



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

RE: ZEDICKS -

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

**Site Information:**

Customer Info: BRYAN ZECHER CONSTRUCTION Project Name: DICKS RESIDENCE Model:  
Lot/Block: Subdivision:  
Address: 463 SW CR240  
City: LAKE CITY State: FL

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

Name: License #:  
Address:  
City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4  
Wind Code: N/A Wind Speed: 130 mph  
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 82 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	T22707749	A	2/3/21	15	T22707763	A10ET	2/3/21
2	T22707750	A1	2/3/21	16	T22707764	A11	2/3/21
3	T22707751	A1ET	2/3/21	17	T22707765	A12	2/3/21
4	T22707752	A2	2/3/21	18	T22707766	A13	2/3/21
5	T22707753	A2ET	2/3/21	19	T22707767	A13ET	2/3/21
6	T22707754	A3	2/3/21	20	T22707768	A14	2/3/21
7	T22707755	A4	2/3/21	21	T22707769	A15	2/3/21
8	T22707756	A5	2/3/21	22	T22707770	A15ET	2/3/21
9	T22707757	A5ET	2/3/21	23	T22707771	A16	2/3/21
10	T22707758	A6	2/3/21	24	T22707772	A17	2/3/21
11	T22707759	A7	2/3/21	25	T22707773	B1	2/3/21
12	T22707760	A8	2/3/21	26	T22707774	B2	2/3/21
13	T22707761	A9	2/3/21	27	T22707775	B3	2/3/21
14	T22707762	A10	2/3/21	28	T22707776	B4	2/3/21



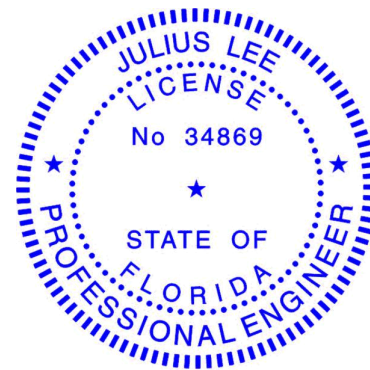
This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by  
MiTek USA, Inc. under my direct supervision based on the parameters  
provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

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



Julius Lee PE No.34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

**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.

February 3, 2021

Lee, Julius

1 of 2



RE: ZEDICKS -

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

**Site Information:**

Customer Info: BRYAN ZECHER CONSTRUCTION Project Name: DICKS RESIDENCE Model:  
Lot/Block: Subdivision:  
Address: 463 SW CR240  
City: LAKE CITY State: FL

No.	Seal#	Truss Name	Date
29	T22707777	B5	2/3/21
30	T22707778	B6	2/3/21
31	T22707779	B7	2/3/21
32	T22707780	B8	2/3/21
33	T22707781	BET	2/3/21
34	T22707782	CET	2/3/21
35	T22707783	CJ09	2/3/21
36	T22707784	CJ09A	2/3/21
37	T22707785	D1	2/3/21
38	T22707786	D2	2/3/21
39	T22707787	D3	2/3/21
40	T22707788	D4	2/3/21
41	T22707789	D5	2/3/21
42	T22707790	D6	2/3/21
43	T22707791	D7	2/3/21
44	T22707792	DET	2/3/21
45	T22707793	EET	2/3/21
46	T22707794	EJ7	2/3/21
47	T22707795	EJ7GT	2/3/21
48	T22707796	F	2/3/21
49	T22707797	F1	2/3/21
50	T22707798	F1ET	2/3/21
51	T22707799	FET	2/3/21
52	T22707800	G	2/3/21
53	T22707801	GGT	2/3/21
54	T22707802	H	2/3/21
55	T22707803	H1	2/3/21
56	T22707804	H2	2/3/21
57	T22707805	HET	2/3/21
58	T22707806	J01	2/3/21
59	T22707807	J03	2/3/21
60	T22707808	J03A	2/3/21
61	T22707809	J05	2/3/21
62	T22707810	J05A	2/3/21
63	T22707811	K1	2/3/21
64	T22707812	K2	2/3/21
65	T22707813	K3	2/3/21
66	T22707814	K4	2/3/21
67	T22707815	K5	2/3/21
68	T22707816	K6	2/3/21
69	T22707817	K7	2/3/21
70	T22707818	K8	2/3/21
71	T22707819	K9	2/3/21
72	T22707820	K10	2/3/21
73	T22707821	K11	2/3/21
74	T22707822	L1	2/3/21
75	T22707823	M	2/3/21
76	T22707824	MET	2/3/21
77	T22707825	PB1	2/3/21
78	T22707826	PB1ET	2/3/21
79	T22707827	PB2	2/3/21
80	T22707828	PB3	2/3/21
81	T22707829	PB4	2/3/21
82	T22707830	PB4ET	2/3/21

Job	Truss	Truss Type	Qty	Ply	T22707749
ZEDICKS	A	Piggyback Base	6	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-4mDFqBG7wYEc4sr32ZkL9lbOfvohQDN4a9ji3zov7Q

2-0-8 5-2-13 11-2-4 17-1-12 23-1-3 31-0-13 35-3-9 39-11-4 45-2-0 46-6-0  
2-0-8 3-2-5 5-11-7 5-11-7 5-11-7 7-11-10 4-2-12 4-7-11 5-2-12 1-4-0

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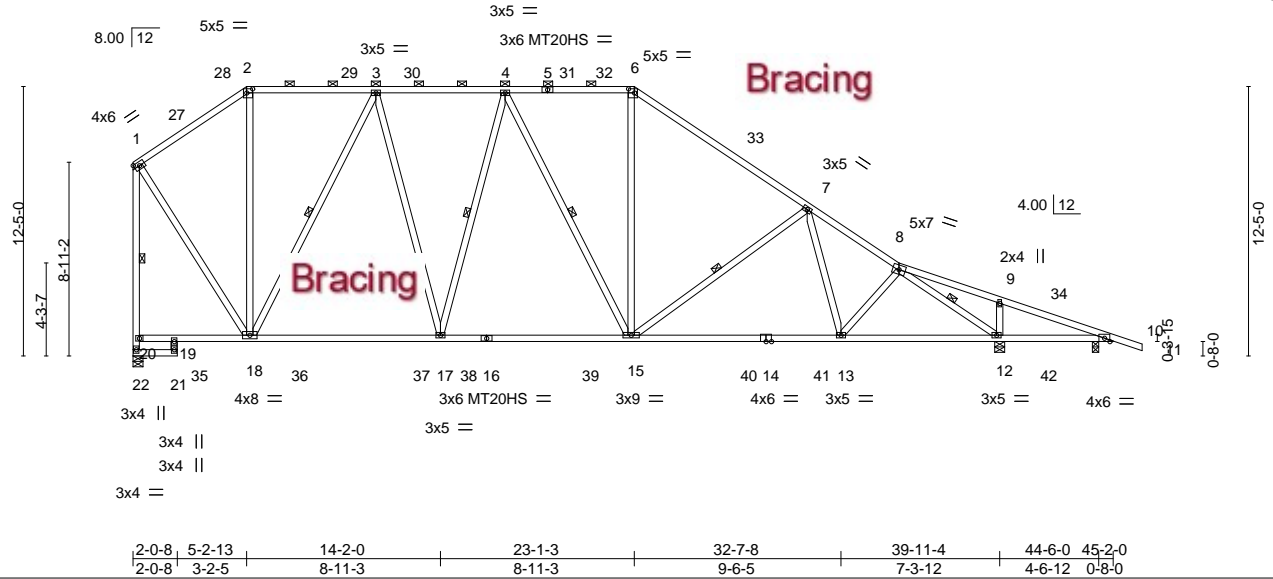


Plate Offsets (X,Y)-- [2:0-3-4,0-2-4], [6:0-3-4,0-2-4]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.26 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.49 13-15	>981	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.07 13-15	>999	240	Weight: 317 lb	FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2 *Except*	2-0-0 oc purlins (4-5-3 max.): 2-6.
14-16: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-18, 4-17, 4-15, 7-15, 8-12, 1-22

**REACTIONS.** (size) 22=0-5-8, 12=0-5-8, 10=0-3-8  
Max Horz 22=-250(LC 12)  
Max Uplift 22=-122(LC 12), 12=-129(LC 12), 10=-113(LC 12)  
Max Grav 22=1892(LC 18), 12=2350(LC 18), 10=84(LC 22)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-973/194, 2-3=-773/217, 3-4=-1481/331, 4-6=-1604/384, 6-7=-2010/361,  
7-8=-2471/338, 8-9=-69/660, 9-10=-130/698, 20-22=-1826/286, 1-20=-1759/290  
BOT CHORD 18-19=-142/303, 17-18=0/1350, 15-17=0/1587, 13-15=-132/1979, 12-13=-159/1932,  
10-12=-617/181  
WEBS 2-18=0/282, 3-18=-1209/226, 3-17=-51/784, 4-17=-374/155, 6-15=0/681, 7-15=-581/229,  
7-13=0/282, 8-12=-3135/357, 9-12=-351/149, 1-18=-155/1379

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-7-15, Interior(1) 4-7-15 to 5-2-13, Exterior(2R) 5-2-13 to 9-9-0, Interior(1) 9-9-0 to 23-1-3, Exterior(2R) 23-1-3 to 27-7-6, Interior(1) 27-7-6 to 46-6-0 zone; cantilever right exposed ; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=122, 12=129, 10=113.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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

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

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



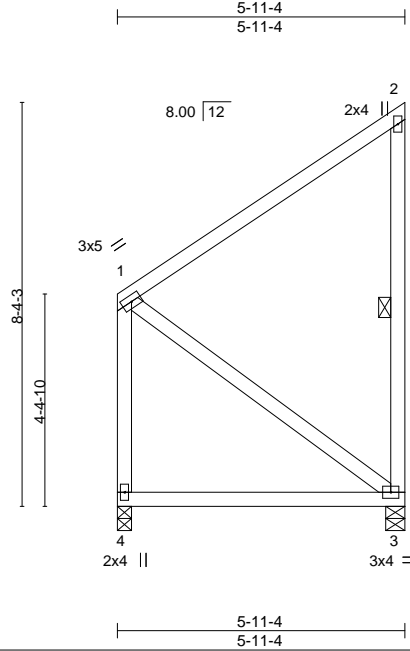
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707750
ZEDICKS	A1	Monopitch	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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Scale: 1/4"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.06	3-4	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.12	3-4	>555	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.00	4	****	240	
								Weight: 47 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 2-3

#### REACTIONS.

(size) 4=0-3-8, 3=0-4-12  
Max Horz 4=109(LC 12)  
Max Uplift 3=130(LC 12)  
Max Grav 4=226(LC 1), 3=251(LC 17)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 1-3=144/262

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-9-8 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=130.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



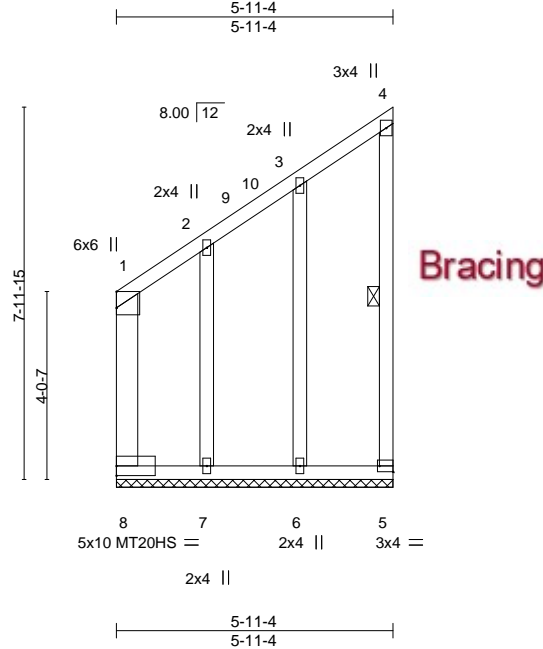
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A1ET	Monopitch Supported Gable	1	1	T22707751

SANTA FE TRUSS COMPANY INC, BELL FL

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Scale = 1:49.5

Plate Offsets (X,Y)-- [5:Edge,0-1-8]												
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d				<b>PLATES</b> <b>GRIP</b>		
TCLL	20.0	Plate Grip DOL	1.25	TC	0.89	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	n/a	-	n/a	999	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-R						Weight: 56 lb FT = 15%		

Job	Truss	Truss Type	Qty	Ply	T22707752
ZEDICKS	A2	Piggyback Base	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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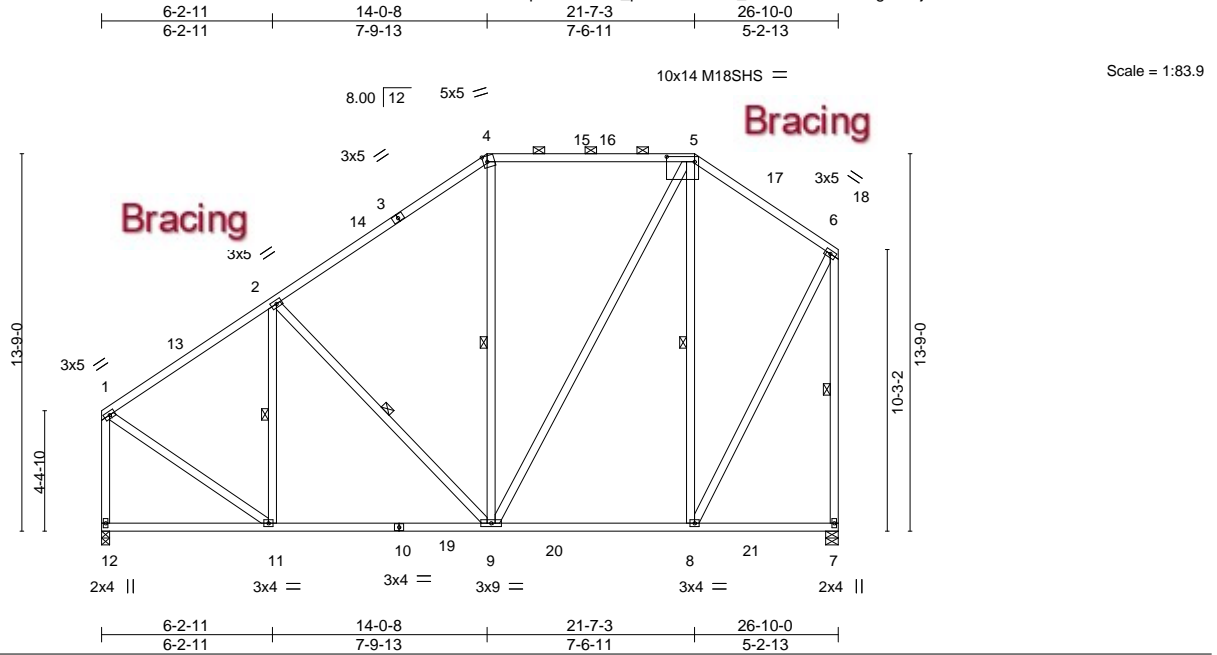


Plate Offsets (X,Y)-- [4:0-1-12,Edge], [5:1-0-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL)	-0.12 9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.65	Vert(CT)	-0.20 9-11	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT)	0.01 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.02 9	>999	240		
							Weight: 223 lb	FT = 15%

#### LUMBER-

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

#### REACTIONS.

(size) 12=0-3-8, 7=0-5-8  
Max Horz 12=169(LC 12)  
Max Uplift 12=-19(LC 12), 7=-110(LC 12)  
Max Grav 12=1241(LC 17), 7=1280(LC 17)

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

TOP CHORD 1-2=-997/62, 2-4=-891/134, 4-5=-666/161, 5-6=-562/103, 1-12=-1159/47,  
6-7=-1182/132  
BOT CHORD 9-11=-156/860, 8-9=-25/425  
WEBS 2-11=-283/80, 5-9=-77/550, 5-8=-532/129, 1-11=0/892, 6-8=-53/920

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-0-8, Exterior(2R) 14-0-8 to 18-3-7, Interior(1) 18-3-7 to 21-7-3, Exterior(2R) 21-7-3 to 25-10-2, Interior(1) 25-10-2 to 26-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=110.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A2ET	Piggyback Base Supported Gable	1	1	T22707753

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:16 2021 Page 1  
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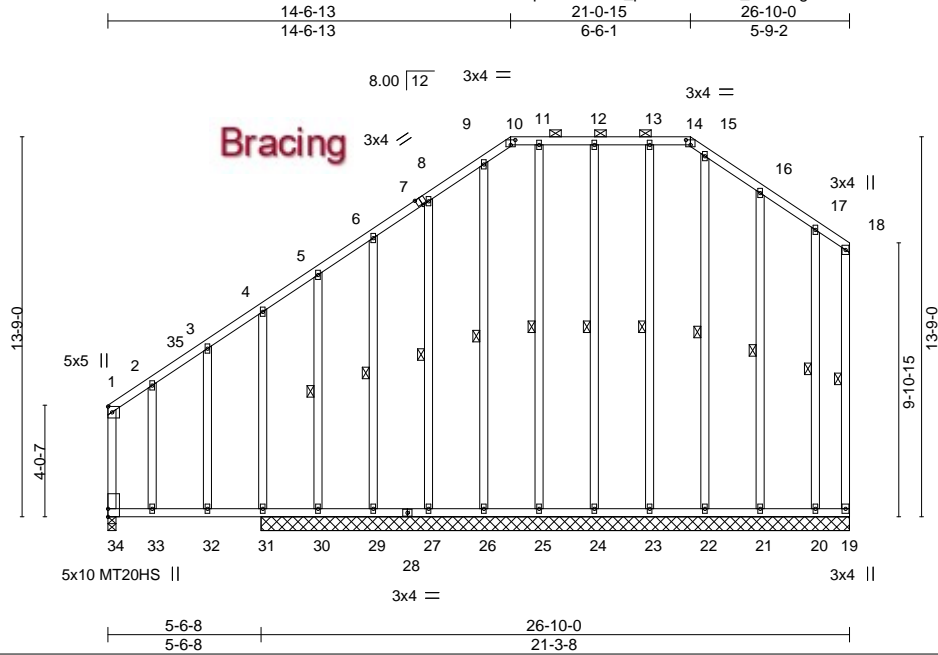


Plate Offsets (X,Y)-- [7:0-2-0,Edge], [10:0-2-0,0-2-3], [14:0-2-0,0-2-3]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	0.13 32-33	>523	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.69	Vert(CT)	-0.12 32-33	>554	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	-0.00 34	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-R						
								Weight: 305 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals, and 2'-0" oc purlins (6'-0" oc max.): 10'-14'.  
BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.  
WEBS 1 Row at midpt 18-19, 15-22, 13-23, 12-24, 11-25, 9-26, 8-27, 6-29, 5-30, 16-21, 17-20

#### REACTIONS.

All bearings 21-3-8 except (jt=length) 34=0-3-8.  
(lb) - Max Horz 31=169(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 34, 23, 24, 27, 29, 21 except 19=201(LC 12), 30=130(LC 10), 31=381(LC 12), 20=129(LC 10)  
Max Grav All reactions 250 lb or less at joint(s) 19, 22, 23, 24, 25, 26, 27, 29, 30, 21, 20 except 34=280(LC 18), 31=639(LC 17)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=254/163  
WEBS 4-31=325/268

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 14-6-13, Corner(3R) 14-6-13 to 17-7-3, Exterior(2N) 17-7-3 to 21-0-15, Corner(3R) 21-0-15 to 24-0-15, Exterior(2N) 24-0-15 to 26-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 23, 24, 27, 29, 21 except (jt=lb) 19=201, 30=130, 31=381, 20=129.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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



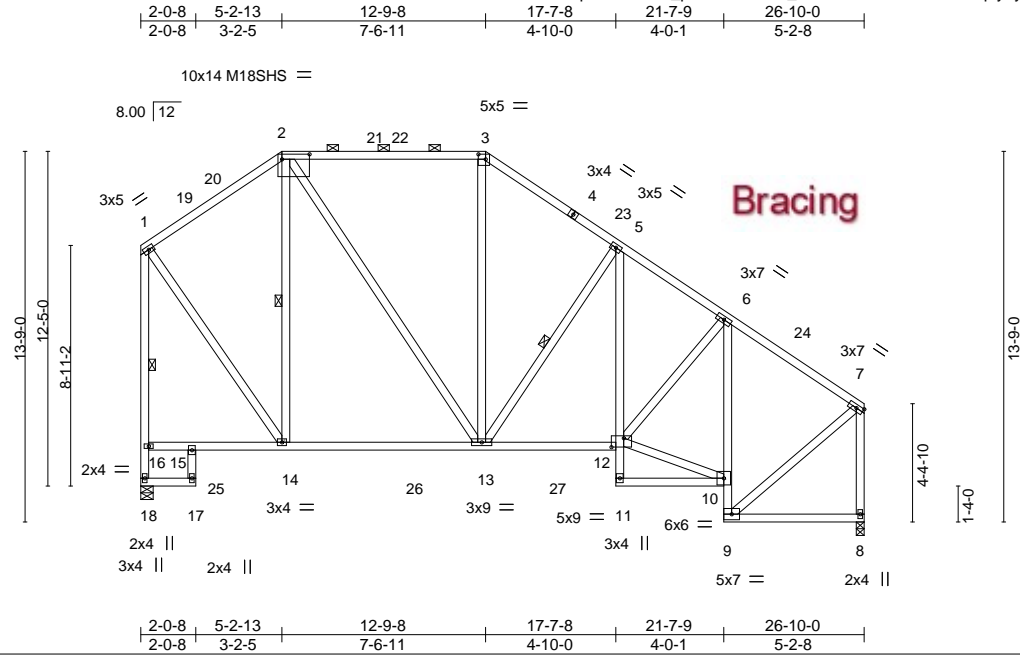
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707754
ZEDICKS	A3	Piggyback Base	4	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x70AHY\_pSkPQEHezG\_Er-ZEI2bLUQh4VFnrEI6quy3y1fDw4Lvkq0DOWgLOzov78



Scale = 1:85.5

Plate Offsets (X,Y)--		[2:1-0-4,0-2-4], [3:0-3-4,0-2-4], [12:0-5-8,0-4-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b> 2-0-0		<b>CSI.</b>		<b>DEFL.</b> in (loc) l/defl L/d		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.12 10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.22 10-11	>999	240	M18SHS	244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.26 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS		Wind(LL)	0.06 10-11	>999	240	Weight: 232 lb	FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-8-2 max.): 2-3.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
6-9: 2x4 SP No.1	WEBS 1 Row at midpt 2-14, 5-13, 1-18
WEBS 2x4 SP No.2	

<b>REACTIONS.</b>	(size) 18=0-5-8, 8=0-3-8
	Max Horz 18=-169(LC 12)
	Max Uplift 18=-101(LC 12), 8=-27(LC 12)
	Max Grav 18=1307(LC 18), 8=1223(LC 18)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-675/77, 2-3=-800/145, 3-5=-1005/133, 5-6=-1288/104, 6-7=-926/63, 16-18=-1231/65, 1-16=-1149/81, 7-8=-1201/55
BOT CHORD	13-14=0/589, 12-13=0/999, 5-12=-5/307, 9-10=-426/25, 6-10=-714/47
WEBS	2-14=-470/145, 2-13=-77/551, 5-13=-467/114, 10-12=0/723, 6-12=0/384, 1-14=-22/888, 7-9=0/892

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-2-13, Exterior(2R) 5-2-13 to 9-5-12, Interior(1) 9-5-12 to 12-9-8, Exterior(2R) 12-9-8 to 17-0-7, Interior(1) 17-0-7 to 26-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 18=101.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	T22707755
ZEDICKS	A4	Piggyback Base	1	1	Job Reference (optional)

