/27/22				
12	T27545468	T05	4/27/22				
13	T27545469	<u>T</u> 05G	4/27/22				
14	T27545470	T06	4/27/22				
15	T27545471	T07	4/27/22				
16	T27545472	T07G	4/27/22				
17	T27545473	T08	4/27/22				
18	T27545474	T09	4/27/22				
19	T27545475	T10	4/27/22				

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

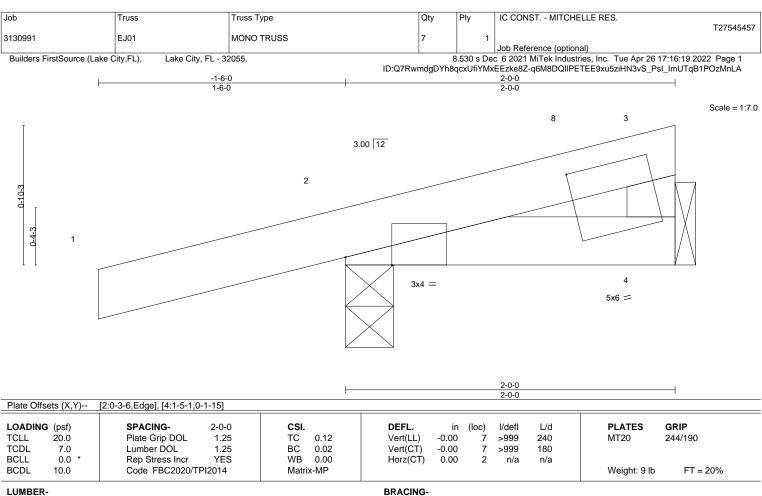
My license renewal date for the state of Florida is February 28, 2023.

**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.



6904 Parke East Blvd. Tampa FL 33610

April 27,2022



TOP CHORD

2x4 SP No.2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins,

except end verticals.

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

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

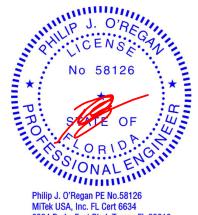
Max Horz 2=33(LC 8)

Max Uplift 2=-96(LC 8), 4=-7(LC 12) Max Grav 2=182(LC 1), 4=42(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 1-10-4 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) 2, 4.



6904 Parke East Blvd. Tampa FL 33610 Date:

April 27,2022



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES. T27545458 EJ01G 3130991 Monopitch Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:20 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-IIvXQmJOAXb5rJW5egDWwHScBoCWjlleiUxbxqzMnL9 -1-6-0 1-6-0 2x4 || 5 Scale = 1:15.2 7.00 12 3x10 || 3 0-10-3 6 3x8 || 2x4 || 2x4 ||

Plate Offsets (X,Y)	[2:0-1-12,0-0-7], [3:0-7-8,Edge]			
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 FBC2020/TPI2014	CSI. TC 0.16 BC 0.03 WB 0.05 Matrix-P	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         6         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 24 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

3-4-0

except end verticals.

LUMBER-

TOP CHORD 2x6 SP No.2 \*Except\* 1-4: 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 **WEBS** 

2x4 SP No.3 **OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=3-4-0, 6=3-4-0, 7=3-4-0

Max Horz 2=77(LC 12)

Max Uplift 2=-28(LC 12), 6=-20(LC 12), 7=-47(LC 12) Max Grav 2=174(LC 1), 6=51(LC 19), 7=103(LC 19)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-7-0, Exterior(2N) 1-7-0 to 3-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 7.



Structural wood sheathing directly applied or 3-4-0 oc purlins,

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

Date:

April 27,2022



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545459 3130991 PB01 **GABLE** 16 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:21 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-mUTve6K0wrjyTT5HCOklSU\_m1CWPSCJnx8g8TGzMnL8 8-0-0 16-0-0 8-0-0 8-0-0 Scale = 1:31.3 4x4 =4 7.00 12 12 2x4 || 2x4 || 5 3 0-1-10 0-1-10 3x6 =3x6 =10 9 8

			16-0-0	<u>'</u>
Plate Offsets (X,Y)	[2:0-3-3,0-1-8], [6:0-3-3,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b> TC 0.15	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0 TCDL 7.0 BCLL 0.0 *	Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	TC 0.15 BC 0.11 WB 0.06	Vert(LL) 0.00 6 n/r 120   Vert(CT) 0.00 7 n/r 120   Horz(CT) 0.00 6 n/a n/a	MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	11012(01) 0.00 0 11/4 11/4	Weight: 59 lb FT = 20%

2x4

16-0-0

LUMBER-TOP CHORD BOT CHORD

**OTHERS** 

2x4 SP No 2 2x4 SP No 2 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.

2x4

REACTIONS. All bearings 14-3-11.

(lb) -Max Horz 2=99(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 8=-137(LC 13), 10=-138(LC 12) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 8=318(LC 20), 10=318(LC 19)

2x4

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

- 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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 8-0-0, Exterior(2R) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 15-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb)
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Date:

April 27,2022

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

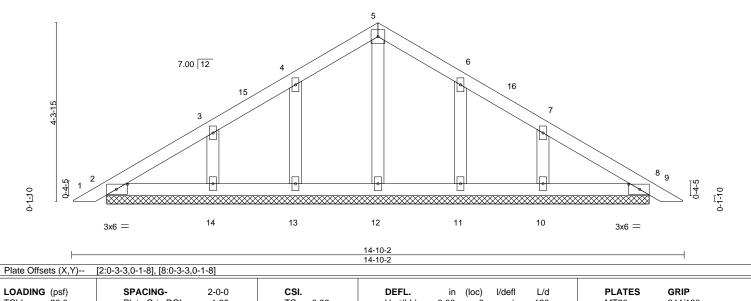


Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES. T27545460 PB01G **GABLE** 2 3130991 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:23 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-itbf2oMGSSzginEfKpmDYv4810Dtw6J4OS9FY9zMnL6

Scale = 1:27.9

14-10-2

4x4 =



LOADIN	· · ·	SPACING-	2-0-0	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	8	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	9	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-S						Weight: 62 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3

REACTIONS. All bearings 13-1-13. (lb) -

Max Horz 2=-91(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- 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) 0-3-11 to 3-5-1, Interior(1) 3-5-1 to 7-5-1, Exterior(2R) 7-5-1 to 10-5-1, Interior(1) 10-5-1 to 14-6-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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, 8, 13, 14, 11,
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

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

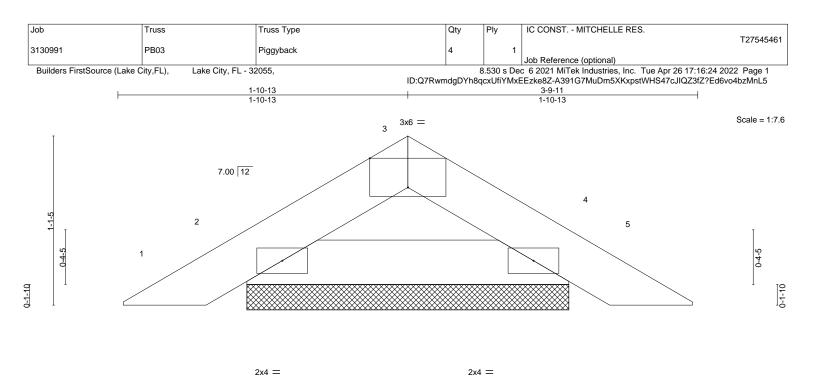
April 27,2022

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





	1				3-9-11					i .	
					3-9-11					٦	
e Offsets (X	,Y)	[3:0-3-0,Edge]									
NDING (psf)		SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
1 20.0	1	Plate Grin DOI	1 25	TC 0.02	\/ort(    )	-0.00 4	n/r	120	MT20	244/100	

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.02	Vert(LL)	-0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-P						Weight: 10 lb	FT = 20%

LUMBER-

Plate

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

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-9-11 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-1-6, 4=2-1-6

Max Horz 2=-21(LC 10)

Max Uplift 2=-28(LC 12), 4=-28(LC 13) Max Grav 2=107(LC 1), 4=107(LC 1)

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; 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
- 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Date:

April 27,2022

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

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

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545462 3130991 T01 3 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:25 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-fGjQTTNW\_4DOy5O2RDohdK9JSplPOsdNsmeMc1zMnL4 <del>-1-6-8</del> <del>1-6-8</del> 10-9-8 15-10-10 21-7-0 23-1-8 5-8-6 5-1-2 5-1-2 5-8-6 1-6-8 Scale = 1:54.6 4x6 || 5 22 9.00 12 2x4 || 2x4 || 6 4x4 // 4x4 💸 11 24 23 25 12 10 4x6 =4x12 | 3x4 4x4 = 4x12 || 5-8-6 15-10-10 21-7-0 5-8-6 10-2-4 5-8-6 Plate Offsets (X,Y)--[2:0-8-11,0-0-2], [8:0-8-7,0-0-2]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

in (loc)

0.04

-0.22 10-12

-0.42 10-12

8

I/defI

>999

>617

n/a

L/d

240

180

n/a

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

**PLATES** 

Weight: 149 lb

MT20

Structural wood sheathing directly applied or 3-4-13 oc purlins.

GRIP

244/190

FT = 20%

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

LOADING (psf)

20.0

7.0

0.0

10.0

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x6 SP No.2 \*Except\* 8-11: 2x6 SP M 26

WFBS 2x4 SP No.3

**SLIDER** Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

REACTIONS. (size) 2=0-3-0, 8=0-3-0

Max Horz 2=-204(LC 10)

Max Uplift 2=-267(LC 12), 8=-269(LC 13) Max Grav 2=1306(LC 19), 8=1315(LC 20)

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

2-4=-1604/321, 4-5=-1625/492, 5-6=-1673/498, 6-8=-1647/328 TOP CHORD

2-12=-269/1339, 10-12=-99/846, 8-10=-183/1275 **BOT CHORD** WEBS

5-10=-349/1058, 5-12=-339/984

### 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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 23-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.

2-0-0

1.25

1.25

NO

CSI.

ТС

BC

WB

Matrix-MS

0.76

0.68

0.68

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 8=269.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-9=-54, 12-13=-20, 12-25=-80(F=-60), 17-25=-20



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

April 27,2022

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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545463 3130991 T01G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:28 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-3rOY6VPPH?bzpY7d6MMOFznx01pjbM3pYkt0DMzMnL1 5-8-6 10-9-8 15-10-10 21-7-0 23-1-8 1-6-8 5-8-6 5-1-2 5-1-2 5-8-6 Scale = 1:55.8 4x6 || 6 9.00 12 5 8-10-5 3x4 // 3x4 × 4x4 / 4x4 ≫ 8 3 15 35 36 37 38 3940 4x12 || 3x4 3x4 = 4x12 || 4x6 = 18 17 16 14 12 13

> 5-8-6 15-8-0 21-7-0 9-9-0 5-8-6 5-8-6

> > **BRACING-**

WFBS

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-4-0,0-0-5], [10:0-4-0,0-0-5]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DE	FL.	in	(loc)	l/defl	L/d	PLA	ATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Ve	t(LL)	-0.07 1	14-16	>999	240	MT2	20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Ve	t(CT)	-0.12 1	14-16	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.12	Ho	z(CT)	0.00	10	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS							Wei	ght: 204 lb	FT = 20%

LUMBER-

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

WFBS **OTHERS** 2x4 SP No.3 SLIDER

Left 2x6 SP No.2 1-8-3, Right 2x6 SP No.2 1-8-3

REACTIONS. All bearings 5-11-0.

(lb) - Max Horz 2=196(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 18 except 14=-241(LC 9), 16=-258(LC 8), 17=-612(LC 33),

13=-611(LC 34), 12=-102(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 13, 12 except 2=260(LC 1), 10=260(LC 1), 14=1208(LC 34), 14=848(LC 1), 16=1227(LC 33), 16=848(LC 1)

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

WEBS 7-14=-314/244, 5-16=-314/244

### 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; 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 studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 18 except (jt=lb) 14=241, 16=258, 17=612, 13=611, 12=102.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 22 lb down and 16 lb up at 7-8-4, 22 lb down and 16 lb up at 9-8-4, 22 lb down and 16 lb up at 10-9-8, and 22 lb down and 16 lb up at 11-10-12, and 22 lb down and 16 lb up at 13-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) 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

### O'REGA,

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

6-14 6-16

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

1 Row at midpt

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

April 27,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	IC CONST MITCHELLE RES.
					T27545463
3130991	T01G	GABLE	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:28 2022 Page 2 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-3rOY6VPPH?bzpY7d6MMOFznx01pjbM3pYkt0DMzMnL1

LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb) Vert: 15=-16(B) 36=-16(B) 37=-16(B) 38=-16(B) 40=-16(B)

Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545464 3130991 T02 16 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:29 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-X1ywJrQ12lkqQiipg3tdnAK?VR6PKgczmOcZlpzMnL0 10-9-8 15-10-10 21-7-0 5-8-6 5-1-2 5-1-2 5-8-6 Scale = 1:54.6 4x6 || 5 21 9.00 12 2x4 || 2x4 || 6 4x4 / 4x4 × 8 1-1-9 23 1022 9 4x6 = 4x12 || 3x4 4x4 = 4x12 || 5-8-6 15-10-10 21-7-0 5-8-6 5-8-6 10-2-4

**BRACING-**

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)-- [2:0-8-11,0-0-2], [8:0-9-3,Edge]

						1					
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.22	9-11	>999	240	MT20
TCDL	7.0	Lumber DOL	1.25	ВС	0.68	Vert(CT)	-0.42	9-11	>624	180	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.04	8	n/a	n/a	
BCDL	10.0	Code FBC2020/TPI20	014	Matri	x-MS						Weight:

LUMBER-

TOP CHORD 2x4 SP No 2

**BOT CHORD** 2x6 SP No.2 \*Except\* 8-10: 2x6 SP M 26

WFBS 2x4 SP No.3

**SLIDER** Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 8=0-3-0, 2=0-3-0 Max Horz 2=195(LC 11)

Max Uplift 8=-232(LC 13), 2=-265(LC 12)

Max Grav 8=1220(LC 20), 2=1301(LC 19)

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

2-4=-1597/320, 4-5=-1619/491, 5-6=-1666/498, 6-8=-1639/327 TOP CHORD

**BOT CHORD** 2-11=-284/1321, 9-11=-114/829, 8-9=-197/1254

WEBS 5-9=-349/1054, 5-11=-339/982

### 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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 21-7-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=232, 2=265.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-8=-54, 11-16=-20, 9-11=-80(F=-60), 9-12=-20



S

Structural wood sheathing directly applied or 3-4-15 oc purlins.

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

: 146 lb

GRIP 244/190

FT = 20%

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

April 27,2022

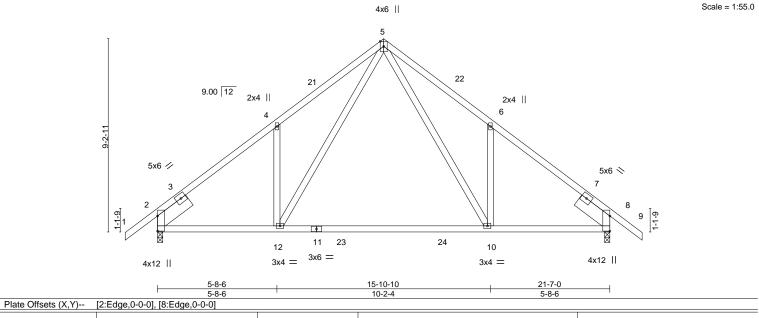
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545465 3130991 T03 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:30 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-?DWJWBRfpcsg2sH0EnOsKOsAbqOf39U6?2M7IFzMnL? 10-9-8 15-10-1<u>0</u> 21-7-0 23-1-8 5-8-6 5-8-6 5-1-2 5-1-2 5-8-6 1-6-8



DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

in (loc)

0.06

-0.42 10-12

-0.67 10-12

8

I/defI

>623

>388

n/a

L/d

240

180

n/a

Rigid ceiling directly applied or 2-2-0 oc bracing.

**PLATES** 

Weight: 134 lb

MT20

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

GRIP

244/190

FT = 20%

LUMBER-

LOADING (psf)

20.0

7.0

0.0

10.0

**TCLL** 

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 \*Except\*

8-11: 2x4 SP M 31 **WEBS** 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

REACTIONS. (size) 2=0-3-0, 8=0-3-0

Max Horz 2=204(LC 11)

Max Uplift 2=-182(LC 12), 8=-182(LC 13) Max Grav 2=997(LC 19), 8=997(LC 20)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

2-4=-1095/230, 4-5=-1113/361, 5-6=-1126/359, 6-8=-1106/190 TOP CHORD

**BOT CHORD** 2-12=-161/929, 10-12=-34/609, 8-10=-68/837

WEBS 5-10=-253/663, 6-10=-245/261, 5-12=-256/643, 4-12=-242/262

### 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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 23-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.

2-0-0

1.25

1.25

YES

CSI.

ТС

BC

WB

Matrix-MS

0.74

0.93

0.51

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=182, 8=182.



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

April 27,2022

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



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545466 3130991 T03G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:31 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-TP4hkXSHaw\_Xg0sCoUv5sbPUqEy6oj9FEi5gqhzMnL\_ 23-1-8 10-9-8 21-7-0 10-9-8 10-9-8 1-6-8 Scale = 1:54.7 5x6 = 8 9 7 26 27 9.00 12 10 6 11 5 3x4 \\ 12 3x4 // 13 3 3x10 || 3x10 || 25 23 22 19 24 21 20 18 17 16 4x6 = 21-7-0 [2:0-3-4 0-0-2] [14:0-3-4 0-1

Plate Oil	1ate Offsets (A, 1) [2:0-5-4,0-0-2], [14:0-5-4,0-1-2]													
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	15	n/r	120	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.01	15	n/r	120				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	14	n/a	n/a				
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 188 lb	FT = 20%		

LUMBER-TOP CHORD

2x6 SP No 2 \*Except\* 1-3.13-15: 2x4 SP No.2

BOT CHORD 2x6 SP No.2

**OTHERS** 2x4 SP No.3 **BRACING-**

TOP CHORD **BOT CHORD** WFBS

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

8-20

1 Row at midpt

REACTIONS. All bearings 21-7-0.

(lb) -Max Horz 2=-193(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 23, 24, 19, 18, 17 except 25=-114(LC 12),

16=-110(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 23, 24, 25, 19, 18, 17, 16

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 Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 23-1-8 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, 14, 21, 23, 24, 19, 18, 17 except (jt=lb) 25=114, 16=110.



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

April 27,2022

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



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545467 3130991 T04 5 Roof Special Job Reference (optional)

4x4 =

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:33 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-QoCR9CTY6XEFvJ?avvyZx0UIP2QnGYBYh0antazMnKy 5-8-6 10-9-8 <u>15-10-10</u> 19-4-0 21-7-0 23-1-8 2-3-0 1-6-8 5-8-6 5-1-2 3-5-6

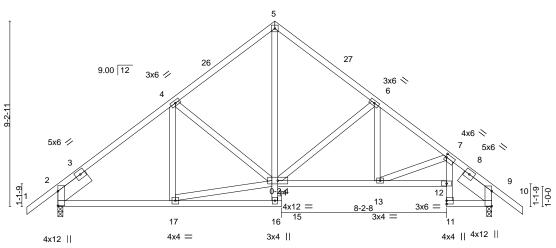
Scale = 1:57.3

Structural wood sheathing directly applied or 4-11-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-1 oc bracing: 11-12.