SANTA FE TRUSS COMPANY INC,

BELL FL

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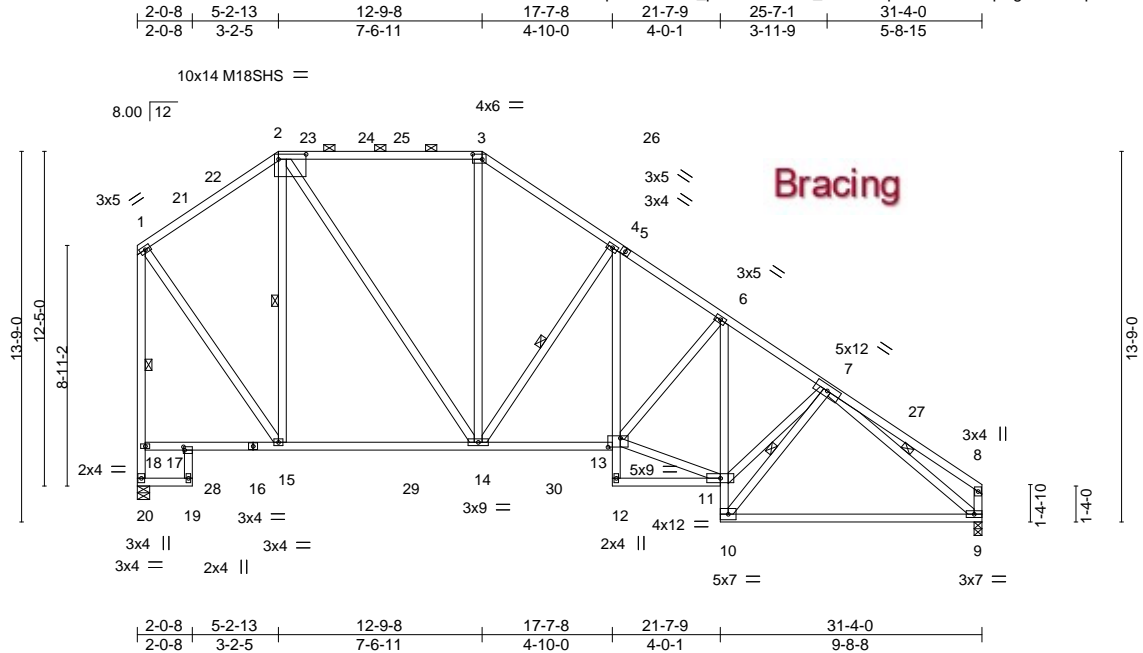


Plate Offsets (X,Y)-- [2:1-0-4,0-2-4], [3:0-4-4,0-2-4], [13:0-5-8,0-4-0], [17:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.79	Vert(LL) -0.20	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.75	Vert(CT) -0.41	9-10	>903	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.14	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL) 0.06	14-15	>999	240	Weight: 259 lb	FT = 15%

#### LUMBER-

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

#### REACTIONS.

(size) 20=0-5-8, 9=0-3-8  
Max Horz 20=-256(LC 12)  
Max Uplift 20=-110(LC 12), 9=-40(LC 12)  
Max Grav 20=1518(LC 18), 9=1436(LC 18)

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

TOP CHORD 1-2=-789/67, 2-3=-1042/146, 3-4=-1294/135, 4-6=-1888/106, 6-7=-1905/116,

7-8=-447/55, 18-20=-1427/51, 1-18=-1351/70, 8-9=-369/63

BOT CHORD 15-17=-174/264, 14-15=0/704, 13-14=0/1485, 4-13=-5/852, 10-11=-23/1442,  
9-10=-18/1321

WEBS 2-15=-592/164, 2-14=-91/809, 3-14=0/360, 4-14=-938/121, 11-13=0/1549, 7-11=0/1610,  
7-10=-1639/102, 1-15=-10/1058, 7-9=-1371/50

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-6, Interior(1) 3-3-6 to 5-2-13, Exterior(2R) 5-2-13 to 9-8-0, Interior(1) 9-8-0 to 12-9-8, Exterior(2R) 12-9-8 to 17-2-11, Interior(1) 17-2-11 to 31-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 20=110.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A5	Piggyback Base	1	1	T22070756

SANTA FE TRUSS COMPANY INC,

BELL FL

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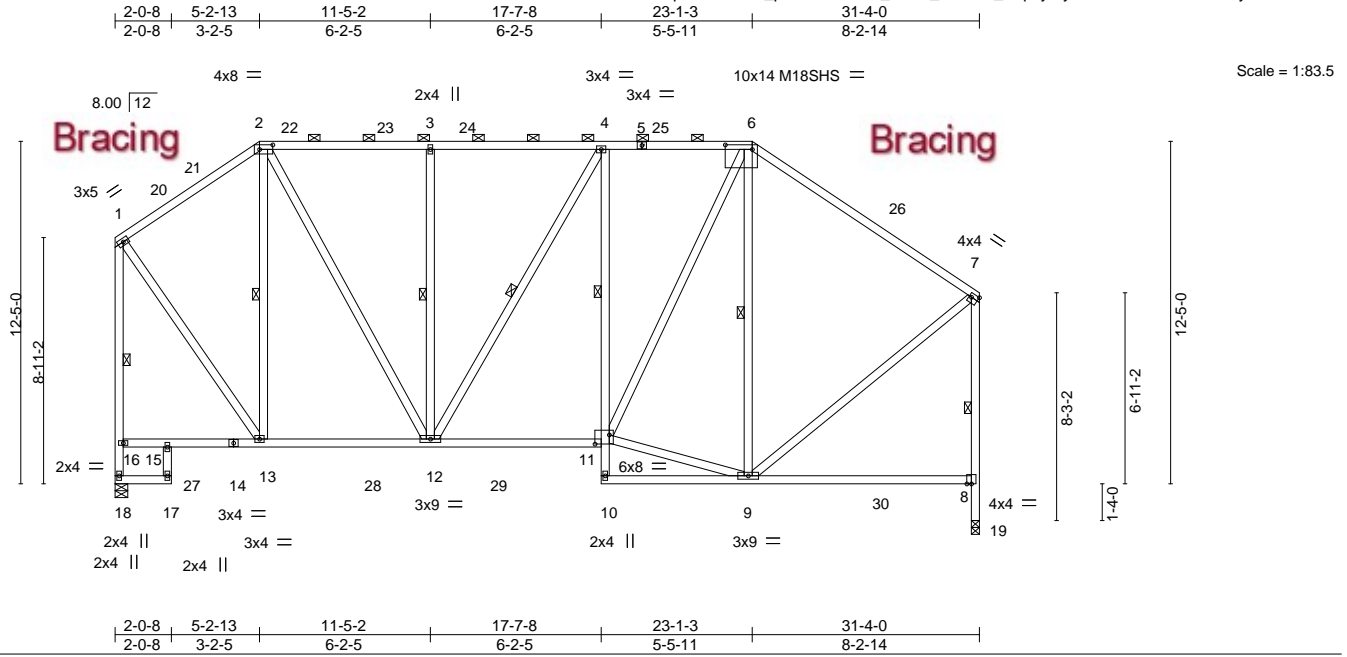


Plate Offsets (X,Y)-- [2:0-5-12,0-2-0], [6:0-11-12,0-2-0], [7:Edge,0-1-12], [11:0-6-4,0-4-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.75	Vert(LL)	-0.17	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.58	Vert(CT)	-0.29	8-9	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES		WB 0.36	Horz(CT)	0.15	19	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.03	4	>999	240	Weight: 281 lb	FT = 15%

**LUMBER-**

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

**REACTIONS.**

(size) 18=0-5-8, 19=0-3-8  
 Max Horz 18=93(LC 11)  
 Max Uplift 18=-89(LC 12), 19=-61(LC 12)  
 Max Grav 18=1499(LC 17), 19=1454(LC 18)

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

TOP CHORD 1-2=-803/91, 2-3=-985/143, 3-4=-985/143, 4-6=-1048/153, 6-7=-1003/113,  
 16-18=-1457/85, 1-16=-1364/100, 8-19=-1454/61, 7-8=-1274/104  
 BOT CHORD 12-13=0/659, 11-12=0/1072, 4-11=-302/97  
 WEBS 2-13=-596/110, 2-12=-64/824, 3-12=-409/131, 9-11=0/792, 6-11=-38/741, 6-9=-527/85,  
 7-9=0/898, 1-13=-24/1017

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-6, Interior(1) 3-3-6 to 5-2-13, Exterior(2R) 5-2-13 to 9-8-0, Interior(1) 9-8-0 to 23-1-3, Exterior(2R) 23-1-3 to 27-6-6, Interior(1) 27-6-6 to 31-2-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 19.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-5-1 max.): 2-6.  
 BOT CHORD Rigid ceiling directly applied. Except:  
 1 Row at midpt 4-11  
 WEBS 1 Row at midpt 2-13, 3-12, 4-12, 6-9, 1-18, 7-19

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6904 Parke East Blvd.  
 Tampa, FL 36610





Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A7	Piggyback Base	2	1	T22707759

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:25 2021 Page 1

ID:sWPxpV2x70AHY\_pSkPQEHzG\_Er-Kmn4H4aRoYV6k3rraW1qOeN288t2nHpC2dS5dYzov70

2-0-8	5-2-13	11-5-2	17-7-8	21-7-9	23-1-3	29-2-6	35-3-9	40-0-0
2-0-8	3-2-5	6-2-5	6-2-5	4-0-1	1-5-10	6-1-3	6-1-3	4-8-8

Scale = 1:99.3

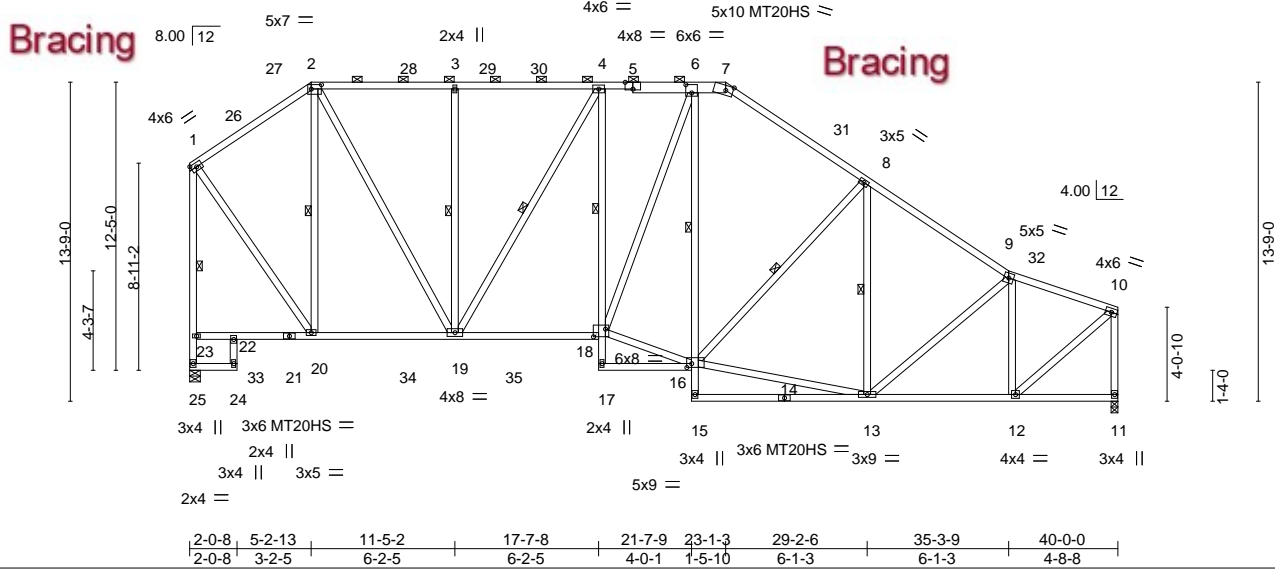


Plate Offsets (X,Y)-- [2:0-5-4,0-2-4], [5:0-4-0,Edge], [6:0-3-0,0-4-4], [7:0-3-12,Edge], [16:0-2-8,0-2-0], [18:0-6-4,0-4-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.16	18-19	>999	360	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.63	Vert(CT)	-0.29	13-15	>999	240	MT20HS 187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.12	11	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.07	16	>999	240	Weight: 357 lb FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except* 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-0-6 max.): 2-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.2	1 Row at midpt 4-18, 6-16
	WEBS 1 Row at midpt 2-20, 3-19, 4-19, 8-16, 8-13, 1-25

**REACTIONS.** (size) 25=0-5-8, 11=0-3-8  
Max Horz 25=-180(LC 12)  
Max Uplift 25=-121(LC 12), 11=-71(LC 12)  
Max Grav 25=1881(LC 18), 11=1792(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-1019/186, 2-3=-1385/312, 3-4=-1385/312, 4-6=-1710/367, 6-7=-1410/370,  
7-8=-1782/377, 8-9=-1932/316, 9-10=-1478/203, 23-25=-1827/252, 1-23=-1734/271,  
10-11=-1722/245  
BOT CHORD 19-20=0/865, 18-19=-27/1712, 12-13=-163/1398  
WEBS 2-20=-856/258, 2-19=-213/1278, 3-19=-399/158, 4-19=-647/114, 16-18=-14/1502,  
6-18=-0/856, 13-16=-140/1408, 9-12=-980/198, 1-20=-144/1339, 10-12=-201/1779

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=40ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-1-12, Interior(1) 4-1-12 to 5-2-13, Exterior(2R) 5-2-13 to 9-2-13, Interior(1) 9-2-13 to 23-1-3, Exterior(2R) 23-1-3 to 27-1-3, Interior(1) 27-1-3 to 39-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 25=121.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610







Job	Truss	Truss Type	Qty	Ply	T22707761
ZEDICKS	A9	Piggyback Base	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:29 2021 Page 1

ID:SWPxpV2x?0AHY\_pSkPQEHezG\_Er-CX1b7Sdysm0YDh8cpL6mYUXkqIEAj1ynzFQJJzov6y

2-0-8 5-2-13 11-5-2 17-7-8 21-7-9 23-1-3 29-2-6 35-3-9 39-6-8 45-2-0 46-6-0  
2-0-8 3-2-5 6-2-5 6-2-5 4-0-1 1-5-10 6-1-3 6-1-3 4-2-15 5-7-8 1-4-0

Bracing

Bracing

Scale = 1:97.3

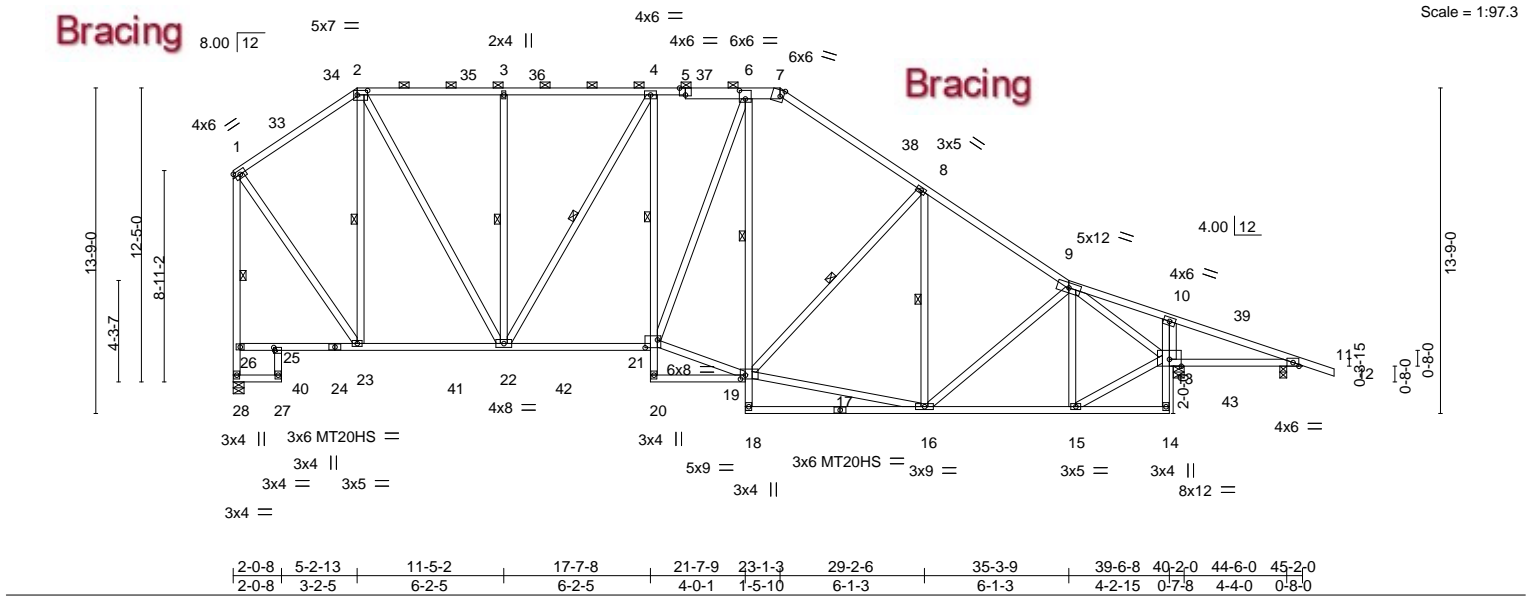


Plate Offsets (X,Y)-- [2:0-5-4,0-2-4], [5:0-3-0,Edge], [6:0-3-0,0-4-4], [7:0-1-12,Edge], [19:0-2-8,0-2-0], [21:0-6-4,0-4-0], [25:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.65	Vert(LL)	-0.15 21-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.62	Vert(CT)	-0.27 16-18	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT)	0.09 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.06 19	>999	240		
							Weight: 382 lb	FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2 *Except 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-1-14 max.): 2-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied. Except:
WEBS 2x4 SP No.2	1 Row at midpt 4-21, 6-19
	WEBS 1 Row at midpt 2-23, 3-22, 4-22, 8-19, 8-16, 1-28

<b>REACTIONS.</b>	(size) 28=0-5-8, 11=0-3-8, 13=0-5-8 Max Horz 28=-255(LC 12) Max Uplift 28=-121(LC 12), 11=-122(LC 12), 13=-133(LC 12) Max Grav 28=1843(LC 18), 11=240(LC 22), 13=2099(LC 18)
-------------------	---

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1001/174, 2-3=-1344/308, 3-4=-1344/308, 4-6=-1645/360, 6-7=-1347/374, 7-8=-1706/375, 8-9=-1786/321, 9-10=-53/395, 10-11=-94/362, 26-28=-1797/234, 1-26=-1702/257
BOT CHORD	23-25=-138/317, 22-23=0/871, 21-22=0/1673, 15-16=-87/1135, 10-13=-284/112, 11-13=-302/153
WEBS	2-23=-831/274, 2-22=-219/1234, 3-22=-400/162, 4-22=-600/104, 19-21=0/1457, 6-21=0/867, 16-19=-71/1290, 8-16=-274/74, 9-16=0/385, 9-15=-456/112, 13-15=-103/1295, 9-13=-1841/279, 1-23=-134/1307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=45ft; eave=6ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-7-15, Interior(1) 4-7-15 to 5-2-13, Exterior(2R) 5-2-13 to 9-9-0, Interior(1) 9-9-0 to 23-1-3, Exterior(2R) 23-1-3 to 27-7-6, Interior(1) 27-7-6 to 46-6-0 zone; cantilever right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 28=121, 11=122, 13=133.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Julius Lee PE No. 34869  
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Date:

February 3, 2021

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A10	Piggyback Base	4	1	T22707762

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:01 2021 Page 1

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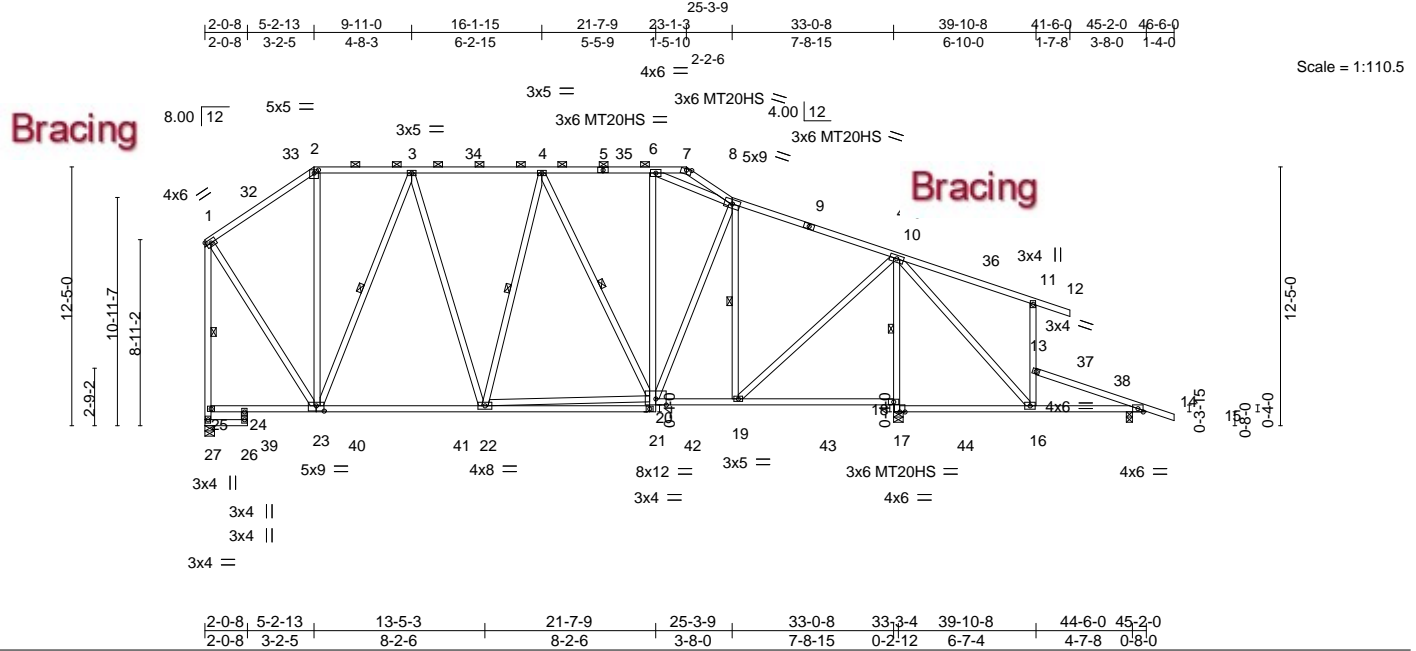


Plate Offsets (X,Y)--		[2:0-2-8,0-1-13], [23:0-4-8,0-3-0]															
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES		GRIP					
TCLL	20.0	Plate Grip DOL 1.25		TC 0.72		Vert(LL) -0.16 22-23		>999 360		MT20		244/190					
TCDL	10.0	Lumber DOL 1.25		BC 0.74		Vert(CT) -0.25 22-23		>999 240		MT20HS		187/143					
BCLL	0.0 *	Rep Stress Incr YES		WB 0.51		Horz(CT) 0.02 17		n/a n/a									
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Wind(LL) 0.04 16-17		>999 240		Weight: 369 lb		FT = 15%					

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A10ET	Monopitch Structural Gable	2	1	T22707763

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:02 2021 Page 1

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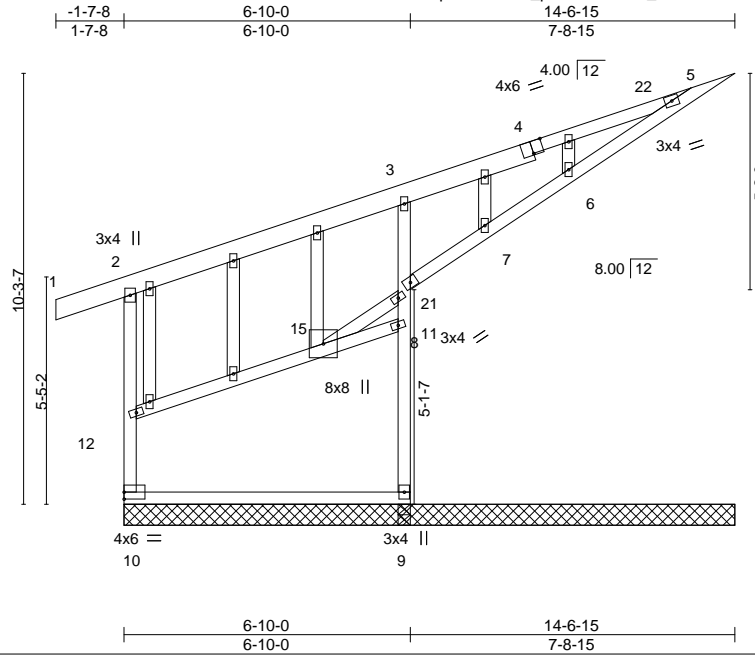


Plate Offsets (X,Y)--		[4:0-3.0,Edge]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>				<b>PLATES</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.82	in (loc)	I/defl	L/d		MT20	GRIP
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(LL)	-0.07 9-10	>999	360		244/190
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.61	Vert(CT)	-0.13 9-10	>584	240		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S		Horz(CT)	-0.33 5	n/a	n/a		
						Wind(LL)	0.06 9-10	>999	240	Weight: 104 lb FT = 15%	

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
1-4: 2x6 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2 \*Except\*  
2-10: 2x4 SP No.1  
OTHERS 2x4 SP No.2

#### BRACING-

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

#### REACTIONS.

All bearings 14-6-15.  
(lb) - Max Horz 10=273(LC 12)  
Max Uplift All uplift 100 lb or less at joint(s) 10, 8, 7 except 5=151(LC 12)  
Max Grav All reactions 250 lb or less at joint(s) 5, 9, 9, 6, 7 except 10=334(LC 1), 8=498(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-196/385, 3-5=-323/677, 10-12=-268/153, 2-12=-268/326  
BOT CHORD 3-8=-501/453, 7-8=-871/380, 6-7=-820/363, 5-6=-820/351  
WEBS 12-15=-551/202, 15-21=-423/195

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-7-8 to 1-4-8, Exterior(2N) 1-4-8 to 13-7-2 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- N/A
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8, 7 except (jt=lb) 5=151.