10-0-0 oc bracing: 14-16



11<sub>-</sub>1-8 0-2-4 5-8-6 10-11-4 15-10-10 21-7-0 5-8-6 5-2-14 4-9-2 3-5-6 2-3-0

BRACING-

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)-- [2:Edge,0-0-0], [7:0-0-12,0-2-0], [9:Edge,0-0-0]

LOADIN TCLL TCDL BCLL	<b>G</b> (psf) 20.0 7.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 YES	CSI. TC BC WB	0.51 0.91 0.32	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.12 0.07		l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	Code FBC2020/T		1	ix-MS	11012(01)	0.07	9	II/a	II/a	Weight: 151 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 \*Except\*

5-16: 2x4 SP No.3 **WEBS** 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E 1-11-8, Right 2x8 SP 2400F 2.0E 1-11-8

REACTIONS. (size) 2=0-3-0, 9=0-3-0 Max Horz 2=204(LC 11)

Max Uplift 2=-181(LC 12), 9=-181(LC 13)

Max Grav 2=885(LC 1), 9=885(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-918/196, 4-5=-771/216, 5-6=-778/224, 6-7=-1088/209, 7-9=-904/202 TOP CHORD **BOT CHORD** 2-17=-165/714, 5-14=-154/560, 13-14=-91/853, 12-13=-122/984, 9-11=-71/574

WEBS 14-17=-170/668, 6-14=-405/189, 6-13=0/266

### 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) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-9-8, Exterior(2R) 10-9-8 to 13-9-8, Interior(1) 13-9-8 to 23-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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=181, 9=181.



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

April 27,2022

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 chorembers 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545468 3130991 T05 3 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:34 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-u\_mpMYUAtrM6XTanTcToUE1ukSmU??0iwgKKQ0zMnKx 14-0-0 20-10-0 28-0-0 29-6-0

6-10-0

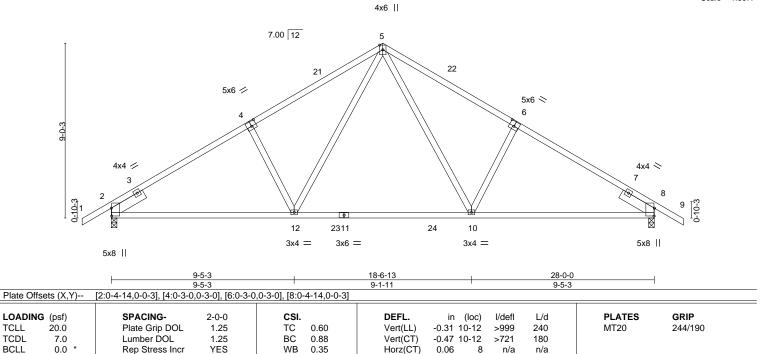
7-2-0

6-10-0

0.35

Matrix-MS

Scale = 1:59.4



Horz(CT)

BRACING-

TOP CHORD

**BOT CHORD** 

0.06

8

n/a

n/a

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

Structural wood sheathing directly applied or 3-6-3 oc purlins.

LUMBER-

**TCLL** 

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No 3 WFBS

10.0

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=199(LC 11)

Max Uplift 2=-240(LC 12), 8=-240(LC 13) Max Grav 2=1268(LC 19), 8=1268(LC 20)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-4=-1649/304, 4-5=-1547/352, 5-6=-1547/352, 6-8=-1649/304

**BOT CHORD** 2-12=-285/1492, 10-12=-94/1012, 8-10=-162/1346

**WEBS**  $5-10=-187/733,\ 6-10=-322/240,\ 5-12=-187/733,\ 4-12=-322/240$ 

### 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 14-0-0, Exterior(2R) 14-0-0 to 17-0-0, Interior(1) 17-0-0 to 29-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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.

YES

- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=240, 8=240.



Weight: 148 lb

FT = 20%

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

April 27,2022

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545469 3130991 T05G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:36 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-qNtanEWQOScqmnk9a1VGZf6MiFfBTzE?N\_pRUvzMnKv 14-0-0 28-0-0 14-0-0 1-6-0 Scale = 1:56.2 5x6 = 7.00 12 11 12 10 13 9 4x6 / 14 4x6 <> 8 15 7 16 3x4 \\ 3x4 // 3x10 II 5 3x10 || 18 4 19 36 20 21 [5] 3x8 II 3x8 II 33 32 30 29 28 26 25 23 22 5x6 = 28-0-0 28-0-0 Plate Offsets (X,Y)--[2:0-2-8,0-0-7], [3:0-7-8,Edge], [19:0-7-8,Edge], [20:0-2-8,0-2-15], [28:0-3-0,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.12 Vert(LL) -0.01 21 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.03 Vert(CT) -0.01 21 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.11 Horz(CT) 0.01 20 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 213 lb FT = 20%

LUMBER-

TOP CHORD 2x6 SP No 2 \*Except\* 1-4.18-21: 2x4 SP No.2

BOT CHORD 2x4 SP No.2

**OTHERS** 2x4 SP No.3 **BRACING-**TOP CHORD

**BOT CHORD** WFBS

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

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

1 Row at midpt

REACTIONS. All bearings 28-0-0.

(lb) -Max Horz 2=-190(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20

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) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 14-0-0, Corner(3R) 14-0-0 to 17-0-0, Exterior(2N) 17-0-0 to 29-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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

April 27,2022

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545470 4 3130991 T06 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:38 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-mm?KCwXgw3sY?4uYiSXke4BaF39VxjHHrlIYZnzMnKt 1<u>7-5-13</u> <u>24-4-0</u> 31-6-4 34-6-0 36-0-0 1-6-0 13-8-3 2-11-12 6-9-3 3-9-11 6-10-3 7-2-4 Scale = 1:67.8 5x6 = 4x6 = 7.00 12 5x8 / 27 25 5x6 < 6 3 9-6-6 3x6 > 3x4 || 4x6 < 4x4 < 8 9<sup>28</sup> 1-9-8 10 Ħ 32 34 16 30 31 17 19 18 15 3x8 3x4 3x6 3x4 =12 3x8 || 13 3x8 =3x8 = 17-5-13 28-10-0 29<sub>1</sub>0-0 0-2-0 34-6-0 9-1-12 8-4-1 6-10-3 4-6-0 5-6-0 Plate Offsets (X,Y)--[3:0-4-0,0-3-0], [4:0-3-0,0-1-12], [5:0-3-0,0-1-12], [6:0-3-0,0-3-0], [10:0-5-2,0-0-3], [12:0-3-8,0-1-8], [14:0-1-8,0-0-12], [14:0-1-8,0-12], [14:0-1-8,0-12], [14:0-1-8,0-12], [14:0-1-8,0-12], [14:0-1-LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.57 Vert(LL) 0.25 18-19 >427 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.81 Vert(CT) -0.33 18-19 >331 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.72 Horz(CT) 0.05 10 n/a n/a BCDL Code FBC2020/TPI2014 Matrix-MS Weight: 228 lb FT = 20% 10.0

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 7-12: 2x4 SP No.3

**WEBS** 2x4 SP No.3

**SLIDER** Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 10=0-3-8, 18=0-3-8, 19=0-3-8

Max Horz 19=-251(LC 10)

Max Uplift 10=-243(LC 13), 18=-296(LC 12), 19=-95(LC 9) Max Grav 10=1051(LC 20), 18=1861(LC 2), 19=277(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  $3\text{-}4\text{-}0/509,\ 4\text{-}5\text{--}451/234,\ 5\text{-}6\text{--}587/213,\ 6\text{-}7\text{--}1231/305,\ 7\text{-}8\text{--}1703/374,}$ TOP CHORD

8-10=-1294/306, 2-19=-315/195

18-19=-378/228, 16-18=-80/266, 15-16=-83/985, 14-15=-222/1483, 12-14=-131/856,

7-14=-26/325, 10-12=-181/1023

**WEBS** 3-18=-449/271, 4-18=-1262/192, 4-16=-167/827, 6-16=-802/276, 6-15=-38/477,

7-15=-567/158, 8-14=-223/1422, 8-12=-1156/222, 3-19=-144/485

### NOTES-

BOT CHORD

- 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) -1-6-0 to 1-11-6, Interior(1) 1-11-6 to 13-8-3, Exterior(2E) 13-8-3 to 17-5-13, Exterior(2R) 17-5-13 to 22-4-6, Interior(1) 22-4-6 to 36-0-0 zone; end vertical left exposed; porch left 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19 except (jt=lb) 10=243, 18=296.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-4-8 oc purlins,

4-18, 5-16, 6-16

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 18-19.

1 Row at midpt

10-0-0 oc bracing: 12-14

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

April 27,2022

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

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545471 T07 Piggyback Base 4 3130991 Job Reference (optional)

8-0-0

17-0-3

5-6-14

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

<u>5-10-</u>0

5-10-0

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:39 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-EyZiPGYIhN\_PdETkGA3zBHkfKTZLgAgR4y155EzMnKs 33-0-3 43-1-8 44-8-0 1-6-8 38-0-0 8-0-0 5-1-8

Structural wood sheathing directly applied or 2-9-9 oc purlins,

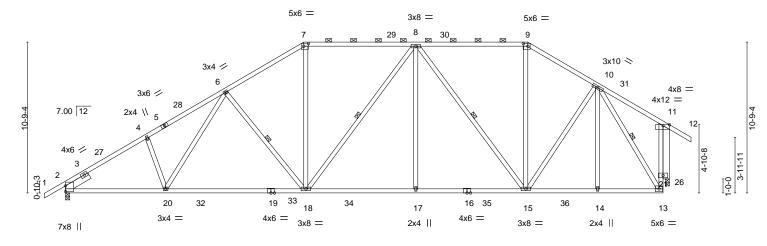
except end verticals, and 2-0-0 oc purlins (3-1-13 max.): 7-9.

6-18, 8-18, 8-15, 10-13

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

1 Row at midpt

Scale = 1:82.3



	7-1-12	17-0-3	25-0-3	33-0-3	38-0-0	43-1-8
	7-1-12	9-10-7	8-0-0	8-0-0	4-11-13	5-1-8
Plate Offsets (X,	Y) [7:0-4-0,0-2-4], [9	):0-4-0,0-2-4], [11:0-5-8,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 0.93	Vert(LL) -0.40 18-20 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.51	Vert(CT) -0.67 18-20 >770 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.10 26 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 311 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No.2 \*Except\* 1-5: 2x4 SP M 31

BOT CHORD 2x4 SP M 31

**WEBS** 2x4 SP No.3 \*Except\*

8-18,8-15: 2x4 SP No.2

**OTHERS** 2x6 SP No.2

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 26=0-3-8

Max Horz 2=227(LC 12)

Max Uplift 2=-384(LC 12), 26=-346(LC 13) Max Grav 2=1880(LC 2), 26=1893(LC 2)

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

TOP CHORD 2-4=-2822/548, 4-6=-2720/603, 6-7=-2213/500, 7-8=-1860/475, 8-9=-1390/356, 9-10=-1655/366, 10-11=-285/140, 13-21=-178/1576, 11-21=-178/1576

**BOT CHORD** 2-20=-595/2411, 18-20=-488/2138, 17-18=-310/1911, 15-17=-310/1911, 14-15=-153/1084,

13-14=-153/1084

**WEBS** 6-20=-105/461, 6-18=-568/251, 7-18=-113/827, 8-17=0/435, 8-15=-915/235,

9-15=-100/549, 10-15=-154/568, 10-13=-1729/217, 11-26=-1905/348

### 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) -1-6-0 to 2-9-12, Interior(1) 2-9-12 to 17-0-3, Exterior(2R) 17-0-3 to 23-1-5, Interior(1) 23-1-5 to 33-0-3, Exterior(2R) 33-0-3 to 39-1-5, Interior(1) 39-1-5 to 44-8-0 zone; end vertical 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) 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) Bearing at joint(s) 26 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=384, 26=346.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

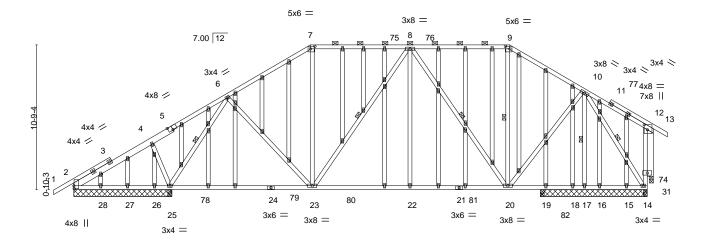


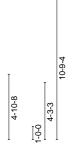
Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545472 T07G GABLE I Gable I Gable COMMON I I Gable 3130991 Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:45 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-36wzgJd3HDIYL9wucQ9NRY\_l6tYq4ylJStUPJtzMnKm 25-0-3 38-0-0 43-1-8 17-7-2 6-1-14 7-5-1 5-6-12 5-1-8

Scale = 1:85.7





1	7-1	-12	7-3-8	17-7-2	25-0-3	32-5-4	35-0-0	38-0-0 38-8 <sub>F</sub> 4 42-8-0 43 <sub>F</sub> 1 <sub>1</sub> -8
	7-1	-12	0-1 <sup>!</sup> 12	10-3-10	7-5-1	7-5-1	2-6-12	3-0-0 0-8-4 3-11-12 0-5-8
Plate Offsets (X,	Y) [2:0-2	2-8,0-0-3	3], [5:0-4-0	,Edge], [7:0-4-0,0-2-4], [9:0-4	4-0,0-2-4], [12:0-4-8,0-2-1	2]		

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.66	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.29 23-25 >999 240	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.83	Vert(CT) -0.46 23-25 >723 180	101120 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.51 Matrix-MS	Horz(CT) 0.03 74 n/a n/a	Weight: 498 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

TOP CHORD 2x4 SP No 2 \*Except\* 2-5: 2x6 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\*

2-24: 2x4 SP M 31 **WEBS** 2x4 SP No.3 \*Except\*

8-23,8-20: 2x4 SP No.2

**OTHERS** 2x4 SP No.3 \*Except\* 12-31: 2x6 SP No.2

REACTIONS. All bearings 7-11-8 except (jt=length) 2=7-3-8, 25=7-3-8, 25=7-3-8, 28=7-3-8,

27=7-3-8, 26=7-3-8, 2=7-3-8, 74=0-3-8.

(lb) - Max Horz 2=244(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 28 except 25=-354(LC 12),

17=-256(LC 13), 14=-125(LC 13), 26=-539(LC 18)

Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 18, 19, 19, 28, 27, 2 except 25=2072(LC 2), 25=1642(LC 1), 17=1152(LC 2), 14=364(LC 24),

14=356(LC 1)

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

TOP CHORD 6-7=-1075/272, 7-8=-869/281, 8-9=-612/248, 9-10=-772/238

**BOT CHORD** 23-25=-196/634. 22-23=-203/989. 20-22=-203/989

4-25=-299/197, 6-25=-1340/314, 6-23=-93/443, 7-23=-44/285, 8-23=-278/163, WEBS

8-22=0/410, 8-20=-689/192, 10-20=-156/849, 10-17=-1128/250

### 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) -1-6-0 to 2-9-12, Interior(1) 2-9-12 to 17-7-2, Exterior(2R) 17-7-2 to 23-8-5, Interior(1) 23-8-5 to 32-5-4, Exterior(2R) 32-5-4 to 38-6-7, Interior(1) 38-6-7 to 44-2-0 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.



6-25, 8-23, 8-20, 9-20, 10-17, 10-14

Structural wood sheathing directly applied or 5-3-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-8-3 max.): 7-9.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

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

April 27,2022

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



Job	Truss	Truss Type	Qty	Ply	IC CONST MITCHELLE RES.
					T27545472
3130991	T07G	GABLE I Gable I Gable COMMON I I Gable	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:46 2022 Page 2 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-XIUMtfdh2XtPzJV4A8hczlXwsHu3pPYThXEzrKzMnKl

### NOTES-

- 10) Bearing at joint(s) 74 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 19, 28, 2 except (jt=lb) 25=354, 17=256, 14=125, 26=539.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 6-0-0

6-0-0

12-7-8

6-7-8

17-0-3

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:47 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-?U2k5?eKpq?GaT4HkrCrWz315hB2YngcvBzWNmzMnKk <u>31-4-0</u> 33-0-3 1-8-3 38-0-0 43-1-8 8-0-0 4-11-13

Scale = 1:91.8 5x6 = 3x8 =5x6 =7.00 12 7 8 34 35\_ 4x6 // 3x10 > 6 10 3x6 / 36 4x8 = 33 4x12 =/ 11 12 4 4x4 // [ | | 18 18-8-8 23 37 20 38 25  $4x6 = ^{2x4}$ 16 15 14 13 3x8 =3x4 || 6x8 = 4x6 || 4x4 =5x6 =7x8 || 2x4 || 5x8 =2x4 II

6-3-13

5x8 =

10-0-0 oc bracing: 22-24

1 Row at midpt

Structural wood sheathing directly applied or 2-7-11 oc purlins,

6-21, 8-21, 8-17, 10-13

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 7-9.

Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

	6-0-0	12-7-8	17-0-3 <sub>1</sub>	25-0-3	31-4-0	33-0-3	38-0-0	43-1-8
	6-0-0	6-7-8	4-4-11	8-0-0	6-3-13	1-8-3	4-11-13	5-1-8
Plate Offsets (X,Y)	[7:0-4-0,0-2-4], [9	):0-4-0,0-2-4], [11:0-5-	8,Edge], [17:0-	-2-8,0-2-8], [22:0-5-12,0-3	3-0], [24:0-3-0,0-0	0-8], [25:0-	3-8,0-3-0]	

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.94	Vert(LL)	-0.26	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.45	19-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.17	31	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 331 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-TOP CHORD 2x4 SP No 2 \*Except\*

1-5: 2x4 SP M 31

**BOT CHORD** 2x4 SP No.2 \*Except\*

2-23: 2x4 SP M 31, 6-24,16-18: 2x4 SP No.3

**WEBS** 2x4 SP No.3 **OTHERS** 2x6 SP No.2

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 31=0-3-8

Max Horz 2=227(LC 12)

Max Uplift 2=-382(LC 12), 31=-345(LC 13) Max Grav 2=1837(LC 2), 31=1856(LC 2)

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

TOP CHORD 2-4=-2704/542, 4-6=-2792/605, 6-7=-2353/546, 7-8=-1992/509, 8-9=-1529/368,

9-10=-1802/379, 10-11=-278/139, 13-26=-178/1543, 11-26=-178/1543

**BOT CHORD** 2-25=-589/2325, 24-25=-29/258, 6-22=-96/527, 21-22=-530/2379, 19-21=-341/2080, 18-19=-341/2080, 17-18=-314/2204, 13-14=-152/1061

4-25=-299/147, 22-25=-568/2095, 6-21=-781/274, 7-21=-126/917, 8-21=-271/208, 8-19=0/453, 8-17=-918/244, 15-17=0/305, 9-17=-108/621, 10-17=-167/732,

10-13=-1695/216, 14-17=-126/1148, 11-31=-1868/347

### NOTES-

**WEBS** 

- 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) -1-6-0 to 2-9-12, Interior(1) 2-9-12 to 17-0-3, Exterior(2R) 17-0-3 to 23-1-5, Interior(1) 23-1-5 to 33-0-3, Exterior(2R) 33-0-3 to 39-1-5, Interior(1) 39-1-5 to 44-8-0 zone; end vertical 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) 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) Bearing at joint(s) 31 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545474 3130991 T09 Piggyback Base Job Reference (optional)

8-0-0

17-0-3

4-4-11

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

6-0-0

6-0-0

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:49 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-ytAUWhgaKSF\_qnEfrGEJbO9OOUt70iHvNVSdSezMnKi 38-0-0 43-1-8 33-0-3 4-11-13

Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 7-9.