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Date:

February 3, 2021

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6904 Parke East Blvd.  
Tampa, FL 36610











Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A13ET	GABLE	1	1	T22707767

SANTA FE TRUSS COMPANY INC, BELL FL

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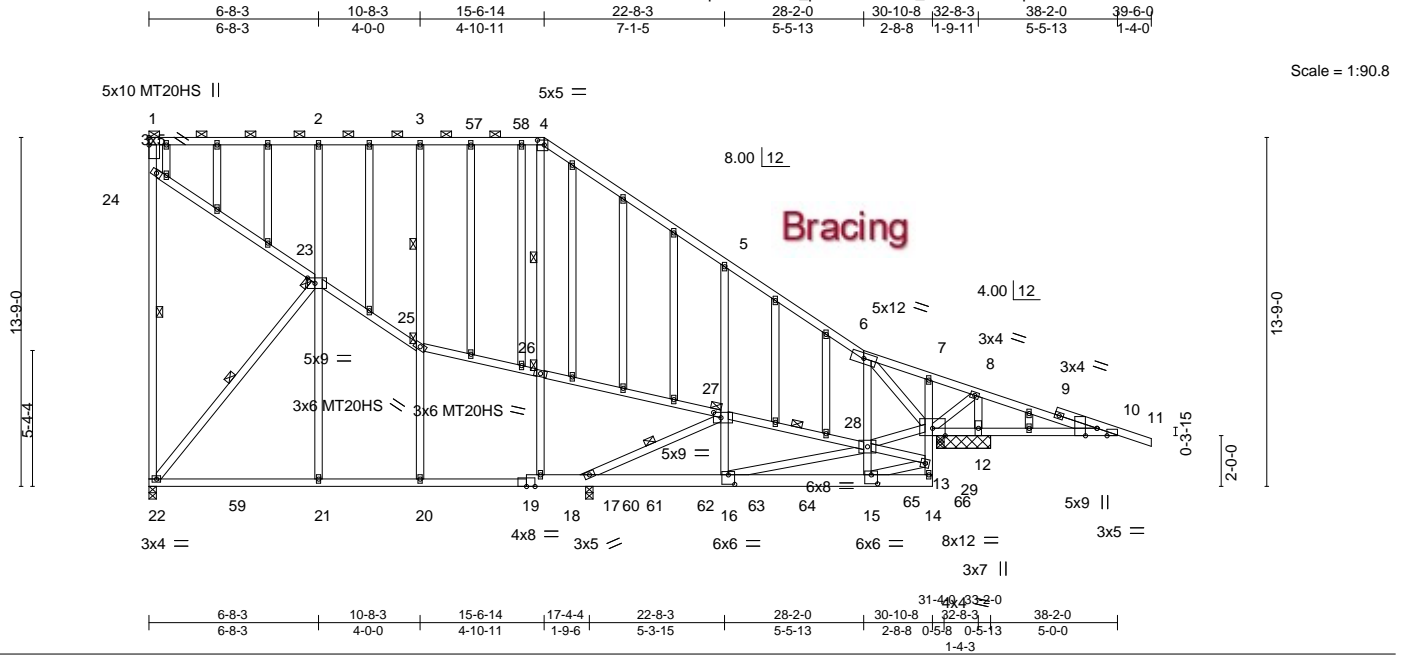


Plate Offsets (X,Y)-- [4:0-3-4,0-2-4], [10:0-3-8,Edge], [10:0-4-12,Edge], [15:0-3-0,0-4-4], [16:0-3-0,0-4-8], [23:0-3-8,0-2-8], [27:0-3-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.89	Vert(LL) -0.24	20	>857	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.87	Vert(CT) -0.37	20	>540	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.64	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL) 0.13	20	>999	240	Weight: 430 lb	FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 14-19: 2x6 SP SS  
 WEBS 2x4 SP No.2  
 OTHERS 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 1-4.  
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing, Except:  
 5-8-14 oc bracing: 12-13  
 5-9-14 oc bracing: 10-12.  
 WEBS 1 Row at midpt 1-22, 3-25, 4-26, 17-27, 27-28, 22-23  
 JOINTS 1 Brace at Jt(s): 1, 23, 25, 26, 27

#### REACTIONS.

All bearings 2-1-8 except (jt=length) 22=0-3-8, 17=0-3-8.  
 (lb) - Max Horz 22=-349(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) except 22=-109(LC 17), 13=-390(LC 8), 12=-944(LC 18), 17=-317(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) except 22=1080(LC 14), 13=3783(LC 1), 13=3783(LC 1), 12=1289(LC 15), 17=2383(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 22-24=-478/108, 1-2=-437/75, 2-3=-445/76, 3-4=-443/76, 4-5=-637/58, 5-6=-633/0, 6-7=-360/1464, 7-8=-386/1489, 8-10=-268/1088  
 BOT CHORD 21-22=0/503, 20-21=0/498, 18-20=0/532, 17-18=0/503, 16-17=-102/3012, 15-16=-169/1859, 13-29=-98/1128, 12-13=-995/285, 10-12=-995/285  
 WEBS 23-24=-96/550, 21-23=0/470, 2-23=-392/125, 17-27=-2966/484, 16-27=-196/1416, 5-27=-452/227, 27-28=-2723/404, 15-28=-32/884, 6-28=-96/1209, 13-28=0/596, 6-13=-2726/218, 8-13=-961/1001, 8-12=-1082/903, 28-29=-2011/202, 16-28=0/1174, 22-23=-686/51, 15-29=-148/1866

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional); cantilever right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 22, 390 lb uplift at joint 13, 944 lb uplift at joint 12 and 317 lb uplift at joint 17.

Confirmation of representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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

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Julius Lee PE No. 34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 3, 2021



6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707767
ZEDICKS	A13ET	GABLE	1	1	Job Reference (optional)

SANTA FE TRUSS COMPANY INC, BELL FL

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- NOTES-**
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 347 lb down and 61 lb up at 17-9-4, 577 lb down and 63 lb up at 19-9-4, 577 lb down and 61 lb up at 21-9-4, 577 lb down and 58 lb up at 23-9-4, 577 lb down and 57 lb up at 25-9-4, and 577 lb down and 55 lb up at 27-9-4, and 534 lb down and 52 lb up at 29-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

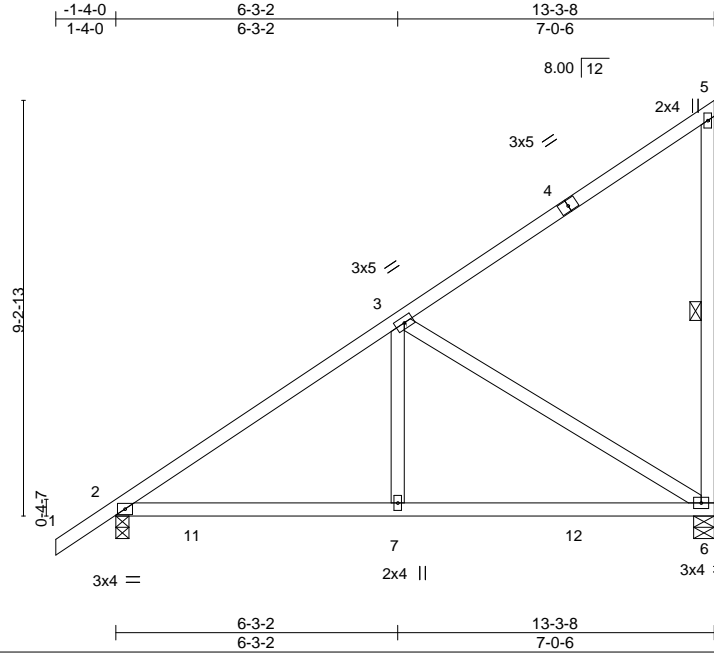
- LOAD CASE(S)** Standard
- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-4=-60, 4-6=-60, 6-11=-60, 14-22=-20, 13-54=-20
- Concentrated Loads (lb)
- Vert: 60=-347(F) 61=-577(F) 62=-577(F) 63=-577(F) 64=-577(F) 65=-577(F) 66=-534(F)

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A14	Monopitch	22	1	T22707768

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:SWPxpV2x?0AHY\_pSkPQEHzG\_Er-ohp1wcNPdUOpccme9l4lGin3hSE11wrN8aF3Tzov7G



Bracing

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL)	-0.06	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.44	Vert(CT)	-0.11	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.63	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.08	6-7	>999		
	Code FBC2020/TPI2014						Weight: 76 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 5-6

#### REACTIONS.

(size) 2=0-3-8, 6=0-5-8  
Max Horz 2=291(LC 12)  
Max Uplift 2=-123(LC 12), 6=-245(LC 12)  
Max Grav 2=610(LC 1), 6=522(LC 1)

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

TOP CHORD 2-3=-664/215  
BOT CHORD 2-7=-407/490, 6-7=-407/490  
WEBS 3-7=-212/303, 3-6=-560/464

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 13-1-12 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 245 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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

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



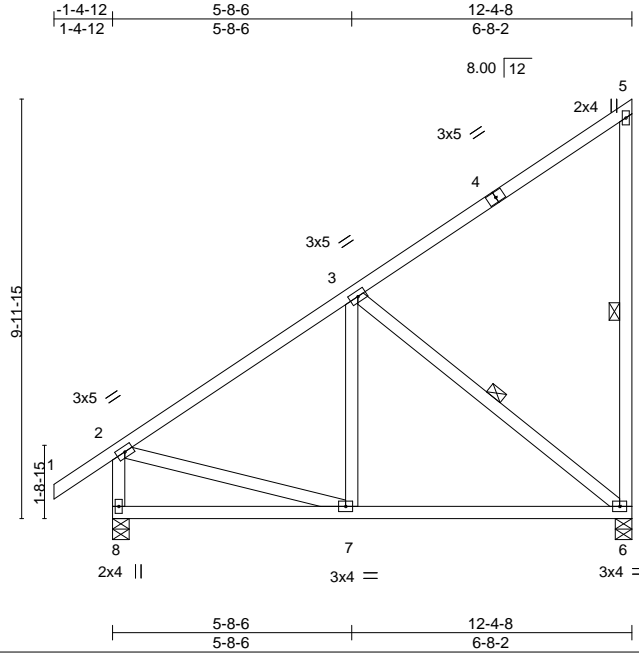
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A15	Roof Special	1	1	T22707769

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-GtNP7yO1LxcFRmByCsGJHUFYf5pambw\_coKobwzov7F



Scale = 1:54.9

Bracing

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.05	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.37	Vert(CT)	-0.10	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.14	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	-0.00	6-7	>999		
	Code FBC2020/TPI2014						Weight: 87 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 8=0-4-12, 6=0-4-12  
Max Horz 6=312(LC 12)  
Max Uplift 6=139(LC 12)  
Max Grav 8=582(LC 1), 6=495(LC 17)

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

TOP CHORD 2-3=-475/0, 2-8=-534/37  
BOT CHORD 6-7=0/328  
WEBS 3-6=-430/224, 2-7=0/295

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 1-7-4, Interior(1) 1-7-4 to 12-2-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 6.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Julius Lee PE No. 34869  
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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



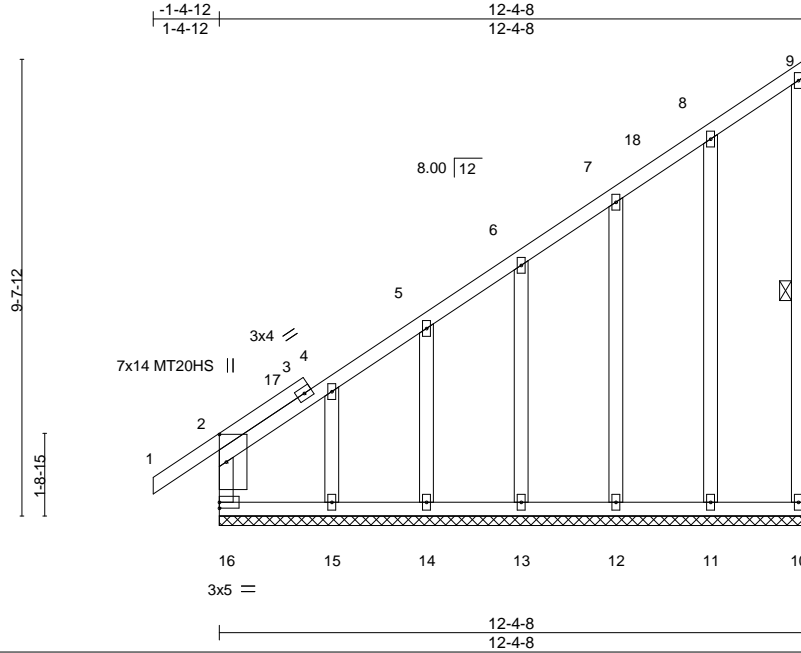
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A15ET	ROOF SPECIAL SUPPORT	1	1	T22707770

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:11 2021 Page 1

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Scale = 1:48.7

Bracing

Plate Offsets (X,Y)-- [2:0-7-0,0-1-12]

LOADING (psf)	SPACING-		CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.63	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.00	1	n/r	120	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	-0.00	10	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-R						Weight: 99 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.  
WEBS 1 Row at midpt 9-10

#### REACTIONS.

All bearings 12-4-8.

(lb) - Max Horz 16=295(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 10, 16, 11, 12, 13 except 15=218(LC 12)

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

#### FORCES.

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

TOP CHORD 2-4=-516/250, 4-5=-358/172, 5-6=-292/139, 2-16=-295/118

WEBS 4-15=-181/280

#### NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-12 to 1-7-4, Exterior(2N) 1-7-4 to 12-2-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 16, 11, 12, 13 except (jt=lb) 15=218.

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Julius Lee PE No. 34869  
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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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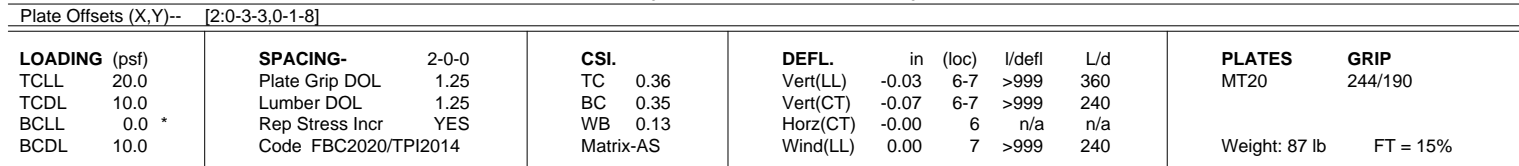
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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SANTA FE TRUSS COMPANY INC, BELL FL 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:12 2021 Page 1  
ID:SWPxpV2x?0AHY\_pSKPQEHezG\_Er-CGV9YeQHsYtyg4LLKHlnMvKvgvVSEUUVH36vpgozov7D



**REACTIONS.** (size) 8=0-4-12, 6=0-4-12  
 Max Horz 8=277(LC 12)  
 Max Uplift 6=-137(LC 12)  
 Max Grav 8=582(LC 1), 6=493(LC 17)

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

TOP CHORD 2-3=-465/0, 2-8=-526/41  
BOT CHORD 7-8=-352/274, 6-7=-161/323  
WEBS 3-6=-428/214

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2/E) -1-4-12 to 1-7-4, Interior(1) 1-7-4 to 12-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=137.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Date:

February 3, 2021



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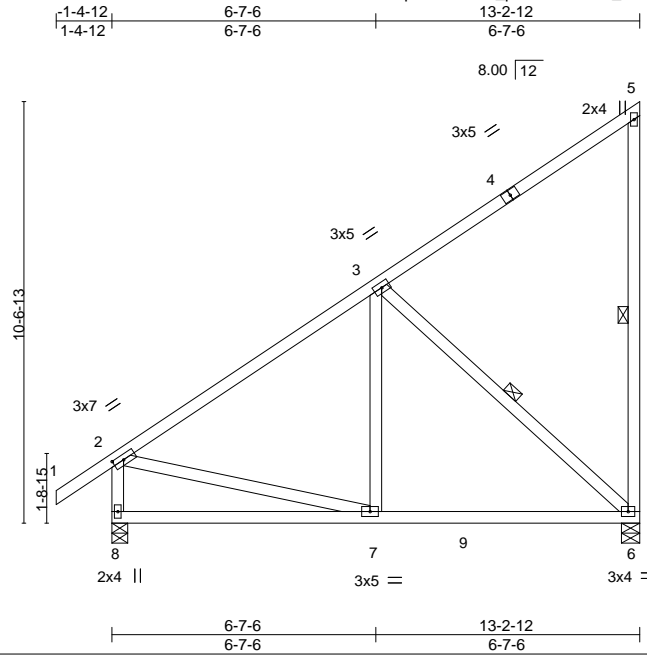


Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	A17	Monopitch	1	1	T22707772

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:12 2021 Page 1

ID:sWPxpV2x70AHY\_pSkPQEHezG\_Er-CGV9YeQHsYtyg4LLKHlnMvKutvU4ETUH36pvgozov7D



Scale = 1:57.7

Plate Offsets (X,Y)-- [2:0-3-3,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	-0.06	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.44	Vert(CT)	-0.10	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.20	Horz(CT)	-0.01	6	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.01	7	>999	240	Weight: 93 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 8=0-4-12, 6=0-5-8  
Max Horz 8=293(LC 12)  
Max Uplift 6=144(LC 12)  
Max Grav 8=671(LC 17), 6=645(LC 17)

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

TOP CHORD 2-3=-545/0, 2-8=-572/35  
BOT CHORD 7-8=-361/295, 6-7=-160/436  
WEBS 3-7=0/288, 3-6=-571/211, 2-7=0/315

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 1-7-4, Interior(1) 1-7-4 to 13-1-0 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=144.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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



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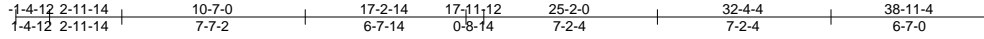


Job	Truss	Truss Type	Qty	Ply	T22707774
ZEDICKS	B2	Roof Special	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:32 2021 Page 1

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3x6 MT20HS =

Scale: 1/8"=1'

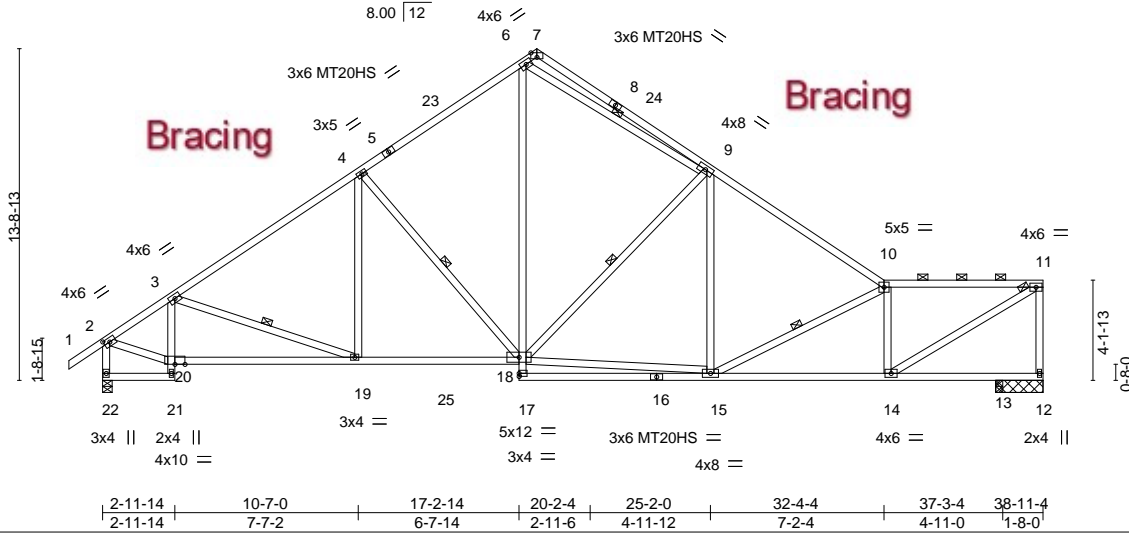


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [7:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.68	Vert(LL)	-0.18 18-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.80	Vert(CT)	-0.35 15-17	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT)	0.10 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.10 14-15	>999	240		
							Weight: 281 lb	FT = 15%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-11-10 max.): 10-11.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-19, 4-18, 10-15, 9-18, 6-9

**REACTIONS.** (size) 12=1-11-8, 22=0-4-12, 13=0-3-8  
Max Horz 22=-275(LC 10)  
Max Uplift 12=-130(LC 12), 22=-138(LC 12)  
Max Grav 12=1446(LC 18), 22=1800(LC 17), 13=241(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-2007/162, 3-4=-2177/213, 4-6=-1683/277, 6-7=-272/122, 7-9=-499/78,  
9-10=-2190/222, 10-11=-2254/175, 11-12=-1524/150, 2-22=-1770/174  
BOT CHORD 3-20=-392/92, 19-20=-220/1924, 18-19=-113/1861, 6-18=-133/1283, 14-15=-181/2299  
WEBS 4-19=0/373, 4-18=-708/148, 9-15=0/478, 10-15=-652/92, 10-14=-1210/179,  
11-14=-196/2624, 2-20=-100/1736, 15-18=-110/1528, 9-18=-734/141, 6-9=-1339/255

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 2-6-0, Interior(1) 2-6-0 to 17-11-12, Exterior(2R) 17-11-12 to 21-10-8, Interior(1) 21-10-8 to 38-9-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=130, 22=138.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



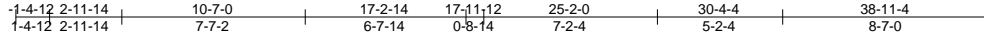
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	B3	Roof Special	1	1	T22707775

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:33 2021 Page 1

ID:SWPxpV2x?0AHY\_pSkPQEHzG\_Er-5JG5ypgSw?W\_hISN2BAijKiOZMaTfuLNutOWu4zov6u



3x6 MT20HS =

Scale: 1/8"=1'

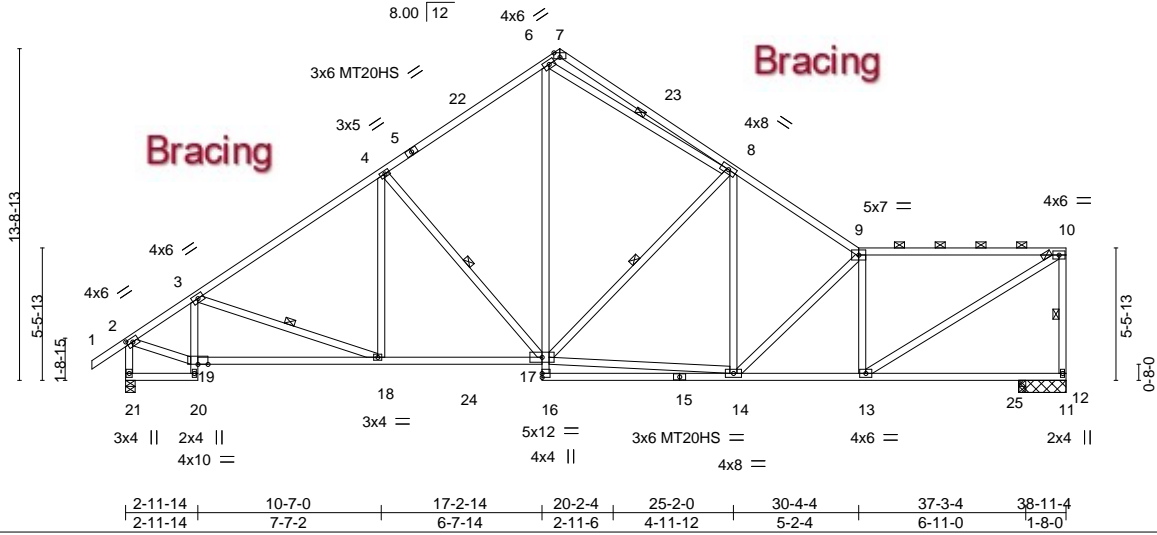


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [7:0-3-0,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.73	Vert(LL)	-0.18 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.73	Vert(CT)	-0.36 14-16	>999	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.54	Horz(CT)	0.10 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.09 13-14	>999	240		
							Weight: 286 lb	FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*  
9-10: 2x4 SP SS  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (3-4-9 max.): 9-10.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 10-11, 3-18, 4-17, 8-17, 6-8

#### REACTIONS.

(size) 11=1-11-8, 21=0-4-12, 12=0-3-8  
Max Horz 21=-261(LC 10)  
Max Uplift 11=-182(LC 12), 21=-136(LC 12)  
Max Grav 11=1431(LC 17), 21=1802(LC 17), 12=326(LC 16)

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

TOP CHORD 2-3=-2009/163, 3-4=-2180/212, 4-6=-1677/274, 6-7=-302/134, 7-8=-543/96,  
8-9=-2155/227, 9-10=-2078/178, 10-11=-1493/172, 2-21=-1771/176  
BOT CHORD 3-19=-393/90, 18-19=-263/1913, 17-18=-150/1852, 6-17=-125/1277, 13-14=-183/2109  
WEBS 4-18=0/373, 4-17=-706/150, 8-14=0/517, 9-14=-556/77, 9-13=-1110/171,  
10-13=-195/2411, 2-19=-107/1735, 14-17=-139/1496, 8-17=-694/126, 6-8=-1306/228

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 2-4-0, Interior(1) 2-4-0 to 17-11-12, Exterior(2R) 17-11-12 to 21-8-8, Interior(1) 21-8-8 to 38-9-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=182, 21=136.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 3, 2021

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

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



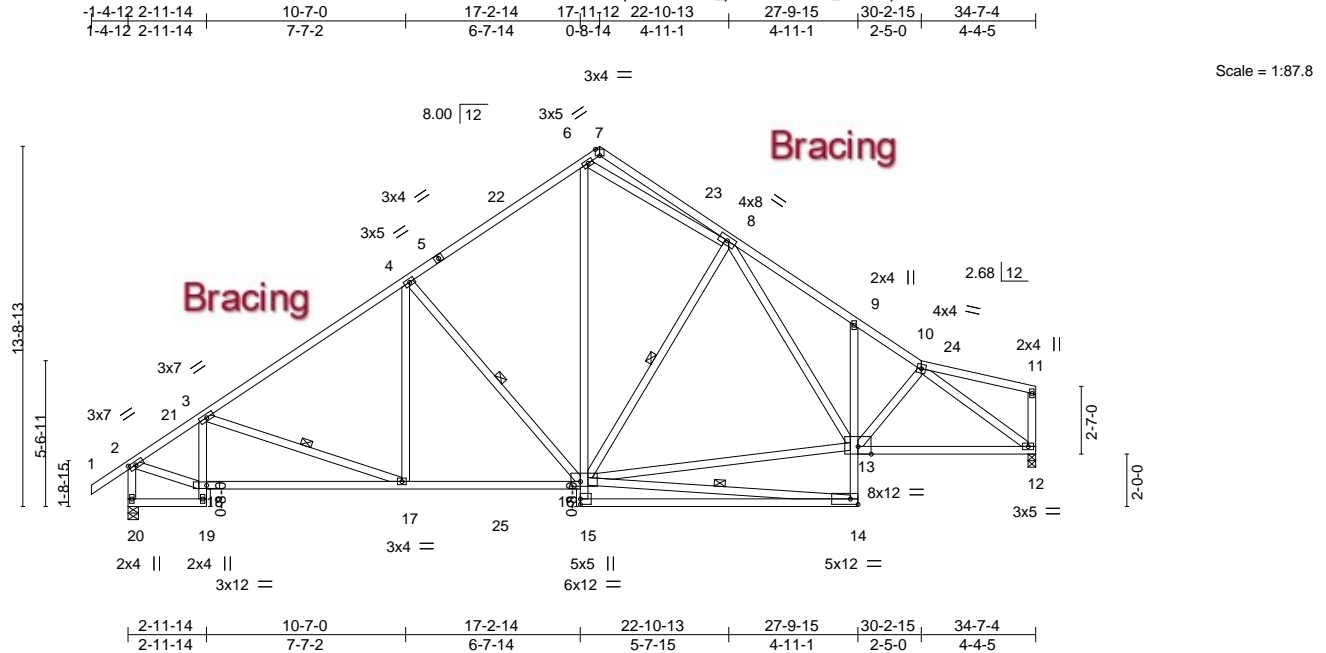
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	B4	Roof Special	1	1	T22707776

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:34 2021 Page 1

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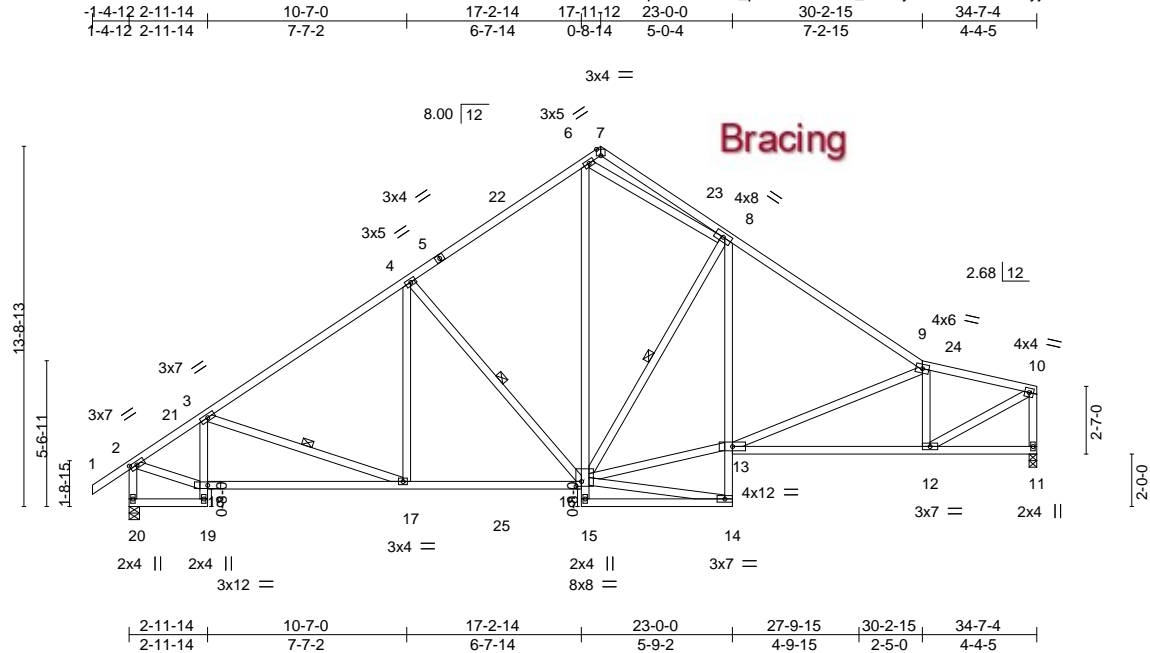


Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	B5	Roof Special	1	1	T22707777

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-VtyEbriLDwuYZmByjJkPLzKzFacsBGpardAVPzov6r



Scale = 1:87.8

Plate Offsets (X,Y)--		[2:0-3-3,0-1-8], [7:0-2-0,Edge], [16:0-2-8,0-2-4]			
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	in (loc) l/defl L/d	MT20 244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.68	Vert(LL) -0.14 12-13 >999 360	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Vert(CT) -0.29 12-13 >999 240	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Horz(CT) 0.09 11 n/a n/a	
				Wind(LL) 0.06 14 >999 240	
					Weight: 262 lb FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 3-17, 4-16, 8-16

#### REACTIONS.

(size) 20=0-4-12, 11=0-3-8  
Max Horz 20=-228(LC 10)  
Max Uplift 20=-125(LC 12), 11=-90(LC 12)  
Max Grav 20=1622(LC 17), 11=1485(LC 19)

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

TOP CHORD 2-3=-1786/270, 3-4=-1887/329, 4-6=-1383/377, 8-9=-1851/353, 9-10=-1785/277,  
2-20=-1591/302, 10-11=-1440/236  
BOT CHORD 3-18=-336/116, 17-18=-336/1731, 16-17=-205/1613, 6-16=-217/986, 8-13=-6/708,  
12-13=-261/1755  
WEBS 4-17=0/381, 4-16=-710/209, 6-8=-1229/463, 8-16=-832/191, 13-16=-146/1512,  
9-13=-381/112, 2-18=-196/1560, 10-12=-280/1953, 9-12=-756/226

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=35ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 2-0-12, Interior(1) 2-0-12 to 17-11-12, Exterior(2R) 17-11-12 to 21-5-4, Interior(1) 21-5-4 to 34-5-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 20=125.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	B6	Roof Special	1	1	T22707778

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x70AHY\_pSkPQEHezG\_Er-z4VcoBjz\_E0PAwI8H1FetAs74\_wbbiyzpVmk1szov6q

1-4-12	2-11-14	10-1-6	17-2-14	17-11-12	22-10-3	27-9-15	30-2-15	34-8-15	37-3-4
1-4-12	2-11-14	7-1-8	7-1-8	0-8-14	4-10-7	4-11-11	2-5-0	4-6-0	2-6-5

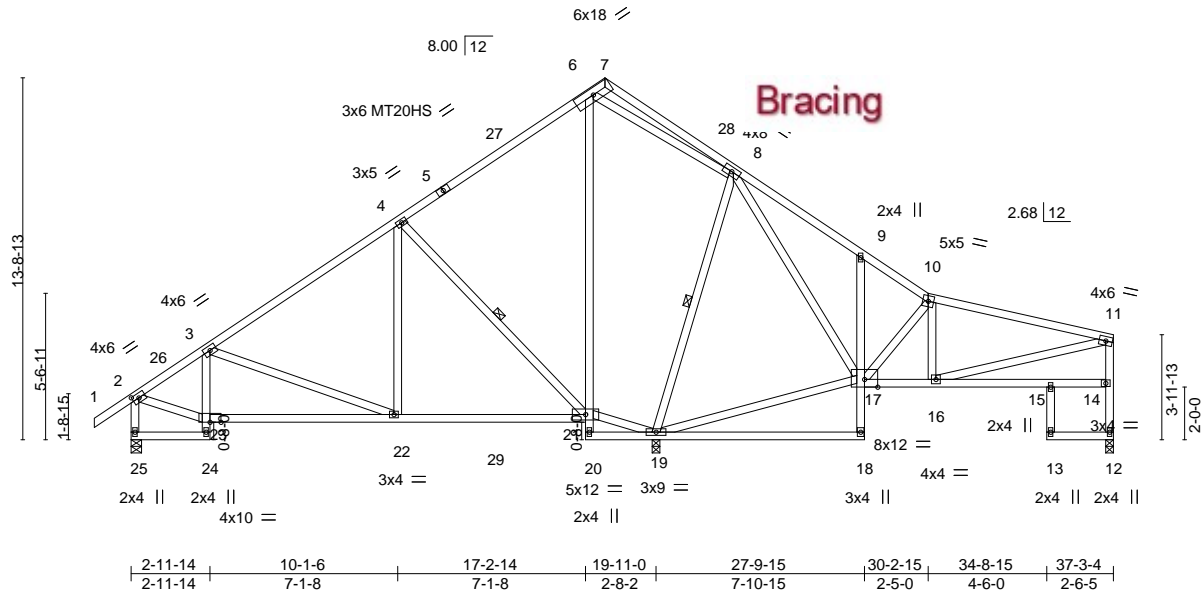


Plate Offsets (X,Y)-- [2:0-2-14,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.57	Vert(LL)	-0.23 21-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.78	Vert(CT)	-0.42 21-22	>567	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.24 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.10 21-22	>999	240		
								Weight: 283 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 4-21, 8-19

#### REACTIONS.

(size) 25=0-4-12, 12=0-3-8, 19=0-3-8  
Max Horz 25=-273(LC 10)  
Max Uplift 25=-77(LC 12), 12=-31(LC 12), 19=-120(LC 12)  
Max Grav 25=1466(LC 17), 12=1285(LC 17), 19=845(LC 18)

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

TOP CHORD 2-3=-1597/188, 3-4=-1670/219, 4-6=-1107/250, 7-8=-340/0, 8-9=-2001/358,  
9-10=-2050/264, 10-11=-2200/230, 2-25=-1436/225, 12-14=-1226/148, 11-14=-1121/169  
BOT CHORD 3-23=-282/85, 22-23=-256/1555, 21-22=-119/1448, 6-21=-74/705, 19-20=-120/256,  
16-17=-194/2126  
WEBS 4-22=0/411, 4-21=-761/221, 19-21=0/695, 6-8=-827/351, 8-19=-821/249,  
17-19=-60/1055, 8-17=-192/1172, 10-17=-734/110, 10-16=-324/121, 2-23=-110/1370,  
11-16=-168/1967

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 2-4-0, Interior(1) 2-4-0 to 17-11-12, Exterior(2R) 17-11-12 to 21-8-8, Interior(1) 21-8-8 to 37-1-8 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 12 except (jt=lb) 19=120.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Date:

February 3, 2021

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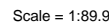
**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

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SANTA FE TRUSS COMPANY INC, BELL FL 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:38 2021 Page 1  
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt                      6-7, 3-11, 4-9

**REACTIONS.** (size) 7=0-3-8, 15=0-4-12  
 Max Horz 15=459(LC 12)  
 Max Uplift 7=-206(LC 12)  
 Max Gray 7=1039(LC 17). 15=985(LC 17)

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

TOP CHORD 2-3=-1021/0, 3-4=-860/0, 7-9=-961/227, 2-15=-952/7  
BOT CHORD 14-15=-360/244, 11-13=-376/1018, 10-11=-153/697, 9-10=-192/645  
WEBS 3-11=-346/234, 4-11=0/528, 4-9=-933/207, 2-13=0/884

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl.; GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1.4-12 to 1-7.4, Interior(1) 1-7.4 to 19-11-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=206.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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6904 Parke East Blvd  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707780
ZEDICKS	B8	Monopitch	1	1	

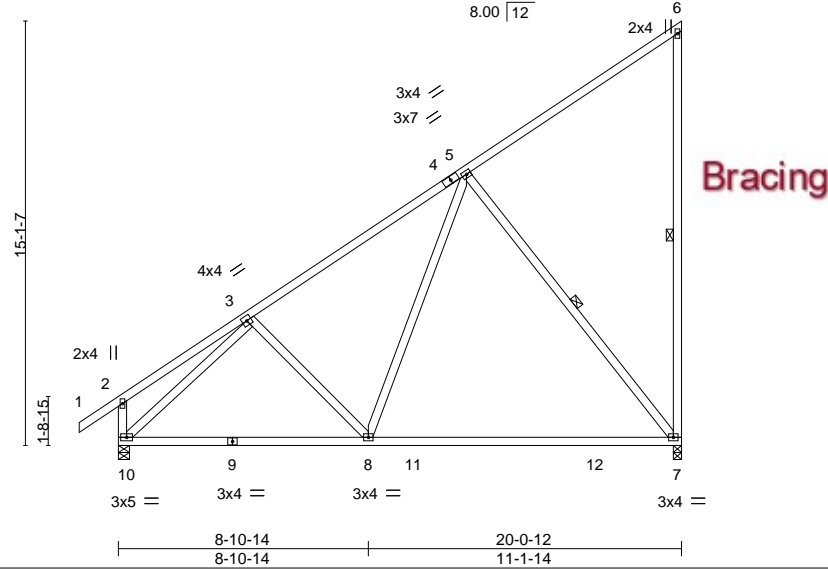
SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:39 2021 Page 1

ID:SWPxpV2x70AHY\_pSkPQEHezG\_Er-wSdNDsIDvRG7QDvXPSH6ybySsndV3bNFGpr6kzov6o

1-4-12 4-8-5 12-4-13 20-0-12  
1-4-12 4-8-5 7-8-7 7-7-15

Scale = 1:82.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.64	7-8	>370	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.75	Vert(CT)	-0.98	7-8	>243		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.63	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.01	8	>999		
	Code FBC2020/TPI2014						Weight: 142 lb	FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2 \*Except\*  
7-9: 2x4 SP 2400F 2.0E  
WEBS 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 6-7, 5-7

#### REACTIONS.

(size) 7=0-3-8, 10=0-4-12  
Max Horz 10=459(LC 12)  
Max Uplift 7=-206(LC 12)  
Max Grav 7=1022(LC 17), 10=991(LC 17)

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

TOP CHORD 3-5=-896/0  
BOT CHORD 8-10=-270/814, 7-8=-134/511  
WEBS 5-8=0/632, 5-7=-834/218, 3-10=-926/0

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-12 to 1-7-4, Interior(1) 1-7-4 to 19-11-0 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=206.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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

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

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



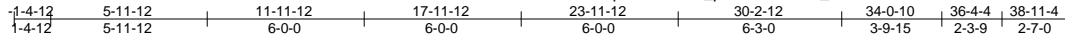
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	BET	GABLE	1	1	T22707781

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:41 2021 Page 1

ID:SWPxpV2x?0AHY\_pSkPQEHzG\_Er-srI7eYmT1SWrfX3wWtKa201tPbLpXSHYk7KxAdzov6m



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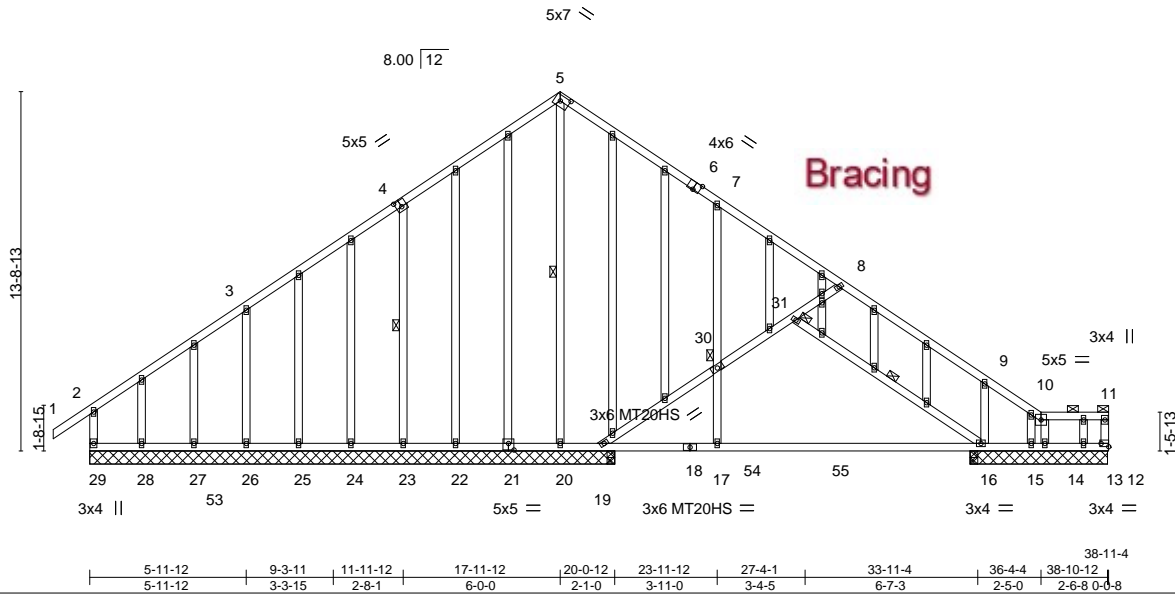


Plate Offsets (X,Y)-- [4:0-2-8,0-3-0], [5:0-4-4,0-2-8], [6:0-3-0,Edge], [12:Edge,0-1-8], [21:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.29	Vert(LL)	-0.40 16-17	>445	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.57	Vert(CT)	-0.73 16-17	>243	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.80	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.18 16-17	>977	240	Weight: 335 lb	FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP SS	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-11.
BOT CHORD 2x4 SP SS *Except* 18-21: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 8-30: 2x4 SP No.1	WEBS 1 Row at midpt 4-23, 5-20, 16-31
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 11, 30, 31

**REACTIONS.** All bearings 20-0-12 except (jt=length) 12=5-3-0, 16=5-3-0, 14=5-3-0, 15=5-3-0, 13=5-3-0, 19=0-3-8, 19=0-3-8.  
 (lb) - Max Horz 29=301(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 28 except 12=108(LC 9), 26=169(LC 12), 23=155(LC 12), 15=842(LC 18), 13=296(LC 17), 19=133(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 22, 24, 25, 27, 28, 13 except 12=402(LC 17), 29=276(LC 21), 26=506(LC 17), 23=406(LC 17), 20=365(LC 18), 16=1070(LC 18), 16=765(LC 1), 14=780(LC 17), 19=863(LC 18), 19=682(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-5=238/398, 5-7=210/394, 7-8=274/262, 8-9=367/270, 9-10=364/139, 10-11=260/92, 2-29=272/133  
 BOT CHORD 17-19=162/612, 16-17=150/538, 15-16=102/289, 14-15=102/289, 13-14=92/260, 12-13=92/260  
 WEBS 3-26=397/246, 4-23=362/221, 5-20=504/0, 19-30=775/240, 17-30=0/271, 30-31=521/204, 8-31=389/183, 16-31=347/58

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=39ft; eave=1ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-12 to 2-6-0, Exterior(2N) 2-6-0 to 17-11-12, Corner(3R) 17-11-12 to 21-10-8, Exterior(2N) 21-10-8 to 38-9-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 3, 2021

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

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6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707781
ZEDICKS	BET	GABLE	1	1	Job Reference (optional)

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-srI7eYmT1SWrfX3wWtKa201tPbLpXSHYk7KxAdzov6m

#### NOTES-

- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 28 except (jt=lb) 12=108, 26=169, 23=155, 15=842, 13=296, 19=133.
- 12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	CET	Common Supported Gable	1	1	T22707782

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:42 2021 Page 1  
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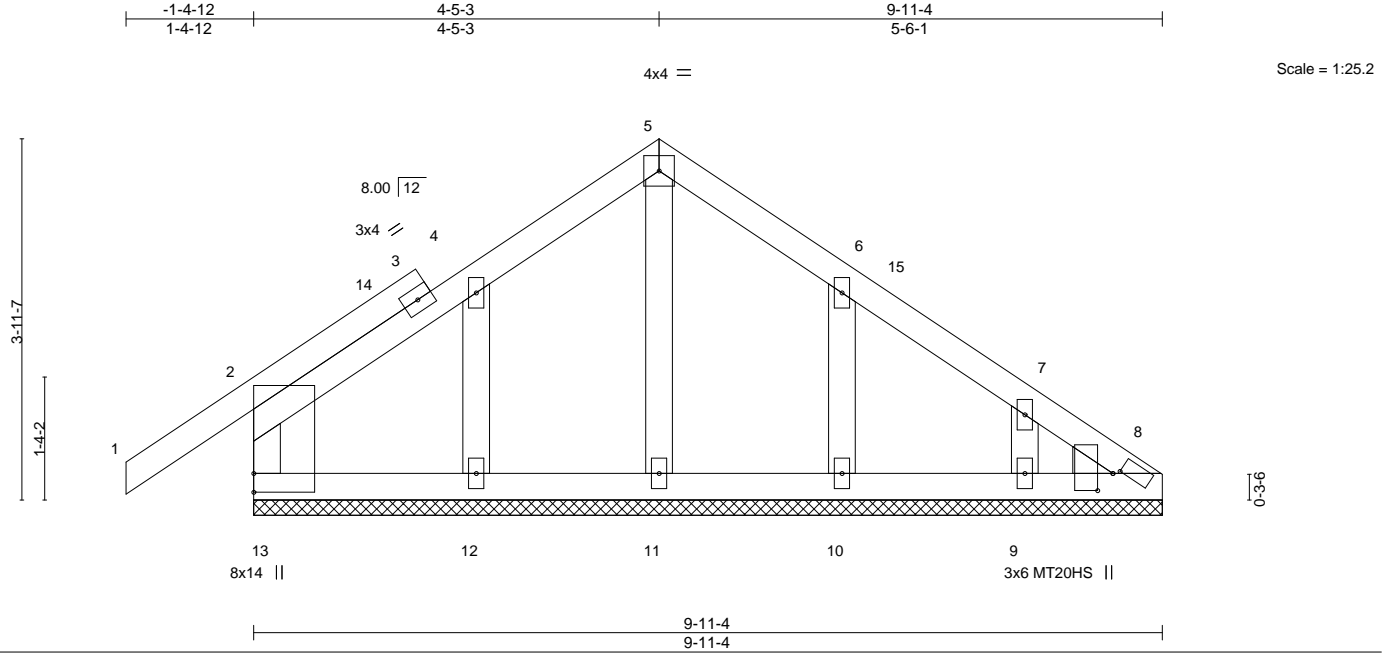


Plate Offsets (X,Y)--		[8:0-0-10,0-0-12], [8:0-2-4,0-2-0]	
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSL.</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.17
TCDL 10.0	Lumber DOL	1.25	BC 0.04
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S
			<b>DEFL.</b>
			in (loc) l/defl L/d
			Vert(LL) -0.00 1 n/r 120
			Vert(CT) -0.00 1 n/r 120
			Horz(CT) -0.00 8 n/a n/a
			<b>PLATES GRIP</b>
			MT20 244/190
			MT20HS 187/143
			Weight: 52 lb FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
BOT CHORD 2x4 SP No.2  
WEBS 2x4 SP No.2  
OTHERS 2x4 SP No.2  
WEDGE  
Right: 2x4 SP No.2

#### BRACING-

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

#### REACTIONS.

All bearings 9-11-4.  
(lb) - Max Horz 13=76(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 13, 8, 12, 10, 9  
Max Grav All reactions 250 lb or less at joint(s) 13, 8, 11, 12, 10, 9

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-12 to 1-7-4, Exterior(2N) 1-7-4 to 4-5-3, Corner(3R) 4-5-3 to 7-5-3, Exterior(2N) 7-5-3 to 9-9-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8, 12, 10, 9.