6-17, 8-17, 8-14, 10-12

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

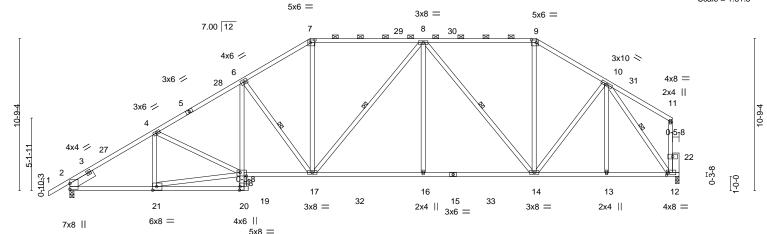
8-0-0

10-0-0 oc bracing: 18-20

1 Row at midpt

Scale = 1:81.5

5-1-8



	<u> </u>	6-0-0	12-7-8	17-0-3		5-0-3	33-0			3-0-0	43-1-8	
	<u> </u>	6-0-0	6-7-8	4-4-11	. 8	-0-0	8-0-	0	4-1	1-13	5-1-8	
Plate Offs	sets (X,Y)	[7:0-4-0,0-2-4], [9:0-4-0,0	0-2-4], [12:0-1-	12,0-2-0], [18:	0-5-8,0-3-0], [2	20:0-3-0,0-0-8],	[21:0-3-8,0-3-0]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLA	TES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	-0.24 16-17	>999	240	MT2	.0	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.42 16-17	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.14 12	n/a	n/a			
BCDL	10.0	Code FBC2020/7	PI2014	Matrix	-MS					Wei	ght: 306 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\* 1-5: 2x4 SP M 31 **BOT CHORD** 

2x4 SP No.2 \*Except\* 2-19: 2x4 SP M 31, 6-20: 2x4 SP No.3

**WEBS** 2x4 SP No.3

**OTHERS** 2x6 SP No.2

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-8, 12=0-3-0

Max Horz 2=276(LC 9)

Max Uplift 2=-383(LC 12), 12=-305(LC 13) Max Grav 2=1821(LC 2), 12=1764(LC 2)

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

TOP CHORD 2-4=-2677/543, 4-6=-2758/602, 6-7=-2319/544, 7-8=-1962/508, 8-9=-1454/349,

9-10=-1731/358

**BOT CHORD** 2-21=-558/2309, 20-21=-28/255, 6-18=-93/528, 17-18=-494/2353, 16-17=-386/2039,

14-16=-386/2039, 13-14=-213/1148, 12-13=-213/1148

**WEBS** 4-21=-296/142, 18-21=-538/2081, 6-17=-782/271, 7-17=-122/900, 8-17=-255/210, 8-16=0/475, 8-14=-963/249, 9-14=-110/587, 10-14=-166/530, 10-12=-1928/314

### 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) -1-6-0 to 2-9-12, Interior(1) 2-9-12 to 17-0-3, Exterior(2R) 17-0-3 to 23-1-5, Interior(1) 23-1-5 to 33-0-3, Exterior(2R) 33-0-3 to 39-1-5, Interior(1) 39-1-5 to 42-6-4 zone; end vertical 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=383 12=305
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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

Design Valid to its 9 this with Min New Commercials. This design is based only upon parameters shown, and is 10 at an individual obtaining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

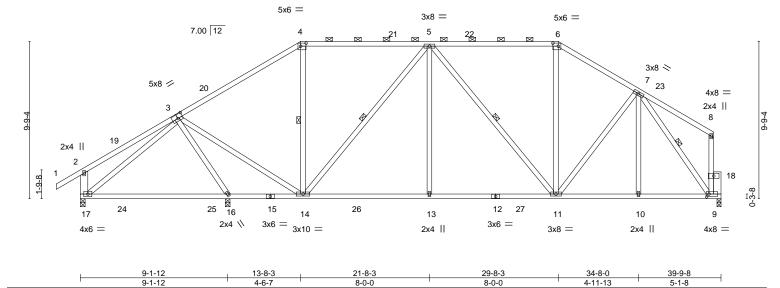
\*\*ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545475 T10 Piggyback Base 3130991 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:51 2022 Page 1

ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-uGHFxMhqs3Vi34N2zhGngpEllla6UXeCqpxkWXzMnKg 13-8-3 21-8-3 29-8-3 34-8-0 39-9-8 6-0-0 7-8-3 8-0-0 8-0-0 4-11-13 5-1-8

Scale = 1:71.6



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.22 16-17	>491	240	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.33 16-17	>328	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04 9	n/a	n/a				
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS					Weight: 279 lb	FT = 20%		

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

Plate Offsets (X.Y)--

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

2x4 SP No.3 \*Except\* WFBS 2-17: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

(size) 16=0-3-8, 17=0-3-8, 9=0-3-0

Max Horz 17=267(LC 9)

Max Uplift 16=-307(LC 9), 17=-129(LC 12), 9=-249(LC 13) Max Grav 16=1447(LC 2), 17=574(LC 25), 9=1279(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD  $3-4=-854/214,\ 4-5=-659/241,\ 5-6=-961/294,\ 6-7=-1164/295,\ 2-17=-263/180$ 

**BOT CHORD**  $16-17 = -199/402,\ 14-16 = -483/147,\ 13-14 = -251/1145,\ 11-13 = -251/1145,\ 10-11 = -177/819,$ 

9-10=-177/819

**WEBS**  $3-16=-1408/400,\ 3-14=-184/1320,\ 5-14=-793/203,\ 5-13=0/489,\ 5-11=-352/155,$ 

[3:0-3-12.0-3-0], [4:0-4-0.0-2-4], [6:0-4-0.0-2-4], [9:0-1-12.0-2-0]

6-11=-49/321, 7-11=-129/280, 3-17=-365/58, 7-9=-1346/247

### 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 39-2-4 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=307, 17=129, 9=249,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-4-1 oc purlins,

4-14, 5-14, 5-11, 7-9

except end verticals, and 2-0-0 oc purlins (5-1-3 max.): 4-6.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 14-16.

1 Row at midpt

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

April 27,2022

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

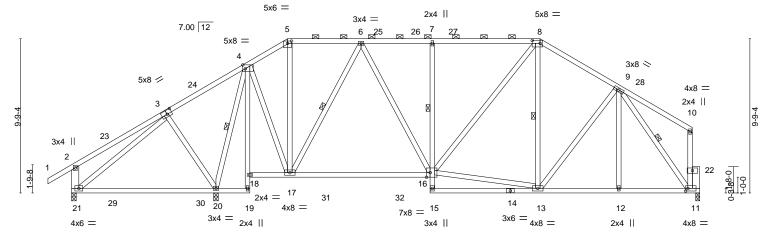


Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545476 T11 4 3130991 Piggyback Base Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:53 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-qeP?L2j4OglQJOXQ46JFIEJ9i6EuyZPVI7QqbQzMnKe 13-8-3 2-4-11 29-8-3 34-8-0 18-4-1 4-11-13 6-0-0 5-3-8 4-7-14 6-11-10

Scale = 1:73.0



1	9-1-12	<sub> </sub> 11-3-8 <sub> </sub> 13-8-3 <sub> </sub>	22-8-8	29-8-3	34-8-0	39-9-8	
ſ	9-1-12	2-1-12 2-4-11	9-0-6	6-11-10	4-11-13	5-1-8	
Plate Offsets (X,	() [3:0-3-12,0-3-0], [4:0-1	-15,Edge], [5:0-3-0,0-1-12]	, [8:0-6-0,0-2-4], [11:0-1-12,0-2-0],	[16:0-2-12,Edge]			

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (l	oc) l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.19 20-	21 >577	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.49 16-	17 >744	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05	11 n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	I2014	Matri	x-MS					Weight: 315 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-TOP CHORD 2x4 SP No 2

**BOT CHORD** 2x4 SP No.2 \*Except\*

4-19,7-15: 2x4 SP No.3

WFBS 2x4 SP No.3 \*Except\*

2-21: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

REACTIONS. (size) 20=0-3-8, 21=0-3-8, 11=0-3-0

Max Horz 21=267(LC 9)

Max Uplift 20=-472(LC 9), 21=-84(LC 8), 11=-238(LC 13) Max Grav 20=1906(LC 2), 21=243(LC 20), 11=1135(LC 2)

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

3-4=-197/426, 4-5=-518/191, 5-6=-413/180, 6-7=-993/288, 7-8=-991/291, 8-9=-988/283, TOP CHORD

2-21=-304/189

16-17=-175/751, 7-16=-347/170, 12-13=-170/716, 11-12=-170/716

**WEBS** 3-20=-351/209, 4-20=-1361/275, 4-17=-174/1012, 6-17=-739/208, 6-16=-129/519,

13-16=-131/860, 8-16=-135/352, 3-21=-317/375, 9-11=-1173/236

### NOTES-

**BOT CHORD** 

- 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 39-2-4 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 20=472, 11=238,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-9-6 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-2-4 max.): 5-8.