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Date:

February 3, 2021

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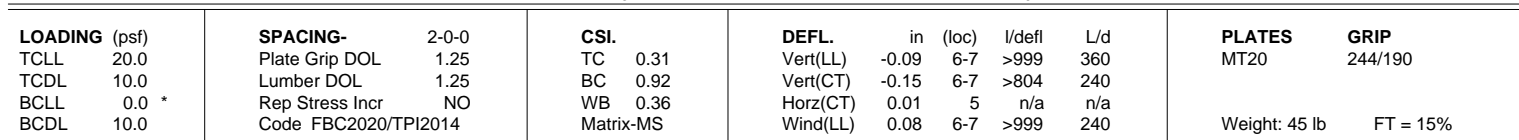
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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SANTA FE TRUSS COMPANY INC, BELL FL 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:43 2021 Page 1  
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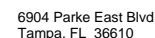
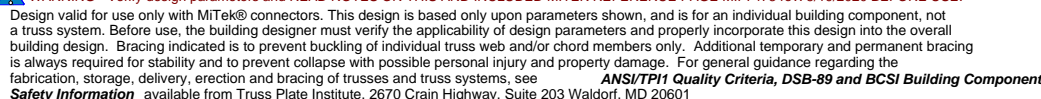


TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpI=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=148, 5=127.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 14 lb up at 1-5-4, 39 lb down and 14 lb up at 1-5-4, 48 lb down and 43 lb up at 4-3-4, 48 lb down and 43 lb up at 4-3-4, and 132 lb down and 82 lb up at 7-1-3, and 132 lb down and 82 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-60, 5-8=-20  
Concentrated Loads (lb)  
Vert: 11=0(F=0, B=0) 12=-95(F=-48, B=-48) 13=-263(F=-132, B=-132)

February 3, 2021



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	CJ09A	DIAGONAL HIP GIRDER	1	1	T22707784

SANTA FE TRUSS COMPANY INC,

BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:44 2021 Page 1

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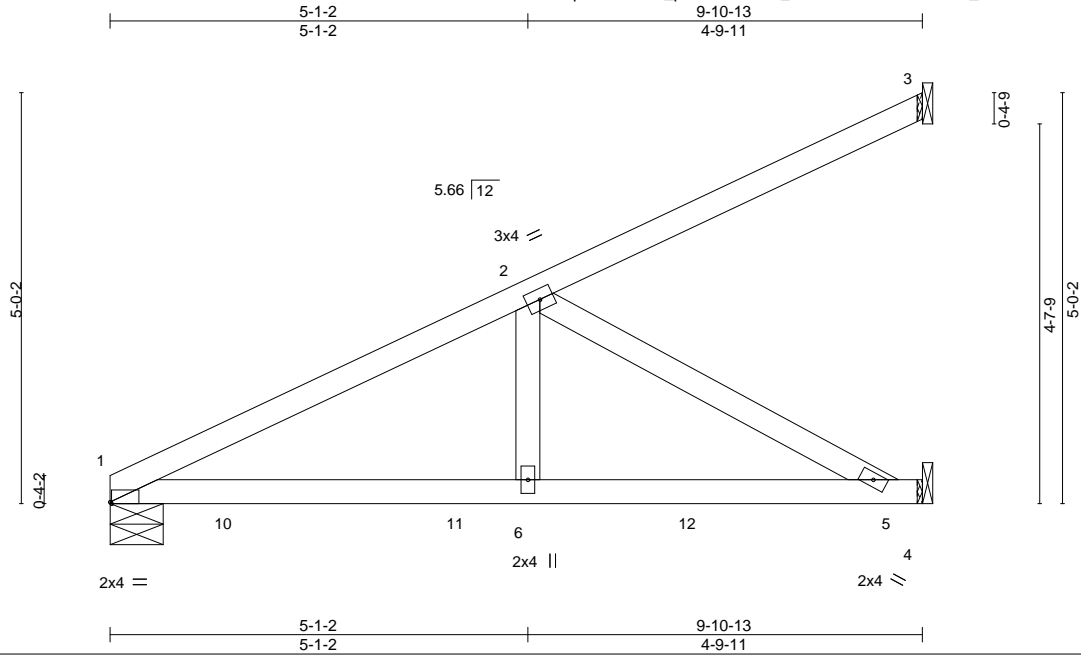


Plate Offsets (X,Y)-- [1:0-0-3,Edge]

LOADING (psf)	SPACING-		CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.09	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.15	5-6	>799	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.08	5-6	>999	240	Weight: 42 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=0-7-12, 3=Mechanical, 4=Mechanical  
Max Horz 1=134(LC 8)  
Max Uplift 1=-86(LC 8), 3=-44(LC 8), 4=-141(LC 8)  
Max Grav 1=533(LC 28), 3=114(LC 1), 4=525(LC 1)

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

TOP CHORD 1-2=-937/187  
BOT CHORD 1-6=-256/804, 5-6=-256/804  
WEBS 2-6=-135/487, 2-5=-915/292

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); 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) 1, 3 except (jt=lb) 4=141.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 14 lb up at 1-5-4, 39 lb down and 14 lb up at 1-5-5, 62 lb down and 51 lb up at 4-3-4, 48 lb down and 43 lb up at 4-3-4, and 142 lb down and 85 lb up at 7-1-3, and 132 lb down and 82 lb up at 7-1-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 4-7=-20  
Concentrated Loads (lb)  
Vert: 10=0(F=0, B=0) 11=-110(F=-62, B=-48) 12=-274(F=-142, B=-132)

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MiTek USA, Inc. FL Cert 6634  
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Date:

February 3, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	D1	Roof Special	1	1	T22707785

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:46 2021 Page 1

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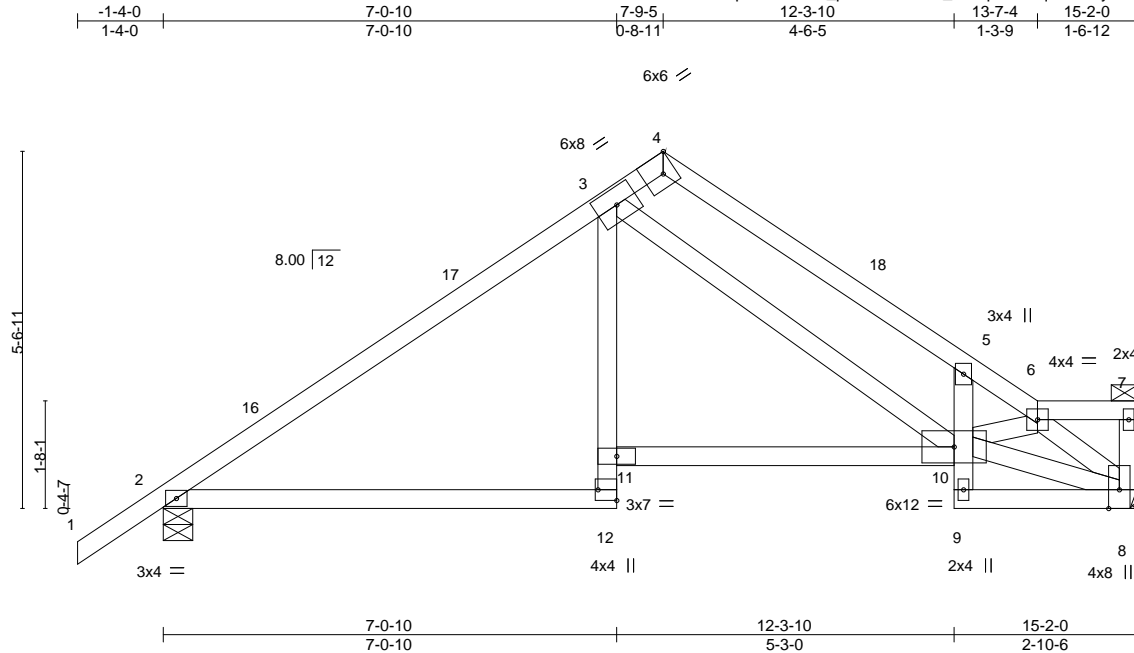


Plate Offsets (X,Y)-- [4:0-2-5,Edge], [12:Edge,0-3-8]

LOADING (psf)	SPACING-		CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.67	Vert(LL)	-0.13 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.57	Vert(CT)	-0.28 10-11	>651	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.13	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.11 10-11	>999	240		
								Weight: 80 lb	FT = 15%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD 2x4 SP No.2		TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2			2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SP No.2		BOT CHORD	Rigid ceiling directly applied.

**REACTIONS.** (size) 8=Mechanical, 2=0-5-8  
Max Horz 2=103(LC 11)  
Max Uplift 8=-35(LC 12), 2=-79(LC 12)  
Max Grav 8=597(LC 1), 2=684(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-749/111, 3-4=-481/150, 4-5=-790/155, 5-6=-940/106  
BOT CHORD 2-12=-46/526, 3-11=0/285, 10-11=-27/510  
WEBS 3-10=-51/295, 8-10=-33/568, 6-8=-958/114

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2R) 7-9-5 to 10-9-5, Interior(1) 10-9-5 to 15-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707786
ZEDICKS	D2	Roof Special	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:47 2021 Page 1

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6x6 //

Scale = 1:35.8

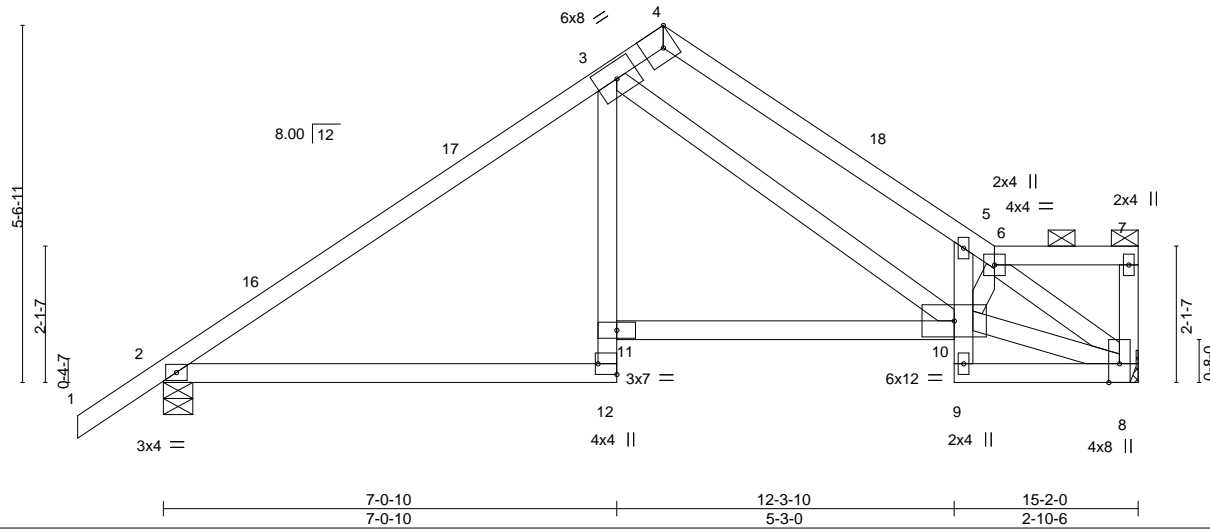


Plate Offsets (X,Y)-- [4:0-2-5,Edge], [12:Edge,0-3-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.67	Vert(LL)	-0.13 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.28 10-11	>654	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.11 10-11	>999	240		
								Weight: 82 lb	FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 6-7.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 8=Mechanical, 2=0-5-8  
Max Horz 2=99(LC 11)  
Max Uplift 8=37(LC 12), 2=78(LC 12)  
Max Grav 8=597(LC 1), 2=684(LC 1)

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

TOP CHORD 2-3=749/109, 3-4=480/148, 4-5=787/150, 5-6=990/108  
BOT CHORD 2-12=58/526, 3-11=0/285, 10-11=42/511, 5-10=0/416  
WEBS 3-10=46/292, 8-10=38/600, 6-8=979/114

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2R) 7-9-5 to 10-9-5, Interior(1) 10-9-5 to 15-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

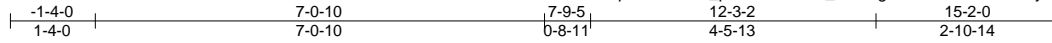


Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	D3	Roof Special	1	1	T22707787

SANTA FE TRUSS COMPANY INC, BELL FL

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7x6

Scale = 1:36.2

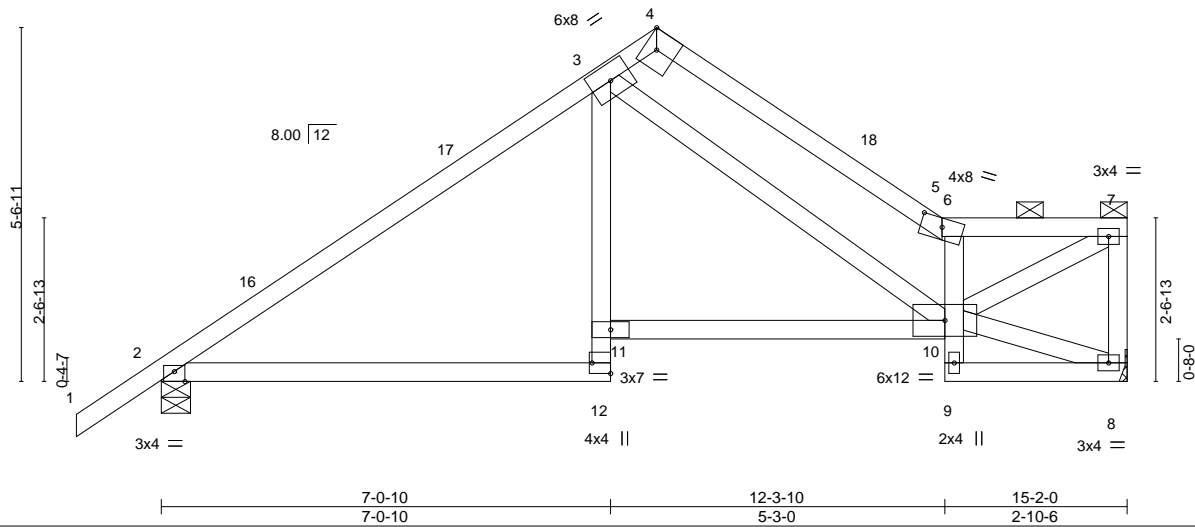


Plate Offsets (X,Y)-- [2:0-2-0,Edge], [5:0-4-0,0-1-11], [12:Edge,0-3-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.68	Vert(LL)	-0.13 10-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.59	Vert(CT)	-0.28 10-11	>649	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.19	Horz(CT)	0.11 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.11 10-11	>999	240	Weight: 81 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 8=Mechanical, 2=0-5-8  
Max Horz 2=103(LC 12)  
Max Uplift 8=-38(LC 12), 2=-76(LC 12)  
Max Grav 8=597(LC 1), 2=684(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-748/106, 3-4=-486/145, 4-5=-807/145, 5-6=-673/70, 6-7=-726/86, 7-8=-548/77  
BOT CHORD 2-12=-70/525, 3-11=0/285, 10-11=-55/505, 6-10=-511/137  
WEBS 3-10=-41/309, 7-10=-99/828

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2R) 7-9-5 to 10-9-5, Interior(1) 10-9-5 to 15-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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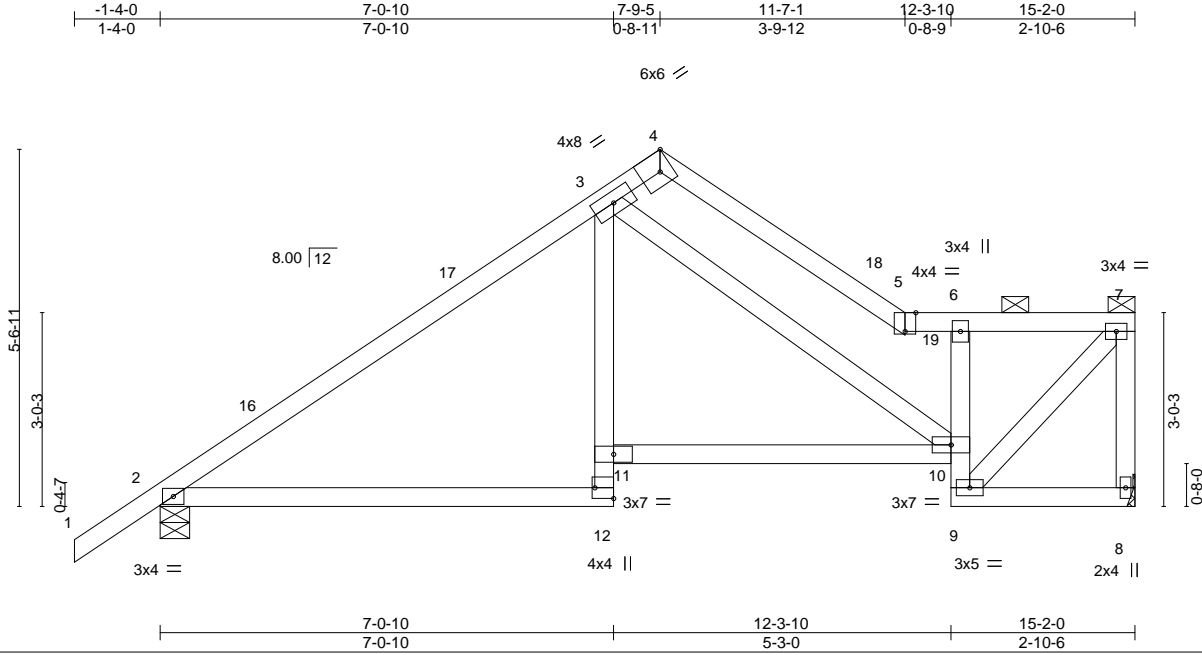
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	D4	Roof Special	1	1	T22707788

SANTA FE TRUSS COMPANY INC, BELL FL

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Scale = 1:35.8

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.12 10-11 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.27 10-11 >677 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.12 8 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.11 10-11 >999 240				
								Weight: 80 lb		FT = 15%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SP No.2		2-0-0 oc purlins (6-0-0 max.): 5-7.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

**REACTIONS.** (size) 8=Mechanical, 2=0-5-8  
Max Horz 2=116(LC 12)  
Max Uplift 8=41(LC 12), 2=-74(LC 12)  
Max Grav 8=597(LC 1), 2=684(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-752/102, 3-4=-469/139, 4-5=-719/131, 5-6=-620/72, 6-7=-499/69, 7-8=-604/92  
BOT CHORD 2-12=-82/530, 3-11=0/285, 10-11=-69/524, 9-10=-461/87, 6-10=-487/135  
WEBS 7-9=-99/714

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2R) 7-9-5 to 10-9-5, Interior(1) 10-9-5 to 15-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 3, 2021

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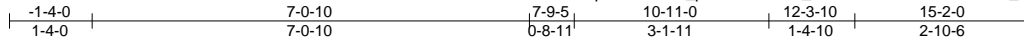
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	D5	Roof Special	1	1	T22707789

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:50 2021 Page 1

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6x6

Scale = 1:37.2

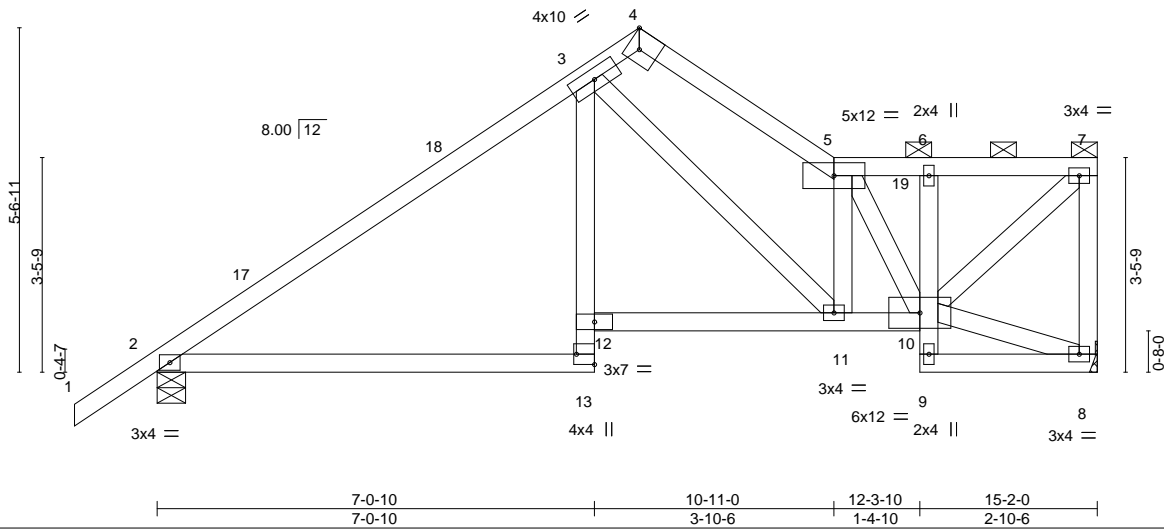


Plate Offsets (X,Y)-- [4:Edge,0-3-8], [13:Edge,0-3-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.72	Vert(LL)	-0.09 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.53	Vert(CT)	-0.19 11-12	>964	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.08 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.08 11-12	>999	240	Weight: 90 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 8=Mechanical, 2=0-5-8  
Max Horz 2=129(LC 12)  
Max Uplift 8=43(LC 12), 2=-72(LC 12)  
Max Grav 8=597(LC 1), 2=684(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-748/97, 3-4=-466/119, 4-5=-706/121, 5-6=-535/78, 6-7=-515/75, 7-8=-559/94  
BOT CHORD 2-13=-92/528, 11-12=-80/503, 10-11=-74/619, 6-10=-301/78  
WEBS 7-10=-104/706

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2E) 7-9-5 to 10-11-0, Interior(1) 10-11-0 to 15-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.
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Date:

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



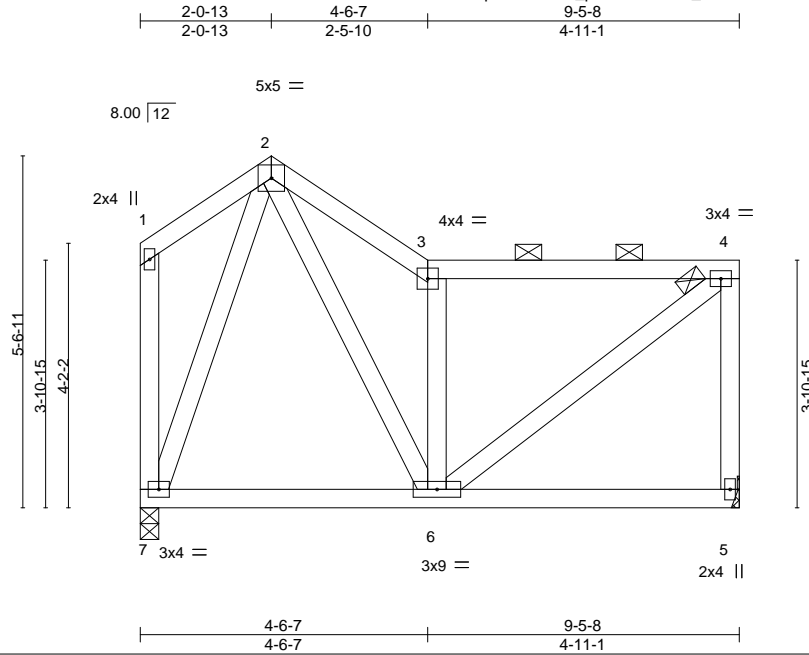
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	D6	Roof Special	1	1	T22707790

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:50 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	Vert(LL)	-0.01	5-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.18	Vert(CT)	-0.02	5-6	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.00	6	>999	Weight: 69 lb	FT = 15%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and
BOT CHORD	2x4 SP No.2		2-0-0 oc purlins (6-0-0 max.): 3-4.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.

**REACTIONS.** (size) 5=Mechanical, 7=0-3-8  
Max Horz 7=29(LC 11)  
Max Uplift 5=-41(LC 9), 7=-26(LC 12)  
Max Grav 5=367(LC 1), 7=367(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-376/126, 3-4=-254/50, 4-5=-322/108  
WEBS 2-6=-101/378, 3-6=-417/191, 4-6=-54/290, 2-7=-281/82

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 4-6-7, Interior(1) 4-6-7 to 9-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



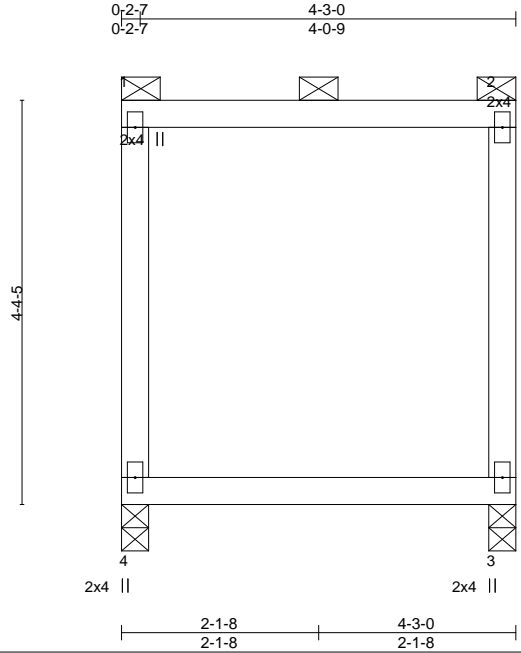
6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707791
ZEDICKS	D7	Roof Special	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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Scale = 1:24.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.03	3-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.27	Vert(CT)	-0.04	3-4	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.00	3-4	>999		
	Code FBC2020/TPI2014						Weight: 24 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 3=0-3-8, 4=0-3-8  
Max Uplift 3=-27(LC 8), 4=-27(LC 8)  
Max Grav 3=199(LC 17), 4=199(LC 17)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

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



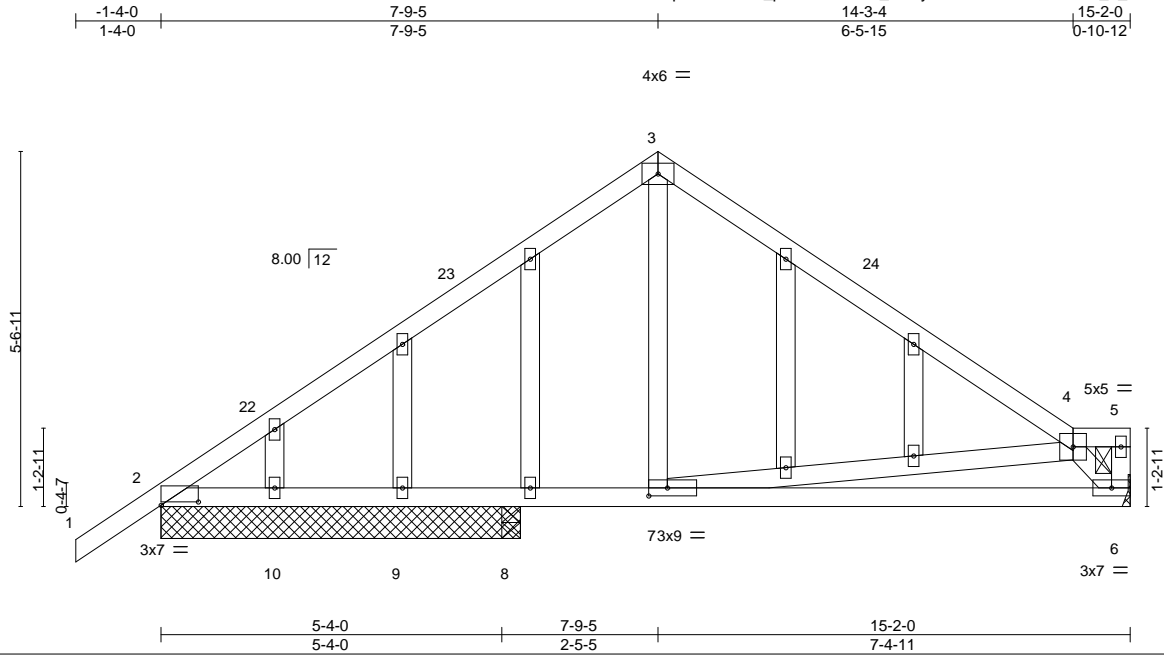
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Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	DET	Roof Special Structural Gable	1	1	T22707792

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:52 2021 Page 1  
ID:sWPxpV2x?0AHY\_pSkPQEHzG\_Er-1yvHxJvNSrvHTDP1fh09\_L\_i16lcamAGKV13Uzov6b



Scale = 1:36.1

Plate Offsets (X,Y)--		[2:0-7-0,0-0-10], [7:0-3-8,0-1-8]			
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	in (loc) l/defl L/d	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(LL) -0.06 6-7 >999 360	GRIP
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Vert(CT) -0.13 6-7 >849 240	244/190
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Horz(CT) 0.01 6 n/a n/a	
				Wind(LL) 0.01 6-7 >999 240	Weight: 90 lb FT = 15%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.): 4-5.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
OTHERS 2x4 SP No.2	

**REACTIONS.** All bearings 5-7-8 except (jt=length) 6=Mechanical, 8=0-3-8.  
(lb) - Max Horz 2=108(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 9, 10, 8  
Max Grav All reactions 250 lb or less at joint(s) 9, 8 except 2=418(LC 1), 6=554(LC 1), 10=322(LC 21), 2=418(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-624/100, 3-4=-596/101  
BOT CHORD 2-10=0/411, 9-10=0/411, 8-9=0/411, 7-8=0/411, 6-7=-121/561  
WEBS 3-7=0/269, 4-6=-783/287

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-9-5, Exterior(2R) 7-9-5 to 10-9-5, Interior(1) 10-9-5 to 15-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6, 9, 10, 8, 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 3, 2021

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	EET	Common Supported Gable	1	1	T22707793

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:53 2021 Page 1

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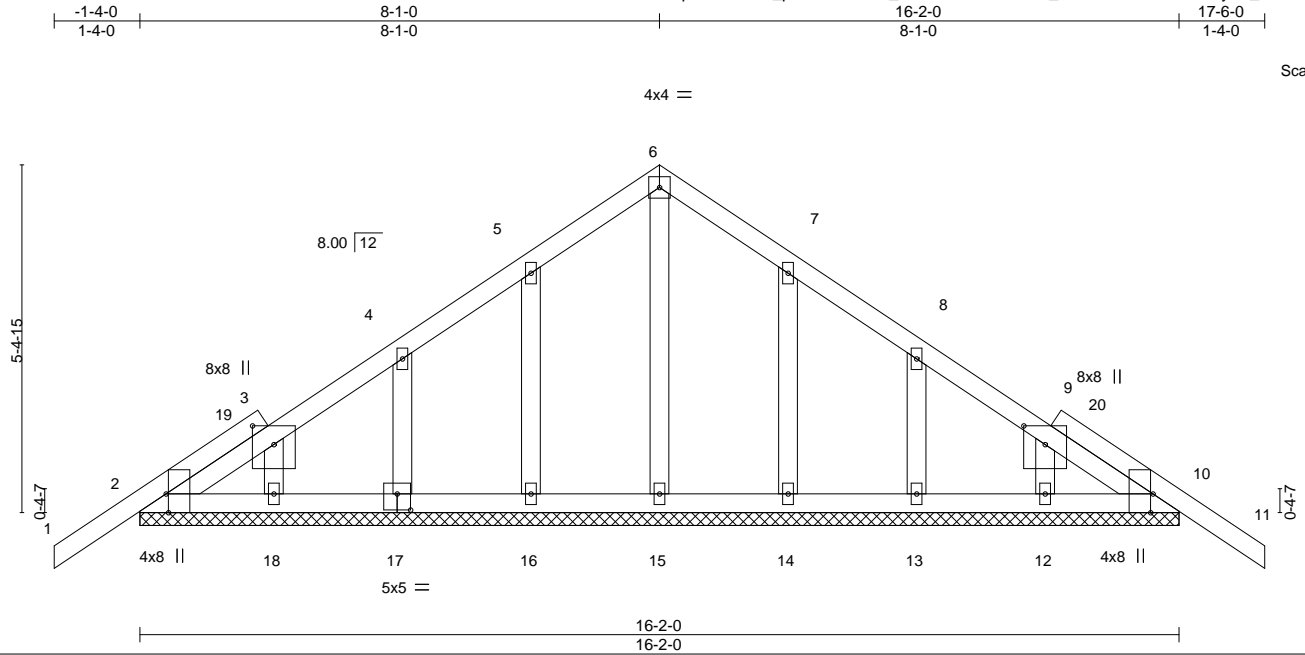


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-3-8,0-4-0], [9:0-3-8,0-4-0], [10:0-3-8,Edge], [17:0-2-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.12	Vert(LL)	-0.00	11	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.03	Vert(CT)	-0.01	11	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.05	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S						Weight: 90 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

- All bearings 16-2-0.  
(lb) - Max Horz 2=118(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 18, 14, 13, 12  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 8-1-0, Corner(3R) 8-1-0 to 11-1-0, Exterior(2N) 11-1-0 to 17-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 18, 14, 13, 12.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



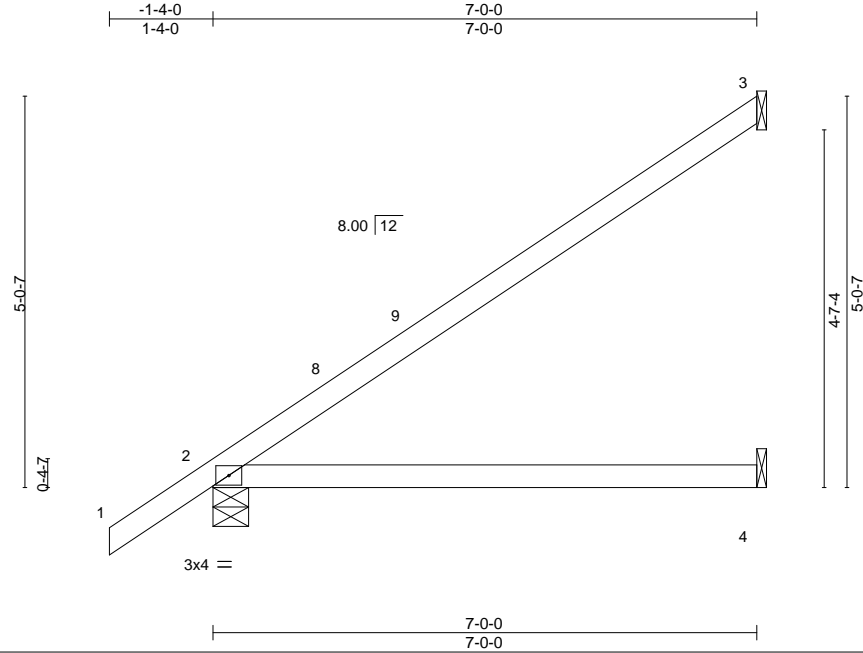
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707794
ZEDICKS	EJ7	Jack-Open	4	1	

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Scale = 1:29.7

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 0.60	Vert(LL) -0.09 4-7	>936	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.51	Vert(CT) -0.22 4-7	>386	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.01 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL) 0.10 4-7	>868	240	Weight: 26 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=172(LC 12)  
Max Uplift 3=-80(LC 12), 2=-20(LC 12)  
Max Grav 3=190(LC 17), 2=365(LC 1), 4=126(LC 3)

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

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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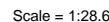
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**ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**



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SANTA FE TRUSS COMPANY INC, BELL FL 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:55 2021 Page 1  
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<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-14 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

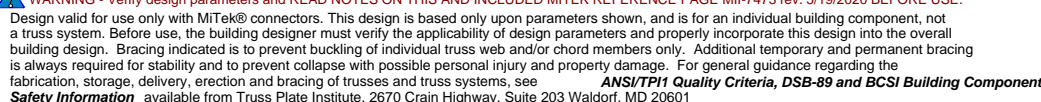
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-915/49  
 BOT CHORD 1-6=-106/722, 5-6=-106/722  
 WEBS 2-6=-161/1587, 2-5=-1548/228

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional); 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=218.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1271 lb down and 263 lb up at 5-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 1-4=-20  
Concentrated Loads (lb)  
Vert: 6=-1271(F) 9=-99 10=-179

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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	F	ATTIC	2	1	T22707796

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:56 2021 Page 1

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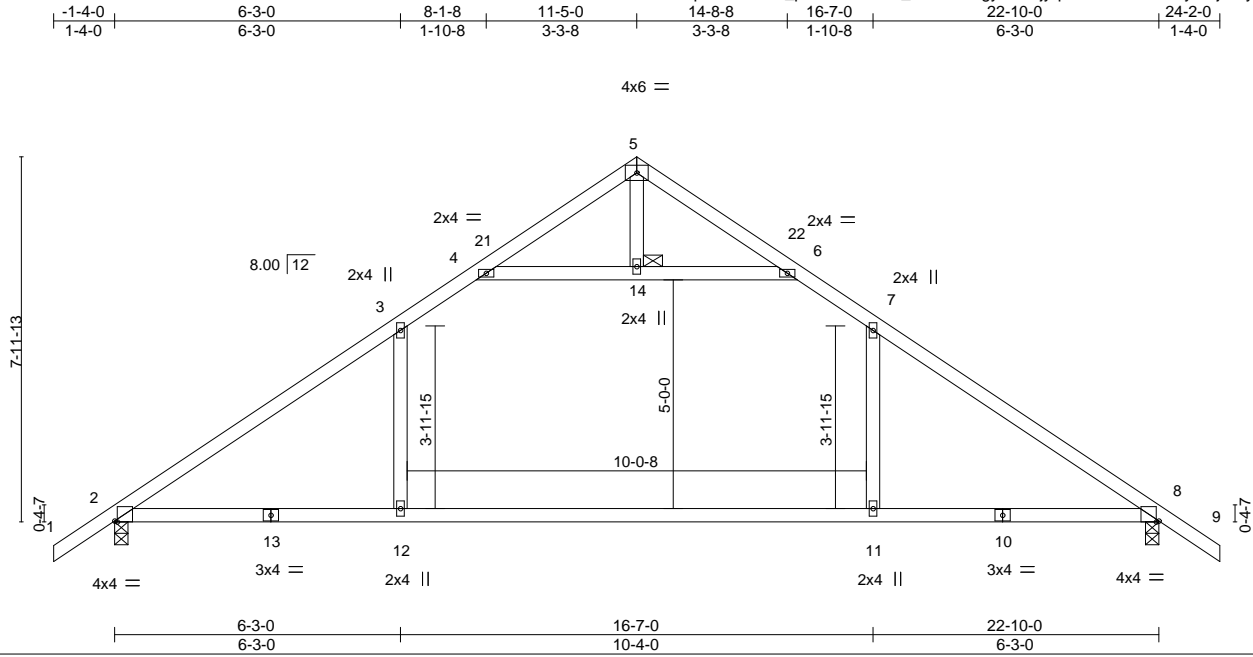


Plate Offsets (X,Y)-- [2:0-0-11,Edge], [8:0-0-11,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.83	Vert(LL) -0.54	11-12	>507	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.85	Vert(CT) -0.99	11-12	>277	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.17	Horz(CT) 0.03	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL) -0.31	12-17	>894	240	Weight: 105 lb	FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.1  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 10-13: 2x4 SP SS  
 WEBS 2x4 SP No.2

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 JOINTS 1 Brace at Jt(s): 14

#### REACTIONS.

(size) 2=0-3-8, 8=0-3-8  
 Max Horz 2=-170(LC 10)  
 Max Uplift 2=-35(LC 12), 8=-35(LC 12)  
 Max Grav 2=1156(LC 18), 8=1156(LC 19)

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

TOP CHORD 2-3=-1678/0, 3-4=-1230/73, 6-7=-1230/73, 7-8=-1678/0  
 BOT CHORD 2-12=0/1311, 11-12=0/1311, 8-11=0/1311  
 WEBS 4-14=-1361/53, 6-14=-1361/53, 3-12=0/532, 7-11=0/532

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-5-0, Exterior(2R) 11-5-0 to 14-5-0, Interior(1) 14-5-0 to 24-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14
- Bottom chord live load (20.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 11-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
 Tampa, FL 36610





Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
ZEDICKS	F1ET	GABLE	1	1	

T22707798

SANTA FE TRUSS COMPANY INC, BELL FL

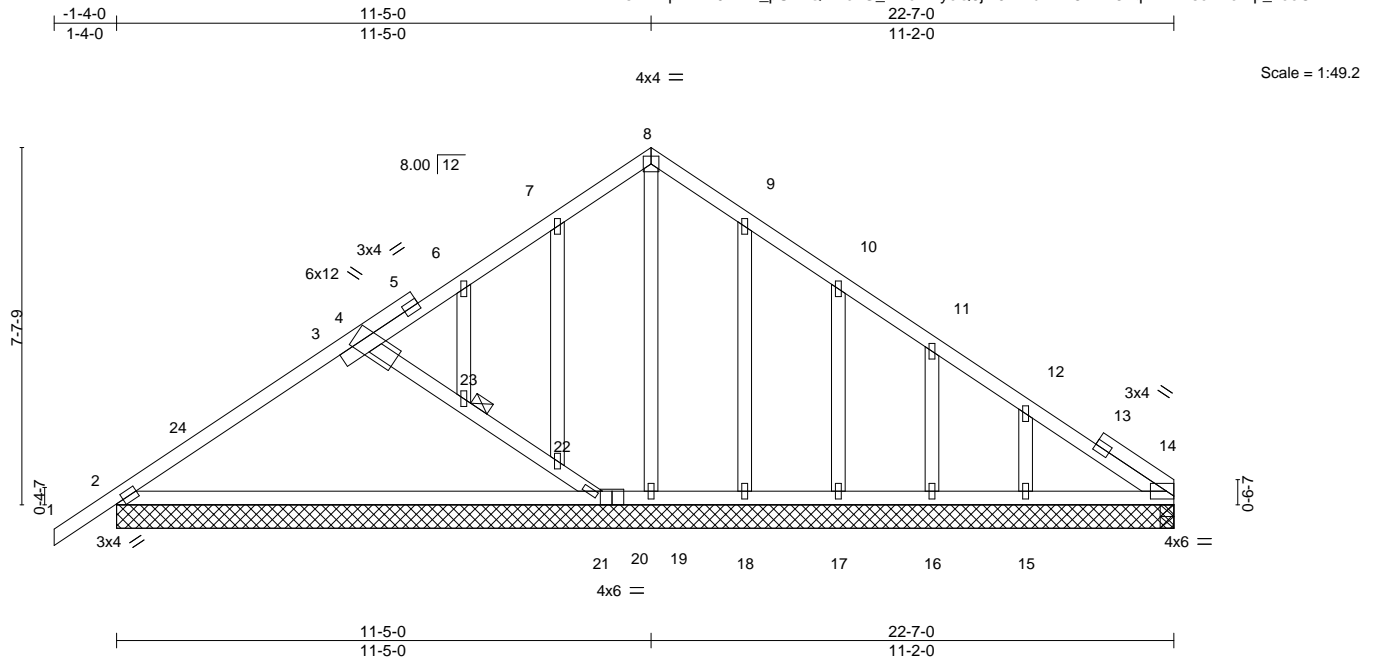
8.430 s Dec 17 2020 MiTek Industries, Inc. Wed Feb 3 17:10:56 2021 Page 1  
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Plate Offsets (X,Y)-- [2:0-2-0,0-1-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.30	Vert(LL) -0.25	2-21	>493	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.93	Vert(CT) -0.51	2-21	>245	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.00	21	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	Wind(LL) -0.01	2-21	>999	240	Weight: 135 lb	FT = 15%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:  
 2-2-0 oc bracing: 2-21.  
 JOINTS 1 Brace at Jt(s): 23

**REACTIONS.**

All bearings 22-7-0.

(lb) - Max Horz 2=158(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 14, 2, 18, 17, 16, 15 except 19=392(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 14, 14, 19, 18, 17, 16, 15 except 2=431(LC 1), 21=826(LC 3)

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

TOP CHORD 2-24=323/66

BOT CHORD 2-21=18/277

WEBS 4-23=376/210, 22-23=356/203, 21-22=431/251

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 11-5-0, Corner(3R) 11-5-0 to 14-5-0, Exterior(2N) 14-5-0 to 22-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 2, 18, 17, 16, 15 except (jt=lb) 19=392.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
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 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 3, 2021

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

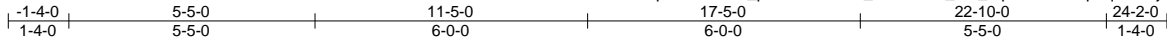
6904 Parke East Blvd.  
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	FET	GABLE	1	1	T22707799

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:31:59 2021 Page 1

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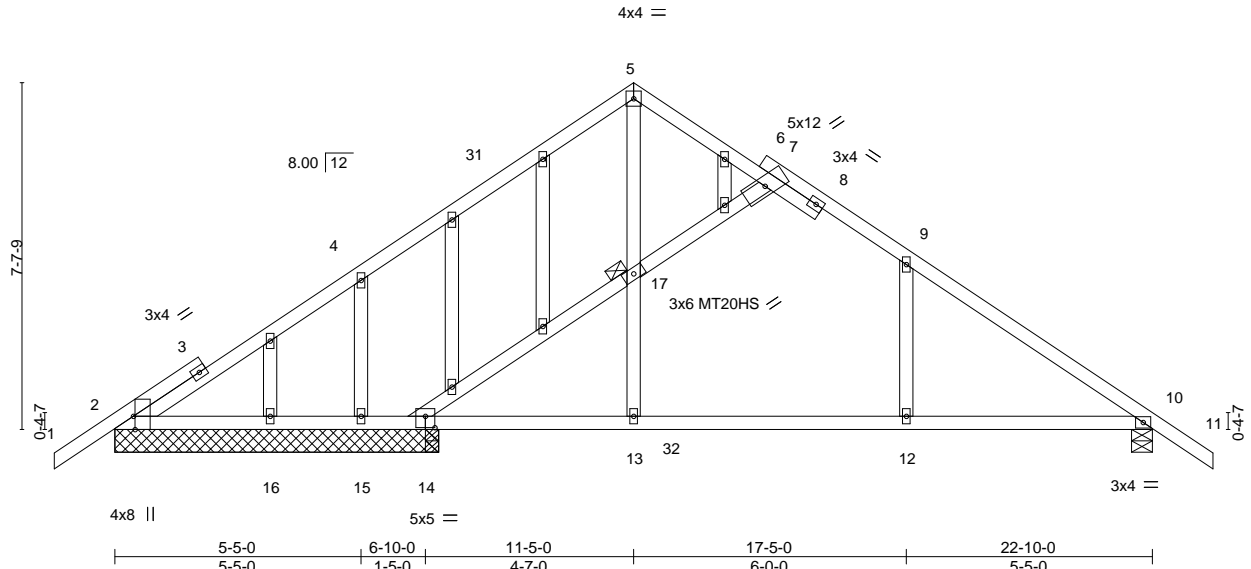


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [14:0-2-8,0-3-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.82	Vert(LL)	-0.20 12	>951	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.61	Vert(CT)	-0.36 12-30	>529	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES		WB 0.41	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.14 12-30	>999	240		
								Weight: 135 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.  
JOINTS 1 Brace at Jt(s): 17

#### REACTIONS.

All bearings 7-1-8 except (jt=length) 10=0-5-8.

(lb) - Max Horz 2=163(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 14, 10 except 15=177(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 16 except 2=374(LC 17), 14=418(LC 18), 14=322(LC 1), 15=445(LC 17), 10=894(LC 18), 2=354(LC 1)

#### FORCES.

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

TOP CHORD 2-4=342/0, 4-5=418/25, 5-7=455/58, 7-9=745/85, 9-10=1001/18

BOT CHORD 2-16=2/341, 15-16=2/341, 14-15=2/341, 13-14=0/758, 12-13=0/757, 10-12=0/757

WEBS 13-17=0/345, 5-17=0/344, 7-17=675/127, 9-12=0/264, 14-17=674/123, 4-15=412/181

#### 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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-5-0, Exterior(2R) 11-5-0 to 14-5-10, Interior(1) 14-5-10 to 24-2-0 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) All plates are MT20 plates unless otherwise indicated.

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 100 lb uplift at joint(s) 14, 10 except (jt=lb) 15=177.