7-16

4-20, 6-17, 8-13, 9-11

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

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

April 27,2022

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

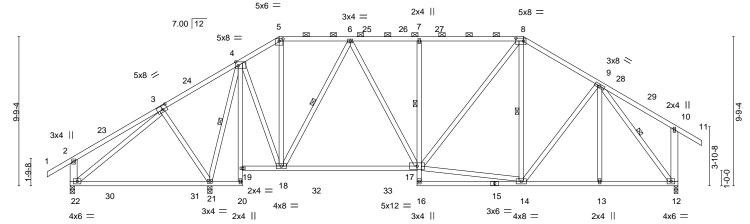


Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545477 3130991 T12 Piggyback Base Job Reference (optional)

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:54 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-IrzNZOkj9\_tHwY6depqUIRsKSVa7h0deWnAO7szMnKd 13-8-3 2-4-11 18-4-1 29-8-3 34-8-0 11-3-8 6-0-0 4-7-14 5-3-8 6-11-10 4-11-13

Scale = 1:75.4



	9-1-12	<sub> </sub> 11-3-8 <sub> </sub> 13-8-3 <sub> </sub>	22-8-8	29-8-3	34-8-0	39-9-8	1
	9-1-12	2-1-12 2-4-11	9-0-6	6-11-10	4-11-13	5-1-8	7
Plate Offsets (X,Y)	[3:0-3-12,0-3-0], [4:0-1-15	,Edge], [5:0-3-0,0-1-12], [8:0	0-6-0,0-2-4]				

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	Vert(LL) 0.19 21-22 >577 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.94	Vert(CT) -0.49 17-18 >747 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.05 12 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 319 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-TOP CHORD 2x4 SP No 2

**BOT CHORD** 

2x4 SP No.2 \*Except\* 4-20,7-16: 2x4 SP No.3

**WEBS** 2x4 SP No.3 \*Except\*

2-22,10-12: 2x6 SP No.2

(size) 21=0-3-8, 22=0-3-8, 12=0-3-0

Max Horz 22=272(LC 11)

Max Uplift 21=-463(LC 9), 22=-94(LC 8), 12=-291(LC 13) Max Grav 21=1912(LC 2), 22=244(LC 20), 12=1231(LC 2)

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

TOP CHORD  $3-4 = -185/440,\ 4-5 = -520/201,\ 5-6 = -415/189,\ 6-7 = -997/306,\ 7-8 = -995/309,\ 8-9 = -995/304,$ 

2-22=-304/189, 10-12=-263/133

BOT CHORD 17-18=-168/753, 7-17=-346/170, 13-14=-153/728, 12-13=-153/728

**WEBS**  $3-21=-354/206,\ 4-21=-1366/267,\ 4-18=-169/1015,\ 6-18=-744/207,\ 6-17=-125/523,$ 

14-17=-109/866, 8-17=-135/348, 3-22=-306/389, 9-12=-1178/212

### NOTES-

REACTIONS.

- 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 41-4-0 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (it=lb) 21=463, 12=291.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-9-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 5-8.

7-17

4-21, 6-18, 8-14, 9-12

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

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

April 27,2022

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



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545478 T13 Piggyback Base 2 3130991 Job Reference (optional)

21-8-3

8-0-0

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

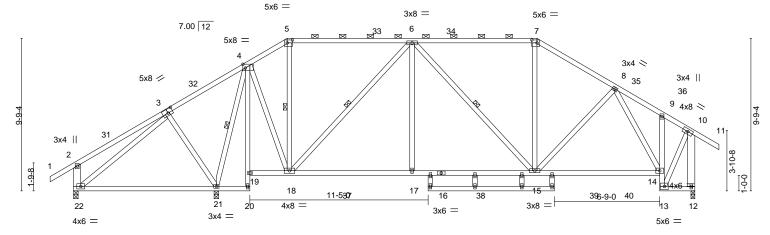
5-3-8

13-8-3 2-4-11

11-3-8 | 13-8-3

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:56 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-ED58\_4lzhb7\_ArG?lEsyNsxbQJIT9tjx\_5fVBkzMnKb 29-8-3 34-8-0 37-6-8 39-9-8 41-4-0 2-10-8 2-3-0 1-6-8 4-11-13 8-0-0

Scale = 1:73.8



	'	9-1-12	' 2-1-12 '	2-4-11	8-0-0	1-0-5	6-	11-11	1-1-5	6-9-0	2-3-0
Plate Offs	ets (X,Y)	[3:0-3-12,0-3-0], [4:0-1-15	5,Edge], [5:0-4	-0,0-2-4], [7:0	)-4-0,0-2-4]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.18 14-1	5 >999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.33 14-1	5 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.14	2 n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 312 lb	FT = 20%

**22-8-**β

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

29-8-3

1 Row at midpt

30-9-8

37-6-8

Structural wood sheathing directly applied or 5-3-14 oc purlins,

4-21, 5-18, 6-18, 6-15

except end verticals, and 2-0-0 oc purlins (5-1-13 max.): 5-7.

Rigid ceiling directly applied or 5-11-14 oc bracing.

39-9-8

21-8-3

LUMBER-

2x4 SP No 2

TOP CHORD BOT CHORD 2x4 SP No.2 \*Except\*

4-20,23-24: 2x4 SP No.3 **WEBS** 2x4 SP No.3 \*Except\*

2-22,10-12: 2x6 SP No.2

6-0-0

REACTIONS. (size) 12=0-3-0, 21=0-3-8, 22=0-3-8

9-1-12

Max Horz 22=272(LC 11)

Max Uplift 12=-290(LC 13), 21=-366(LC 9), 22=-75(LC 12) Max Grav 12=1274(LC 2), 21=2014(LC 2), 22=235(LC 20)

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

TOP CHORD 3-4=-175/521, 4-5=-453/233, 5-6=-364/217, 6-7=-958/313, 7-8=-1159/315,

 $8-9 = -662/193, \ 9-10 = -603/138, \ 2-22 = -317/163, \ 10-12 = -1348/312$ 17-18=-209/1021, 15-17=-209/1021, 14-15=-182/849, 13-14=-723/154

**WEBS** 3-21=-376/206, 4-21=-1448/321, 4-18=-173/1048, 6-18=-972/191, 6-17=0/446,

7-15=-42/330, 3-22=-253/499, 10-13=-186/967, 8-14=-627/138

### NOTES-

BOT CHORD

- 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 41-4-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 12=290, 21=366.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545479 T14 3130991 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:58 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-BcCuPmnDDDNiP9QOtfuQSH0y47\_5dogERP8bGdzMnKZ 6-0-0 13-8-3 21-8-3 29-8-3 34-8-0 37-6-8 39-9-8 41-4-0 2-10-8 2-3-0 1-6-8 3-10-8 6-0-0 7-8-3 8-0-0 8-0-0 Scale = 1:75.2 5x6 = 3x8 =  $5x6 = _{2x4}$ 7.00 12 4 5 6 26 3x4 > 8 3x4 || 5x8 / 27 24 28 3 9 4x8 <> 9-9-4 10 11 2x4 II 1-9-8 우 14 4x6 = 5x8 = ⊠ 21 30 19 31 32 22 20 18 17 16 13 12 2x4 \\ 3x6 =4x8 = 2x4 II 4x8 = 4x6 =2x4 II 6x8 = 2x4 39-9-8 9-1-12 13-8-3 21-8-3 29-8-3 30-9-8 37-6-8 9-1-12 4-6-7 8-0-0 6-9-0 8-0-0 2-3-0 Plate Offsets (X,Y)--[3:0-3-12,0-3-0], [4:0-4-0,0-2-4], [6:0-4-0,0-2-4], [15:0-2-8,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

0.22 21-22

-0.33 21-22

12

1 Row at midpt

1 Row at midpt

0.15

>491

>328

n/a

240

180

n/a

Structural wood sheathing directly applied or 5-1-9 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-2-13 max.): 4-6.

7-15

Rigid ceiling directly applied or 5-7-1 oc bracing. Except:

MT20

Weight: 308 lb

3-21, 4-20, 5-20, 5-17, 6-17

244/190

FT = 20%

LUMBER-

REACTIONS.

BOT CHORD

**TCLL** 

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2

20.0

7.0

0.0

10.0

**BOT CHORD** 2x4 SP No.2 \*Except\* 7-16: 2x4 SP No.3

**WEBS** 2x4 SP No.3 \*Except\*

2-22,10-12: 2x6 SP No.2

(size) 12=0-3-0, 21=0-3-8, 22=0-3-8

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Horz 22=272(LC 11)

Max Uplift 12=-292(LC 13), 21=-307(LC 9), 22=-133(LC 12) Max Grav 12=1354(LC 2), 21=1543(LC 2), 22=524(LC 23)

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

TOP CHORD  $3-4=-791/218,\ 4-5=-604/245,\ 5-6=-954/304,\ 6-7=-1161/341,\ 7-8=-1264/321,$ 

8-9=-690/200, 9-10=-624/139, 2-22=-260/180, 10-12=-1429/315 21-22=-189/336, 20-21=-613/158, 18-20=-241/1109, 17-18=-241/1109, 14-15=-180/925,

1.25

1.25

YES

TC

вс

WB

Matrix-MS

0.77

0.81

0.62

13-14=-784/158

**WEBS** 3-21=-1522/397, 3-20=-185/1426, 5-20=-822/204, 5-18=0/480, 5-17=-310/150,

6-17=-428/145, 15-17=-167/1363, 6-15=-169/696, 8-15=-87/253, 3-22=-287/62,

10-13=-190/1038, 8-14=-719/129

### 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 41-4-0 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=292, 21=307, 22=133,
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545480 3130991 T15 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:16:59 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-fomGc5nr\_WVZ1J?aRMPf?VZ6kWlzM9XNg3t9o3zMnKY

21-8-3

8-0-0

41-4-0 1-6-8

39-9-8

5-1-8

34-8-0

4-11-13

Structural wood sheathing directly applied or 5-3-11 oc purlins,

4-16, 5-16, 5-12, 7-10

except end verticals, and 2-0-0 oc purlins (5-1-0 max.): 4-6.

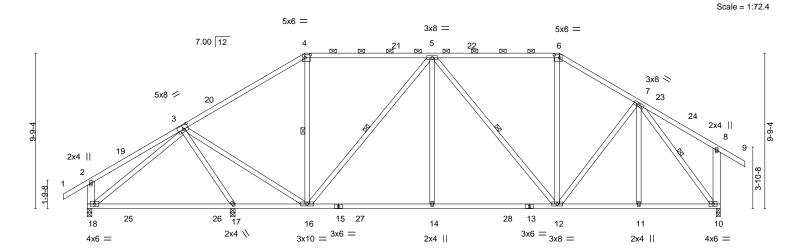
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 16-17.

1 Row at midpt

29-8-3

8-0-0



li i	9-1-12	13-8-3	1 21-8-3 I	29-8-3	1 34-8-0	1 39-9-8	1
	9-1-12	4-6-7	8-0-0	8-0-0	4-11-13	5-1-8	٦
Plate Offsets (X,)		4], [6:0-4-0,0-2-4]					

LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.22	17-18	>491	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.33	17-18	>328	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 282 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS

2-18,8-10: 2x6 SP No.2

(size) 17=0-3-8, 18=0-3-8, 10=0-3-0

Max Horz 18=272(LC 11)

6-0-0 6-0-0

13-8-3

7-8-3

Max Uplift 17=-304(LC 9), 18=-134(LC 12), 10=-296(LC 13) Max Grav 17=1454(LC 2), 18=573(LC 25), 10=1374(LC 2)

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

TOP CHORD 3-4=-854/219, 4-5=-659/246, 5-6=-969/308, 6-7=-1172/310, 2-18=-262/181,

8-10=-265/134

BOT CHORD 17-18=-191/408, 16-17=-491/154, 14-16=-243/1149, 12-14=-243/1149, 11-12=-156/833, 10-11=-156/833

 $3-17=-1416/396,\ 3-16=-181/1329,\ 5-16=-799/204,\ 5-14=0/489,\ 5-12=-346/155,$ 

6-12=-52/325, 7-12=-125/267, 3-18=-364/65, 7-10=-1351/217

### NOTES-

**WEBS** 

- 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-8-3, Exterior(2R) 29-8-3 to 35-3-11, Interior(1) 35-3-11 to 41-4-0 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 17=304, 18=134, 10=296
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

April 27,2022

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

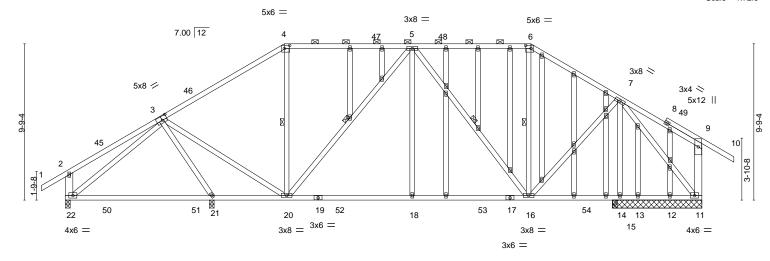
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-3NSPE7qkGRu8umj96VzMd7BeakMvZYOpM16pPOzMnKV 21-8-3 29-1-4 39-9-8 41-4-0 6-0-0 13-8-3 34-8-0 1-6-8 6-0-0 7-8-3 8-0-0 7-5-1 5-6-12 5-1-8

Scale = 1:72.0



1	9-1-12	13-8-3	21-8-3	29-1-4	34-6-0	34,8-0	39-9-8	1
	9-1-12	4-6-7	8-0-0	7-5-1	5-4-12	0-2-0	5-1-8	1
Plate Offsets (X,Y)	[3:0-3-12,0-3-0], [4:0-4-0,0-	2-4], [6:0-4-0,0-2-4]						

LOADIN	G (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)	0.22 21-22	>490	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.76	Vert(CT)	-0.33 21-22	>324	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.02 1	l n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 373 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

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

2x4 SP No.3 \*Except\* WFBS

2-22,9-11: 2x6 SP No.2 **OTHERS** 2x4 SP No.3

All bearings 5-7-0 except (jt=length) 21=0-3-8, 22=0-3-8, 15=0-3-8.

Max Uplift All uplift 100 lb or less at joint(s) except 21=-283(LC 9), 14=-292(LC 13), 22=-136(LC 12), 11=-116(LC

13)

(lb) - Max Horz 22=270(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 12, 13 except 21=1214(LC 2), 14=831(LC 1), 22=591(LC 2), 11=319(LC 24), 15=496(LC 18)

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

TOP CHORD 3-4=-753/209, 4-5=-571/238, 5-6=-552/234, 6-7=-704/221, 2-22=-264/181,

9-11=-262/150

**BOT CHORD** 21-22=-191/427, 20-21=-335/137, 18-20=-217/871, 16-18=-217/871

**WEBS** 3-21=-1133/367, 3-20=-154/1017, 5-20=-510/170, 5-18=0/470, 5-16=-556/169,

7-16=-155/788, 7-14=-1116/270, 3-22=-385/67

### NOTES-

REACTIONS.

- 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) -1-6-0 to 2-5-12, Interior(1) 2-5-12 to 13-8-3, Exterior(2R) 13-8-3 to 19-3-11, Interior(1) 19-3-11 to 29-1-4, Exterior(2R) 29-1-4 to 34-8-0, Interior(1) 34-8-0 to 41-9-8 zone; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 21, 292 lb uplift at joint 14, 136 lb uplift at joint 22 and 116 lb uplift at joint 11.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

4-20, 5-20, 5-16, 6-16

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

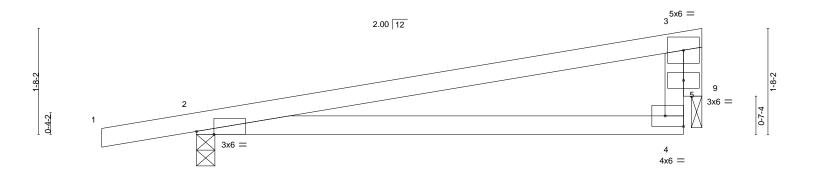
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 27,2022

Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES. T27545482 MONO TRUSS 15 3130991 T16 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:02 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-3NSPE7qkGRu8umj96VzMd7BggkODZfmpM16pPOzMnKV

8-0-0

Scale = 1:18.2



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

1 late Of	13613 (7, 1)	[2.0-3-3,Luge], [4.Luge,0	-2-0]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.27	4-8	>351	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	0.23	4-8	>413	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MR						Weight: 29 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3 WFBS

**OTHERS** 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=0-2-0

Max Horz 2=55(LC 8)

-1-6-0

1-6-0

Max Uplift 2=-202(LC 8), 9=-130(LC 8) Max Grav 2=381(LC 1), 9=260(LC 1)

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

TOP CHORD 2-3=-304/414, 4-5=-252/149, 3-5=-252/149

**BOT CHORD** 2-4=-445/284 **WEBS** 3-9=-317/481

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-5-10, Interior(1) 1-5-10 to 7-6-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 2 and 130 lb uplift at joint 9.



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

Rigid ceiling directly applied or 6-6-5 oc bracing.

except end verticals.

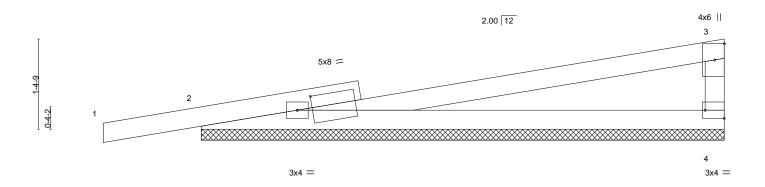
MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 27,2022



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545483 2 3130991 T16G Monopitch Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:03 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-XZ0nSTrM1l0?VwlLgCUb9Lkqr8kclCfzbhrMxrzMnKU -1-6-0 8-0-0

Scale = 1:17.6



8-0-0

Plate Off	rsets (X,Y)	[2:0-2-12,0-2-2], [4:Edge,0	)-1-8]									
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	-0.02	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	0.06	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	PI2014	Matri	x-S	, ,					Weight: 29 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

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

Max Horz 2=46(LC 8)

1-6-0

Max Uplift 2=-138(LC 8), 4=-78(LC 12) Max Grav 2=379(LC 1), 4=283(LC 1)

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

TOP CHORD 2-3=-283/174 **BOT CHORD** 2-4=-207/254

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 7-10-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 2 and 78 lb uplift at joint 4.



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

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

except end verticals.