11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

February 3, 2021

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6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	G	Common	4	1	T22707800

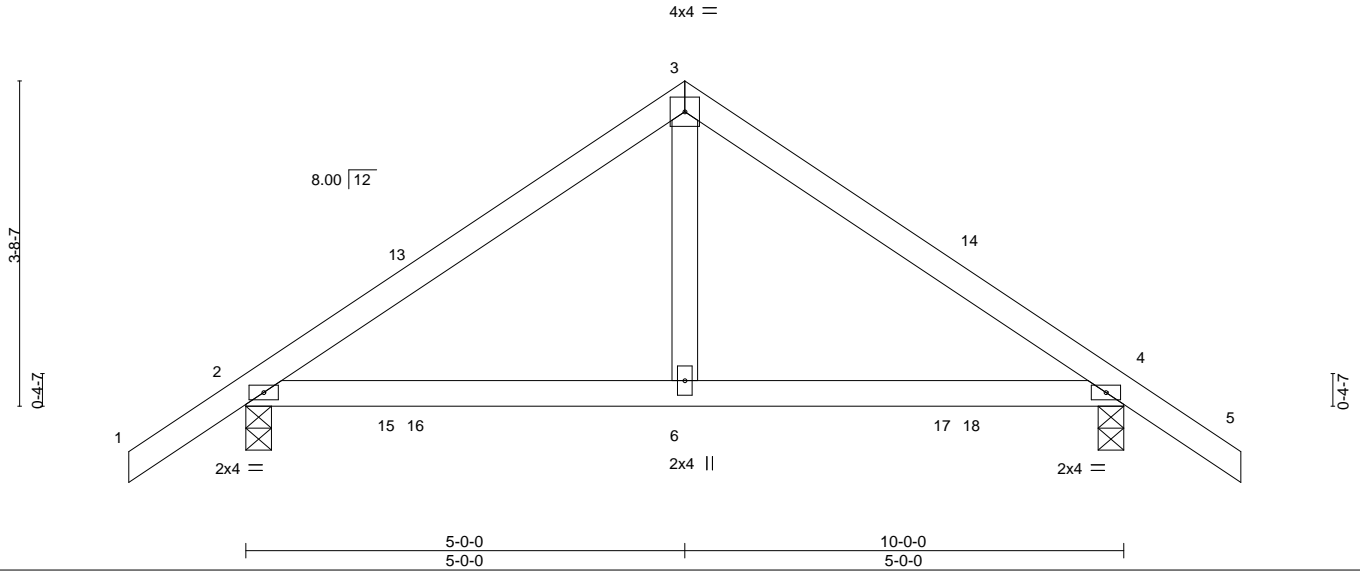
SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:00 2021 Page 1

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Scale = 1:26.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	-0.02	6-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.25	Vert(CT)	-0.03	6-9	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.05	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.03	6-9	>999		
	Code FBC2020/TPI2014						Weight: 43 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=-84(LC 10)  
Max Uplift 2=-166(LC 12), 4=-166(LC 12)  
Max Grav 2=480(LC 1), 4=480(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-467/234, 3-4=-467/234  
BOT CHORD 2-6=-75/331, 4-6=-75/331

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-0-0, Exterior(2R) 5-0-0 to 8-0-0, Interior(1) 8-0-0 to 11-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=166, 4=166.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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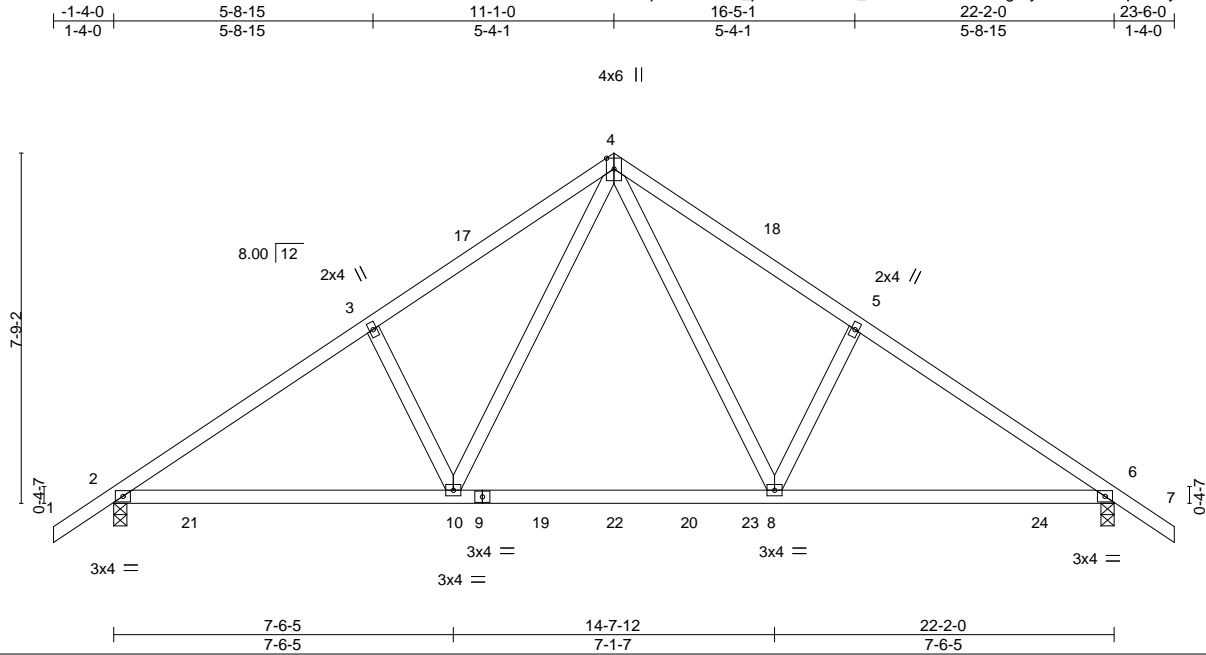


Job	Truss	Truss Type	Qty	Ply	T22707802
ZEDICKS	H	Common	6	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:02 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	-0.10 8-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.58	Vert(CT)	-0.15 10-13	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.37	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.13 8-16	>999	240		
	Code FBC2020/TPI2014						Weight: 113 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 2=0-3-8, 6=0-3-8  
Max Horz 2=-165(LC 10)  
Max Uplift 2=-317(LC 12), 6=-317(LC 12)  
Max Grav 2=1034(LC 2), 6=1034(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1358/527, 3-4=-1263/585, 4-5=-1263/587, 5-6=-1358/529  
BOT CHORD 2-10=-342/1097, 8-10=-142/727, 6-8=-339/1097  
WEBS 4-8=-306/600, 5-8=-316/176, 4-10=-306/600, 3-10=-316/176

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-1-0, Exterior(2R) 11-1-0 to 14-1-0, Interior(1) 14-1-0 to 23-6-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 6=317.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Date:

February 3, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	T22707803
ZEDICKS	H1	Common	5	1	

SANTA FE TRUSS COMPANY INC, BELL FL

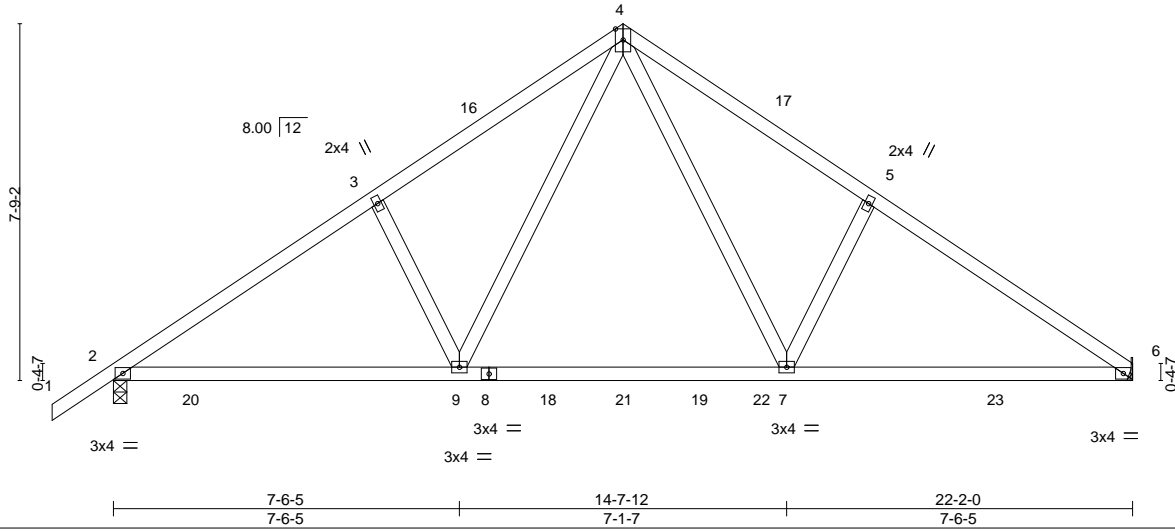
8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:03 2021 Page 1

ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-D44RF41HsDjlvl8pUjxxfcFSrUHWtonYf6yLzov6Q



4x6 ||

Scale = 1:50.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	-0.10	7-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.60	Vert(CT)	-0.16	7-12	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.37	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.13	7-12	>999		
	Code FBC2020/TPI2014						Weight: 111 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 6=Mechanical, 2=0-3-8  
Max Horz 2=161(LC 11)  
Max Uplift 6=-273(LC 12), 2=-319(LC 12)  
Max Grav 6=965(LC 2), 2=1036(LC 2)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-1361/528, 3-4=-1267/586, 4-5=-1273/574, 5-6=-1367/516  
BOT CHORD 2-9=-370/1100, 7-9=-172/730, 6-7=-365/1107  
WEBS 4-7=-293/611, 5-7=-324/179, 4-9=-306/600, 3-9=-317/176

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-1-0, Exterior(2R) 11-1-0 to 14-1-0, Interior(1) 14-1-0 to 22-2-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=273, 2=319.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707804
ZEDICKS	H2	Common	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:04 2021 Page 1

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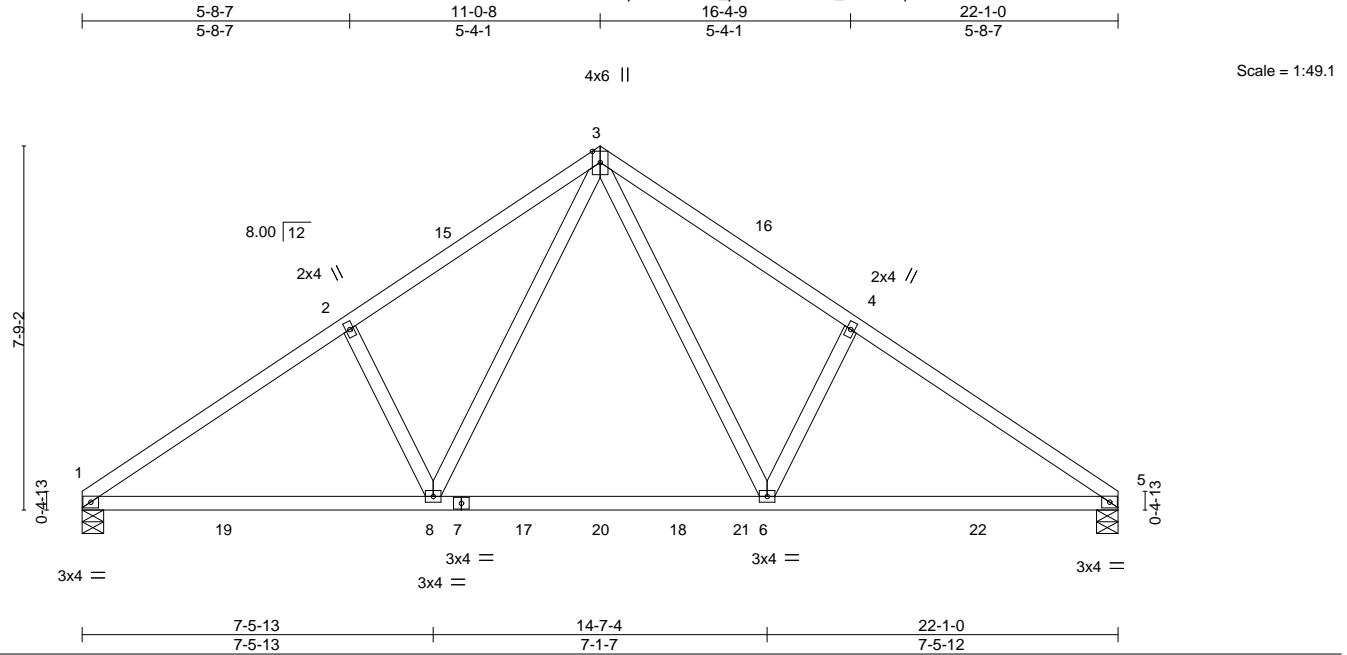


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	-0.10	6-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.58	Vert(CT)	-0.15	8-11	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.35	Horz(CT)	0.03	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.12	8-11	>999		
	Code FBC2020/TPI2014						Weight: 108 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 1=0-5-8, 5=0-5-8  
Max Horz 1=-147(LC 10)  
Max Uplift 1=-274(LC 12), 5=-274(LC 12)  
Max Grav 1=963(LC 2), 5=963(LC 2)

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

TOP CHORD 1-2=-1359/511, 2-3=-1265/568, 3-4=-1264/569, 4-5=-1359/512  
BOT CHORD 1-8=-369/1098, 6-8=-171/727, 5-6=-361/1098  
WEBS 3-6=-288/602, 4-6=-319/176, 3-8=-289/602, 2-8=-319/176

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-0-8, Exterior(2R) 11-0-8 to 14-0-8, Interior(1) 14-0-8 to 22-1-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=274, 5=274.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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



6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	HET	Common Supported Gable	1	1	T22707805

SANTA FE TRUSS COMPANY INC, BELL FL

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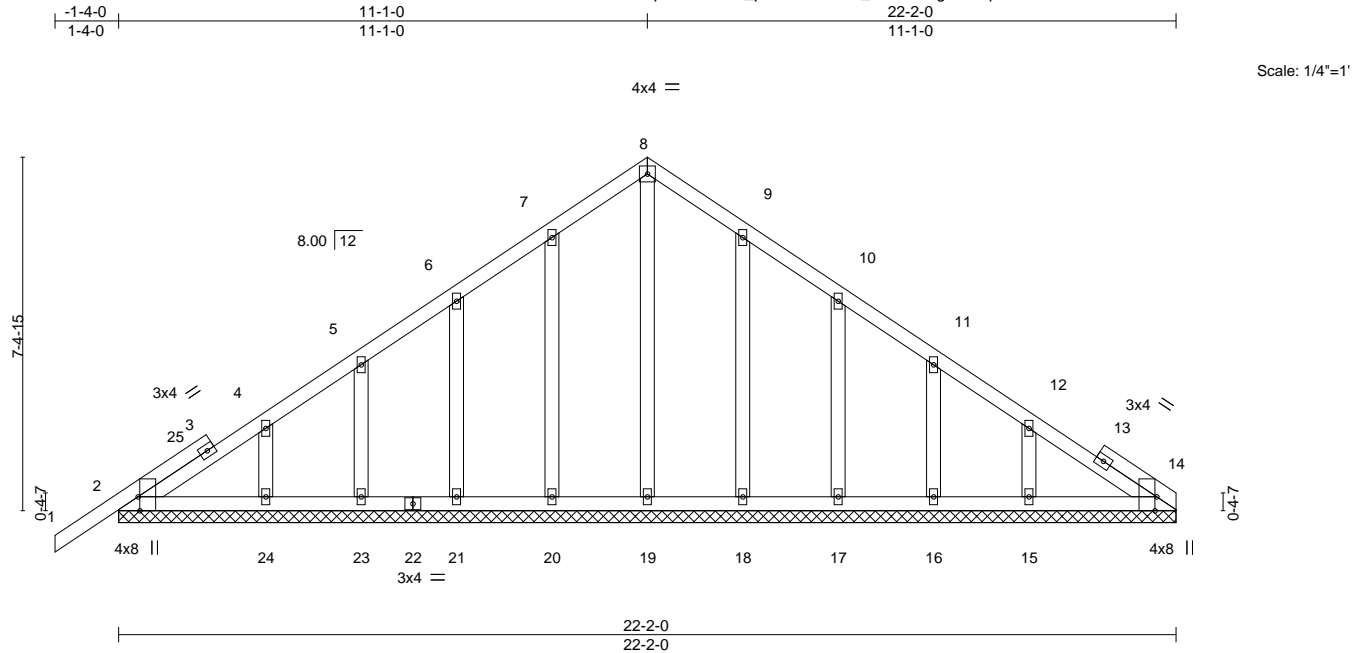


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [14:0-3-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.06	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-S					Weight: 132 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 22-2-0.  
(lb) - Max Horz 2=154(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 23, 24, 18, 17, 16, 15  
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 19, 20, 21, 23, 24, 18, 17, 16, 15

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 11-1-0, Corner(3R) 11-1-0 to 14-1-0, Exterior(2N) 14-1-0 to 22-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 23, 24, 18, 17, 16, 15.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
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Date:

February 3, 2021

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

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



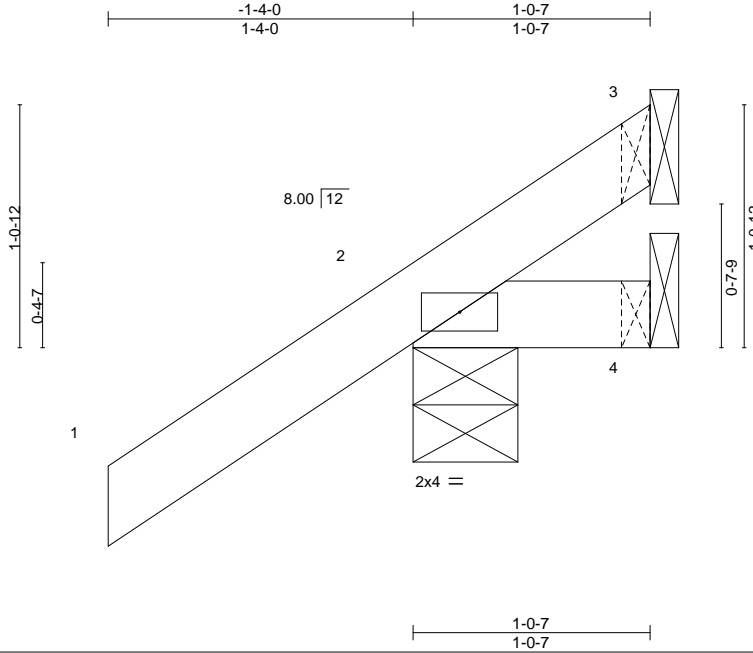
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	J01	Jack-Open	6	1	T22707806

SANTA FE TRUSS COMPANY INC, BELL FL

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	0.00	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.04	Vert(CT)	0.00	7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	-0.00	7	>999		
	Code FBC2020/TPI2014						Weight: 6 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=58(LC 12)  
Max Uplift 3=-2(LC 9), 2=-79(LC 12), 4=-13(LC 1)  
Max Grav 3=9(LC 8), 2=173(LC 1), 4=24(LC 12)

**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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.

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Julius Lee PE No. 34869  
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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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



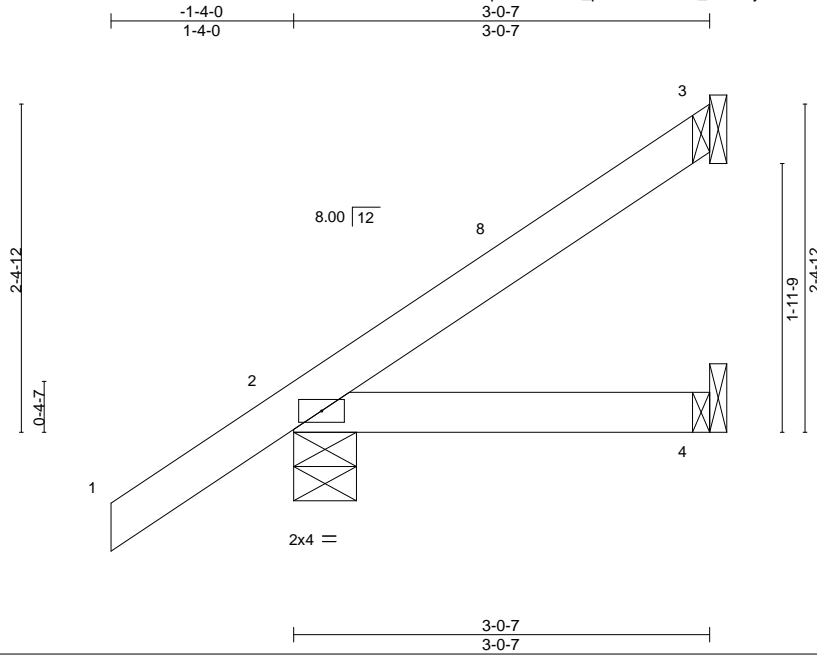
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	J03	Jack-Open	4	1	T22707807

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:07 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.00	4-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.08	Vert(CT)	-0.01	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP	Wind(LL)	-0.00	4-7	>999		
	Code FBC2020/TPI2014						Weight: 13 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=96(LC 12)  
Max Uplift 3=-27(LC 12), 2=-44(LC 12)  
Max Grav 3=71(LC 17), 2=217(LC 1), 4=53(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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-11-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

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Julius Lee PE No. 34869  
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6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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



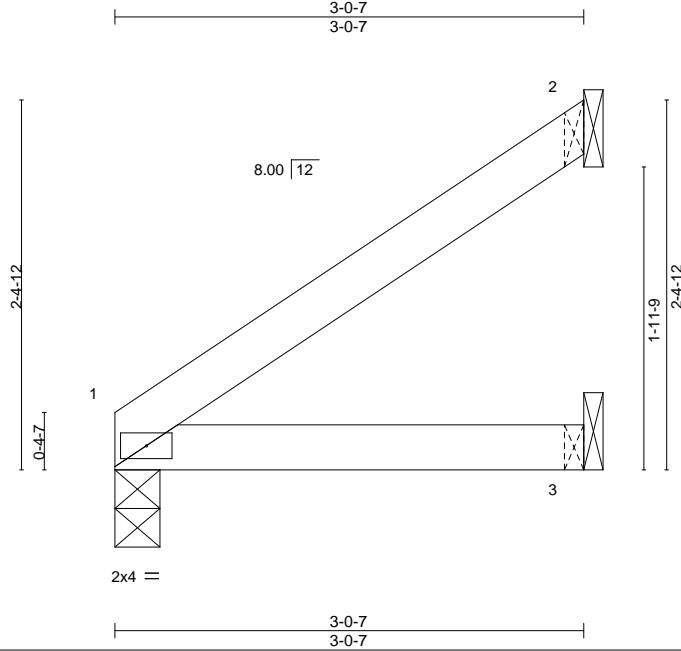
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707808
ZEDICKS	J03A	Jack-Open	2	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:07 2021 Page 1

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Scale = 1:14.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.11	Vert(LL)	-0.00	3-6	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.10	Vert(CT)	-0.01	3-6	>999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP	Wind(LL)	0.01	3-6	>999	Weight: 10 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS.