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

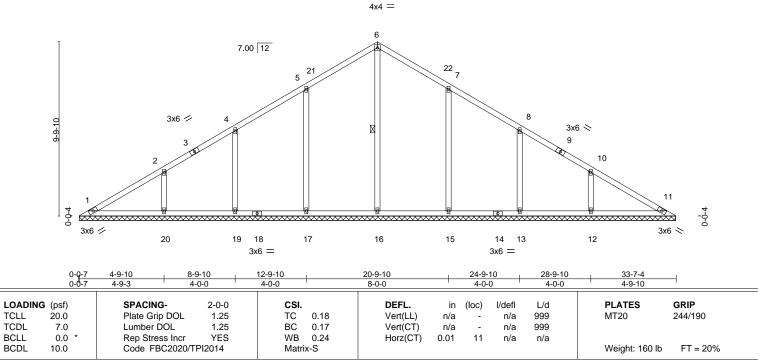
April 27,2022



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545484 3130991 V01 Valley Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:05 2022 Page 1

ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-Uy7Xt9scZMGjlESkndW3EmplSxXmm3QG2\_KT0jzMnKS 4-9-10 8-9-10 12-9-10 16-9-10 20-9-10 24-9-10 28-9-10 33-7-4 4-9-10 4-0-0 4-0-0 4-0-0 4-0-0 4-0-0 4-0-0 4-9-10

Scale = 1:64.8



LUMBER-

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

BRACING-

TOP CHORD BOT CHORD WFBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-16

REACTIONS. All bearings 33-6-7.

Max Horz 1=-209(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 17=-139(LC 12), 19=-118(LC 12), 20=-151(LC 12),

15=-139(LC 13), 13=-118(LC 13), 12=-150(LC 13)

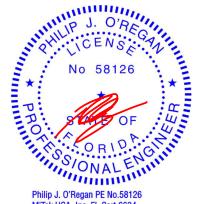
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=383(LC 22), 17=452(LC 19), 19=373(LC 19), 20=430(LC 19), 15=452(LC 20), 13=373(LC 20), 12=430(LC 20)

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

**WEBS** 2-20=-263/171, 10-12=-263/171

### 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) 0-6-8 to 3-10-12, Interior(1) 3-10-12 to 16-9-10, Exterior(2R) 16-9-10 to 20-1-14, Interior(1) 20-1-14 to 33-0-12 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 17=139, 19=118, 20=151, 15=139, 13=118, 12=150.



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

April 27,2022



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545485 3130991 V02 Valley Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:06 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-y8hw4VtEKgOaMO1wLK2InzMQvLqcVW\_PHe40Y9zMnKR 10-2-12 14-2-12 18-2-12 22-2-12

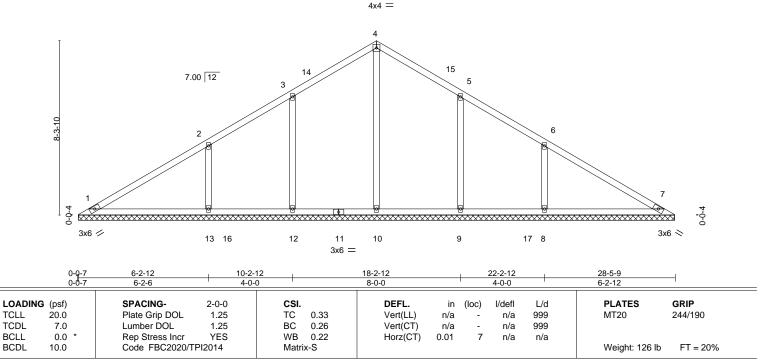
4-0-0

4-0-0

6-2-12

4-0-0

Scale = 1:54.9



LUMBER-

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

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 28-4-11.

Max Horz 1=176(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-117(LC 12), 13=-185(LC 12), 9=-117(LC 13),

4-0-0

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=388(LC 22), 12=383(LC 19), 13=552(LC 19),

9=383(LC 20), 8=552(LC 20)

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

**WEBS** 2-13=-322/208, 6-8=-322/208

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 14-2-12, Exterior(2R) 14-2-12 to 17-2-12, Interior(1) 17-2-12 to 27-11-1 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=117, 13=185, 9=117, 8=185.



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

April 27,2022

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



Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545486 3130991 V03 Valley Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:07 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-QLFIHqus5\_WR\_Yc7v2ZXKBueGlCBE\_ZZWlpa4czMnKQ 7-7-15 15-7-15

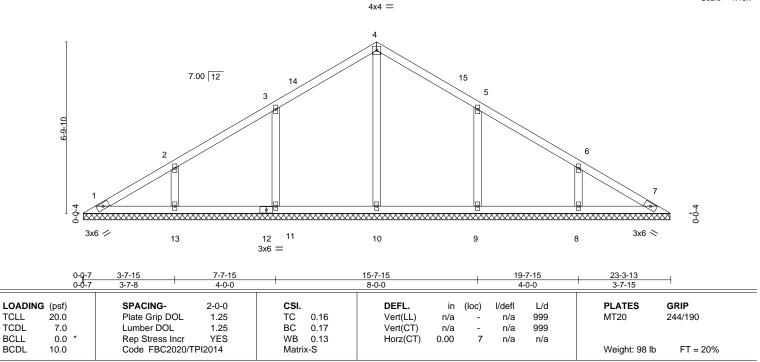
4-0-0

11-7-15

4-0-0

4-0-0

Scale = 1:45.7



LUMBER-

**OTHERS** 

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

19-7-15

4-0-0

23-3-13

3-7-15

REACTIONS. All bearings 23-3-0.

Max Horz 1=143(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 11=-139(LC 12), 13=-123(LC 12), 9=-139(LC 13),

8=-123(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=363(LC 19), 11=414(LC 19), 13=353(LC 19), 9=414(LC 20), 8=353(LC 20)

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 Exterior(2E) 0-6-8 to 3-7-15, Interior(1) 3-7-15 to 11-7-15, Exterior(2R) 11-7-15 to 14-7-15, Interior(1) 14-7-15 to 22-9-5 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 11=139, 13=123, 9=139, 8=123.



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

April 27,2022

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

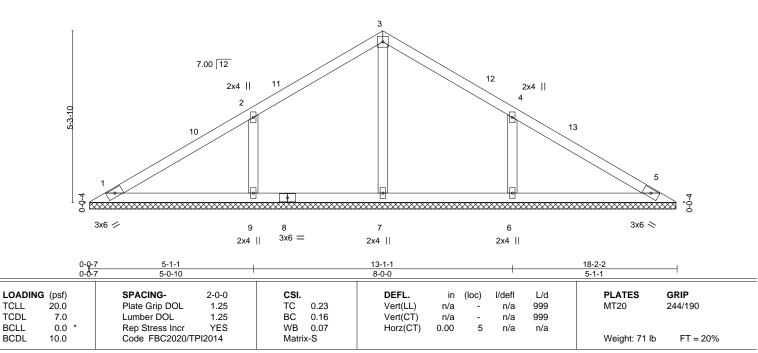


Job Truss Truss Type Qty Ply IC CONST. - MITCHELLE RES T27545487 3130991 V04 Valley Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:08 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-uXpgVAuVsHeHchBJSl4msORox9YdzRlikyZ7d2zMnKP 18-2-2

4x4 =

4-0-0

Scale = 1:35.6



LUMBER-

**OTHERS** 

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

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 18-1-4.

Max Horz 1=-110(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-167(LC 12), 6=-167(LC 13) All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=395(LC 19), 6=394(LC 20)

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

**WEBS** 2-9=-287/189, 4-6=-287/189

### 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 9-1-1, Exterior(2R) 9-1-1 to 12-1-1, Interior(1) 12-1-1 to 17-7-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=167, 6=167.



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

April 27,2022



IC CONST. - MITCHELLE RES. Job Truss Truss Type Qty Ply T27545488 V05 **GABLE** 3130991 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 26 17:17:09 2022 Page 1 ID:Q7RwmdgDYh8qcxUfiYMxEEzke8Z-MjN2iWv7dbm8DrmV0Tb?Pc\_zEYv\_ivgrzclh9UzMnKO 3-11-15 3-11-15

Scale = 1:21.2

3-11-15

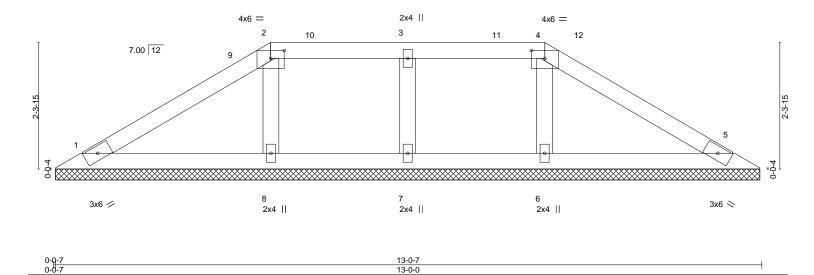


Plate Offsets (X,Y)	[2:0-3-0,0-1-12], [4:0-3-0,0-1-12]		1000	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         YES	CSI. TC 0.13 BC 0.09 WB 0.03	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         5         n/a         n/a	<b>PLATES GRIP</b> MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S		Weight: 46 lb FT = 20%

LUMBER-

REACTIONS.

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

All bearings 12-11-9. (lb) -Max Horz 1=-45(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7, 6, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6, 8

**BRACING-**

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

> 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.

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

- 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 3-11-15, Exterior(2R) 3-11-15 to 8-2-13, Interior(1) 8-2-13 to 9-0-8, Exterior(2E) 9-0-8 to 12-5-15 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) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7, 6, 8.



6904 Parke East Blvd. Tampa FL 33610

April 27,2022

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

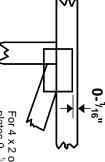


### Symbols

## PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0-  $\frac{1}{16}$  from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

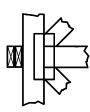
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

### 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**



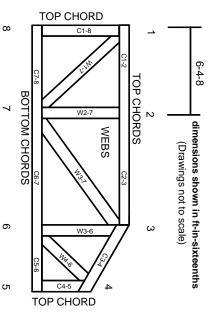
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

## **Numbering System**



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

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

### PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

Ģ

- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 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.