(size) 1=0-3-8, 2=Mechanical, 3=Mechanical  
Max Horz 1=57(LC 12)  
Max Uplift 2=-34(LC 12)  
Max Grav 1=119(LC 1), 2=79(LC 17), 3=56(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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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

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

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



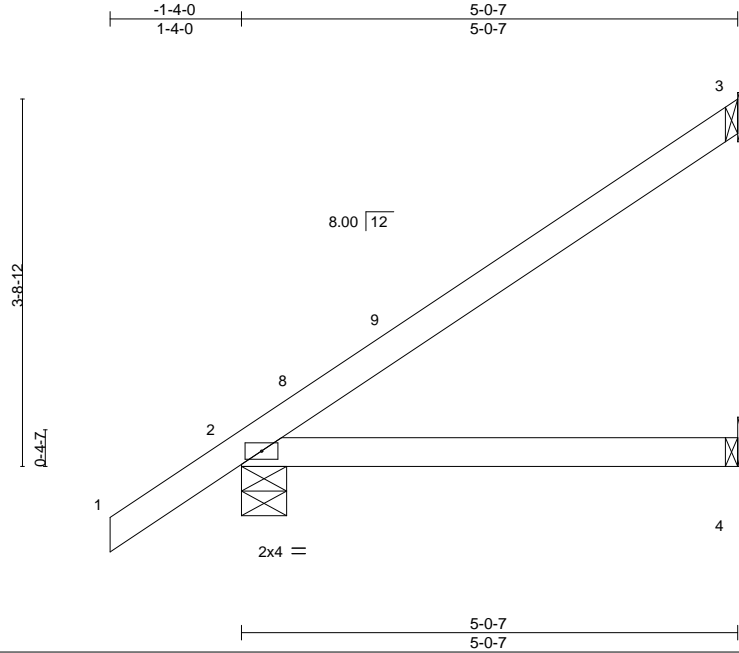
6904 Parke East Blvd.  
Tampa, FL 33610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	J05	Jack-Open	4	1	T22707809

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:08 2021 Page 1  
ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-Z1tKln5Pglw0Ogd6b2JvejfUXTe5MrPXqNtdZzov6L



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	-0.02	4-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.25	Vert(CT)	-0.06	4-7	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.03	4-7	>999		
	Code FBC2020/TPI2014						Weight: 19 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical  
Max Horz 2=134(LC 12)  
Max Uplift 3=-54(LC 12), 2=-30(LC 12)  
Max Grav 3=132(LC 17), 2=290(LC 1), 4=90(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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Date:

February 3, 2021

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



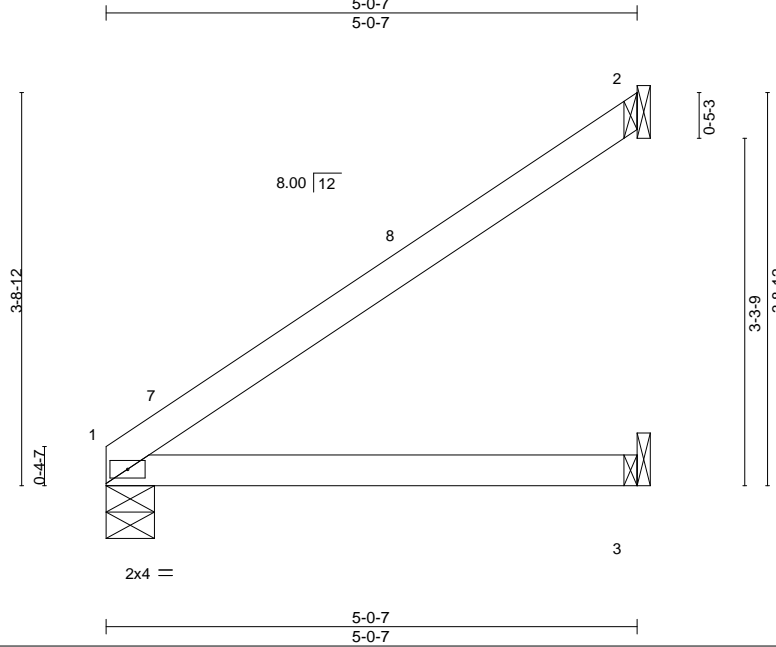
6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	J05A	JACK-OPEN	2	1	T22707810

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:13 2021 Page 1

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Scale = 1:21.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.03	3-6	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	-0.06	3-6	>947	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.04	3-6	>999	240	
									Weight: 17 lb FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 1=0-5-8, 2=Mechanical, 3=Mechanical  
Max Horz 1=96(LC 12)  
Max Uplift 2=-59(LC 12)  
Max Grav 1=199(LC 1), 2=137(LC 17), 3=92(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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-11 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

February 3,2021

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



6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707811
ZEDICKS	K1	Half Hip Girder	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:18 2021 Page 1

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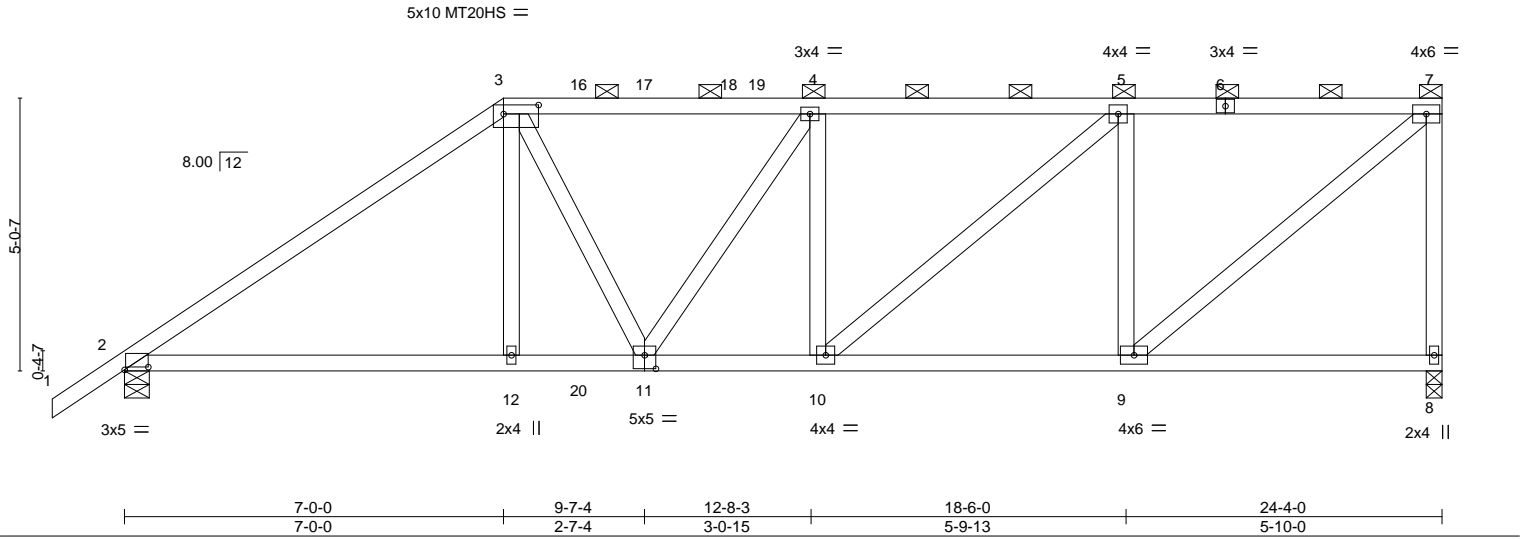
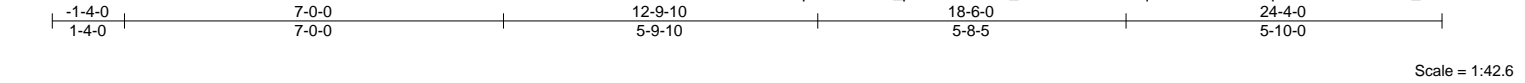


Plate Offsets (X,Y)--										[2:0-5-4,0-0-10], [3:0-7-12,0-2-0], [11:0-2-8,0-3-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		2-0-0		<b>CSI.</b>		<b>DEFL.</b>		in (loc)		l/defl		L/d		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL		1.25		TC 0.98		Vert(LL)		-0.12 11		>999		360		MT20		244/190	
TCDL	10.0	Lumber DOL		1.25		BC 0.97		Vert(CT)		-0.23 10-11		>999		240		MT20HS		187/143	
BCLL	0.0 *	Rep Stress Incr		NO		WB 0.56		Horz(CT)		0.08 8		n/a		n/a					
BCDL	10.0	Code FBC2020/TP12014				Matrix-MS		Wind(LL)		0.10 10-11		>999		240		Weight: 140 lb		FT = 15%	

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP SS *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals, and
3-6: 2x4 SP No.1, 6-7: 2x4 SP No.2	2-0-0 oc purlins (2-7-4 max.): 3-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-8-15 oc bracing.
WEBS 2x4 SP No.2	

**REACTIONS.** (size) 8=0-3-8, 2=0-5-8  
Max Horz 2=174(LC 8)  
Max Uplift 8=305(LC 5), 2=400(LC 8)  
Max Grav 8=1742(LC 1), 2=2432(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=3830/650, 3-4=3520/621, 4-5=3129/554, 5-7=1863/326, 7-8=1689/332  
BOT CHORD 2-12=570/3089, 11-12=571/3111, 10-11=554/3129, 9-10=326/1863  
WEBS 3-12=43/720, 3-11=116/850, 4-11=332/700, 4-10=953/257, 5-10=317/1648,  
5-9=1417/348, 7-9=421/2401

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=305, 2=400.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 171 lb down and 182 lb up at 7-0-0, and 139 lb down and 101 lb up at 8-4-12, and 40 lb down and 30 lb up at 9-7-4 on top chord, and 532 lb down and 135 lb up at 7-0-0, and 86 lb down at 8-4-12, and 1299 lb down and 238 lb up at 9-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-3=-60, 3-7=-60, 8-13=-20

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February 3, 2021

Continued on page 2

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T22707811
ZEDICKS	K1	Half Hip Girder	1	1	

SANTA FE TRUSS COMPANY INC, BELL FL

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**LOAD CASE(S)** Standard  
Concentrated Loads (lb)  
Vert: 3=-158(F) 11=-1299(F) 12=-532(F) 16=-127(F) 17=21(F) 20=-63(F)

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K2	Half Hip	1	1	T22707812

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:SWPxpV2x?0AHY\_pSkPQEHezG\_Er-hYAF1EFZclZASg7csG1yfShbJjycv0RwL03blzov68

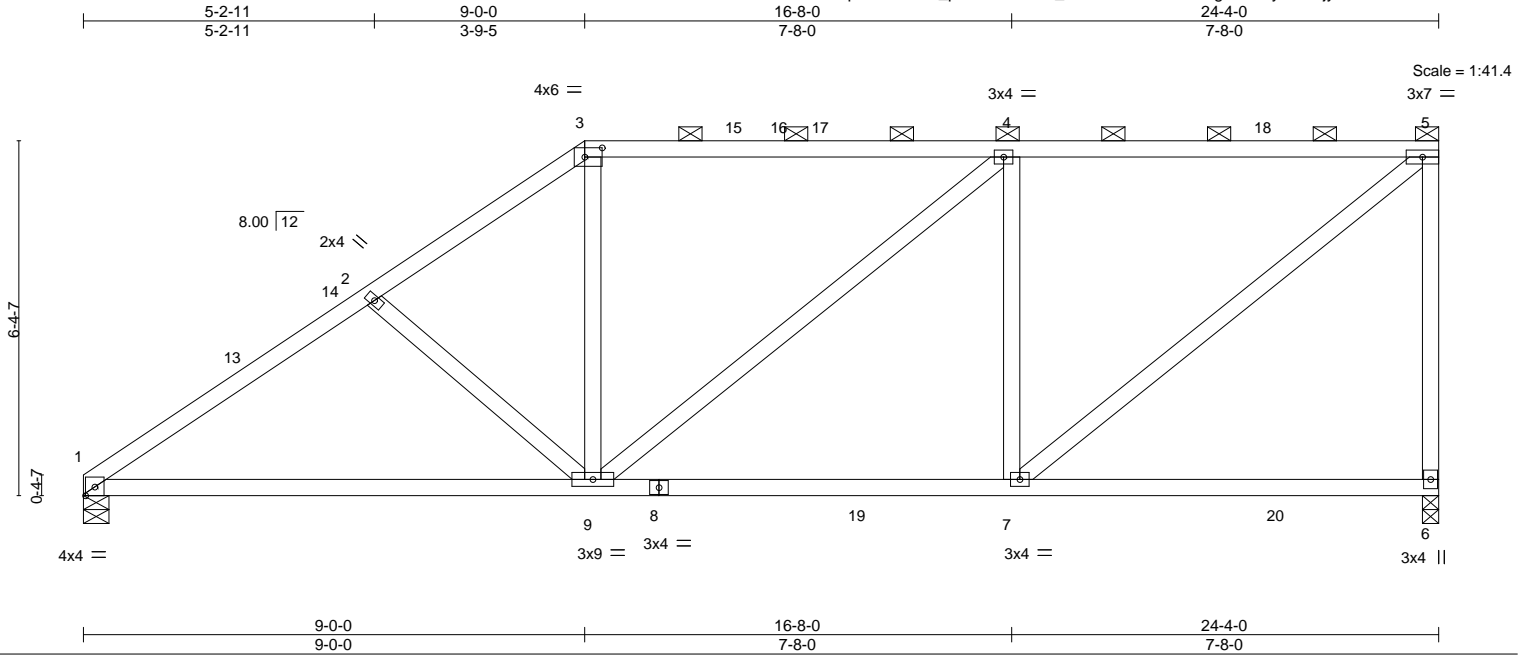


Plate Offsets (X,Y)-- [3:0-3-12,0-2-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.14	9-12	>999	360	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.31	9-12	>950	240	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	0.03	6	n/a	n/a	
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.05	9-12	>999	240	
								Weight: 136 lb	FT = 15%

#### LUMBER-

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

#### REACTIONS.

(size) 1=0-5-8, 6=0-3-8  
Max Horz 1=174(LC 12)  
Max Uplift 1=37(LC 12), 6=135(LC 9)  
Max Grav 1=1099(LC 17), 6=1118(LC 17)

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

TOP CHORD 1-2=-1546/96, 2-3=-1351/94, 3-4=-1093/104, 4-5=-1024/117, 5-6=-964/173  
BOT CHORD 1-9=-185/1302, 7-9=-117/1024  
WEBS 2-9=-290/105, 3-9=0/447, 4-7=-555/187, 5-7=-144/1272

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 24-2-4 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=135.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K3	Roof Special	1	1	T22707813

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:SWPxpV2x?0AHY\_pSkPQEHezG\_Er-dwH?SvHq8Mpuh\_H\_h4QktmxzWhpNXSkOfvAfBzov66

0-5-8	3-10-4	10-3-8	11-0-0	17-7-0	24-2-0
0-5-8	3-4-12	6-5-4	0-8-8	6-7-0	6-7-0

Scale = 1:48.8

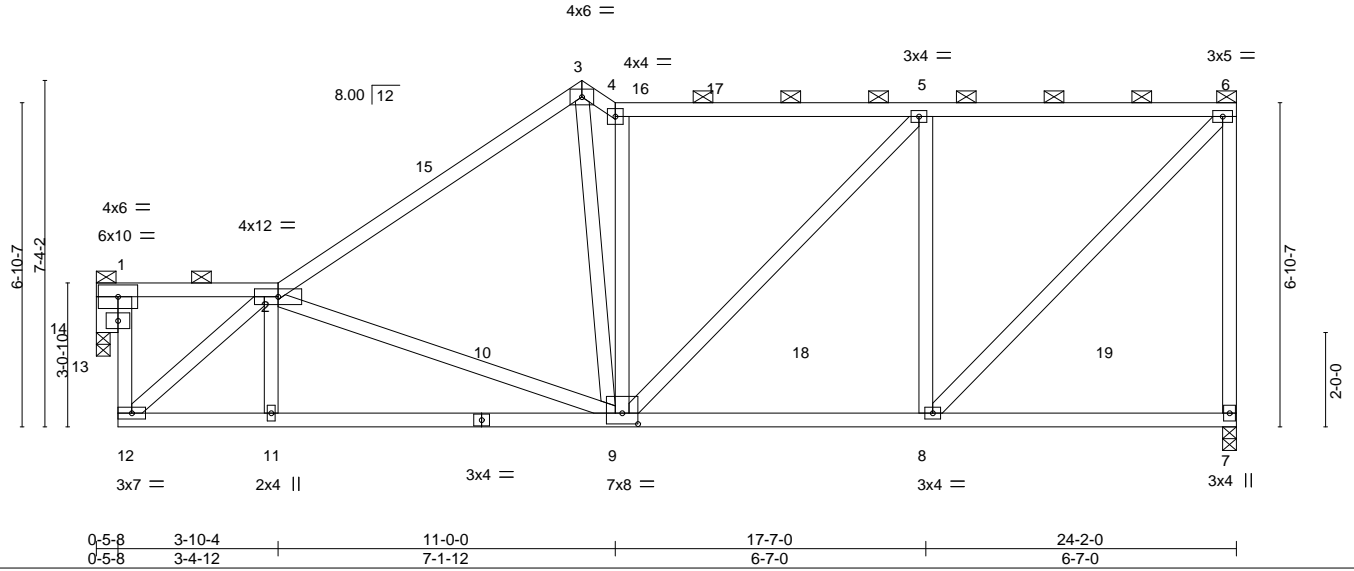


Plate Offsets (X,Y)-- [9:0-4-0,0-2-12]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.09	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.20	9-11	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.03	7	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.04	9-11	>999	Weight: 164 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2'-0-0 oc purlins (5-5-7 max.): 1-2, 4-6.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 7=0-3-8, 14=0-3-8  
Max Horz 14=110(LC 12)  
Max Uplift 7=125(LC 9), 14=43(LC 12)  
Max Grav 7=1102(LC 17), 14=1023(LC 17)

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

TOP CHORD 12-13=-53/997, 1-13=-53/997, 2-3=-1166/68, 3-4=-1097/90, 4-5=-1008/91, 5-6=-835/89, 6-7=-970/157  
BOT CHORD 11-12=-104/1298, 9-11=-108/1289, 8-9=-89/835  
WEBS 2-12=-1463/77, 2-9=-391/12, 4-9=-646/115, 5-8=-601/172, 6-8=-123/1163, 3-9=-40/900, 1-14=-1153/54

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 3-10-4, Interior(1) 3-10-4 to 10-3-8, Exterior(2E) 10-3-8 to 11-0-0, Interior(1) 11-0-0 to 24-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 7=125.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



6904 Parke East Blvd.  
Tampa, FL 36610



Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K4	Roof Special	1	1	T22707814

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHzG\_Er\_u5uVdLyzvRAoI9ymEfbRxUq6XO12nhTXxDxLOzov61

0-5-8	4-4-9	10-3-8	12-0-11	18-1-5	24-2-0
0-5-8	3-11-1	5-10-15	1-9-3	6-0-11	6-0-11

Scale = 1:48.8

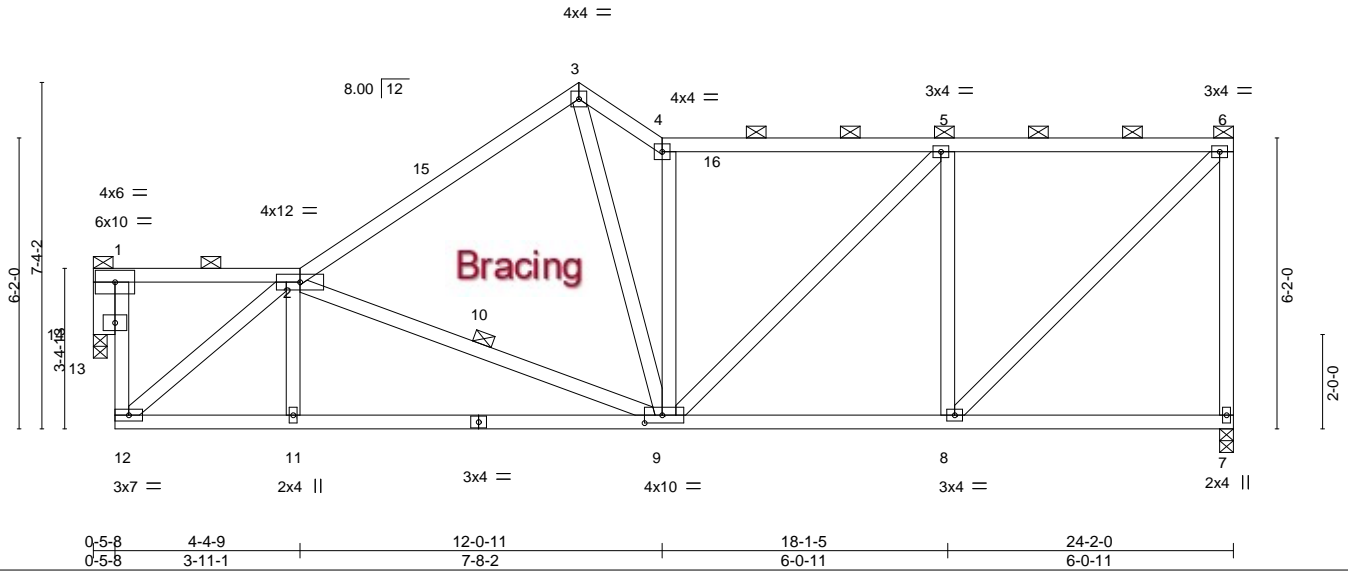


Plate Offsets (X,Y)--		[9:0-4-8,0-2-0]									
<b>LOADING</b> (psf)		<b>SPACING-</b>		<b>CSI.</b>		<b>DEFL.</b>		<b>PLATES</b>		<b>GRIP</b>	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.10 9-11 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.22 9-11 >999 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04 7 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS		Wind(LL)	0.04 9-11 >999 240				
								Weight: 162 lb		FT = 15%	

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-4-9 max.): 1-2, 4-6.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 2-9
OTHERS	2x6 SP No.2		

**REACTIONS.** (size) 7=0-3-8, 14=0-3-8  
Max Horz 14=80(LC 12)  
Max Uplift 7=113(LC 9), 14=47(LC 12)  
Max Grav 7=955(LC 1), 14=919(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 12-13=-44/838, 1-13=-44/838, 2-3=-1023/85, 3-4=-1191/115, 4-5=-996/87, 5-6=-771/84, 6-7=-897/143  
BOT CHORD 11-12=-100/1121, 9-11=-104/1116, 8-9=-84/771  
WEBS 2-12=-1255/71, 2-11=0/253, 2-9=-389/19, 3-9=-40/911, 4-9=-813/112, 5-9=-31/313, 5-8=-633/156, 6-8=-114/1061, 1-14=-990/60

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2E) 0-7-4 to 3-7-4, Interior(1) 3-7-4 to 10-3-8, Exterior(2E) 10-3-8 to 12-0-11, Interior(1) 12-0-11 to 24-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 7=113.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

February 3, 2021

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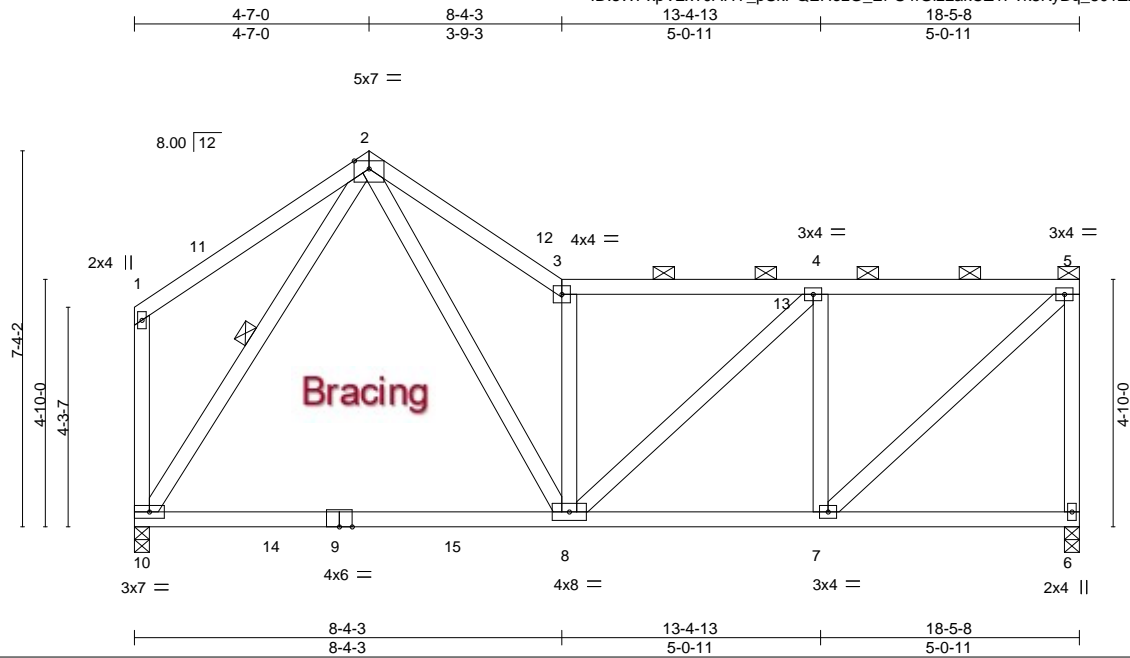
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K5	Roof Special	1	1	T220707815

SANTA FE TRUSS COMPANY INC,

BELL FL

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Scale = 1:45.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	Vert(LL)	-0.22	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.72	Vert(CT)	-0.35	8-10	>615		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS	Wind(LL)	0.02	8	>999		
							Weight: 124 lb	FT = 15%

**LUMBER-**

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

**REACTIONS.**

(size) 6=0-3-8, 10=0-3-8  
 Max Horz 10=-54(LC 10)  
 Max Uplift 6=-90(LC 9), 10=-41(LC 12)  
 Max Grav 6=796(LC 17), 10=818(LC 19)

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

TOP CHORD 2-3=-1101/120, 3-4=-865/54, 4-5=-670/72, 5-6=-708/117  
 BOT CHORD 8-10=-42/397, 7-8=-72/670  
 WEBS 2-8=-45/1061, 3-8=-793/131, 4-8=-4/266, 4-7=-469/117, 5-7=-95/884, 2-10=-631/56

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-7-0, Exterior(2R) 4-7-0 to 7-7-0, Interior(1) 7-7-0 to 18-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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



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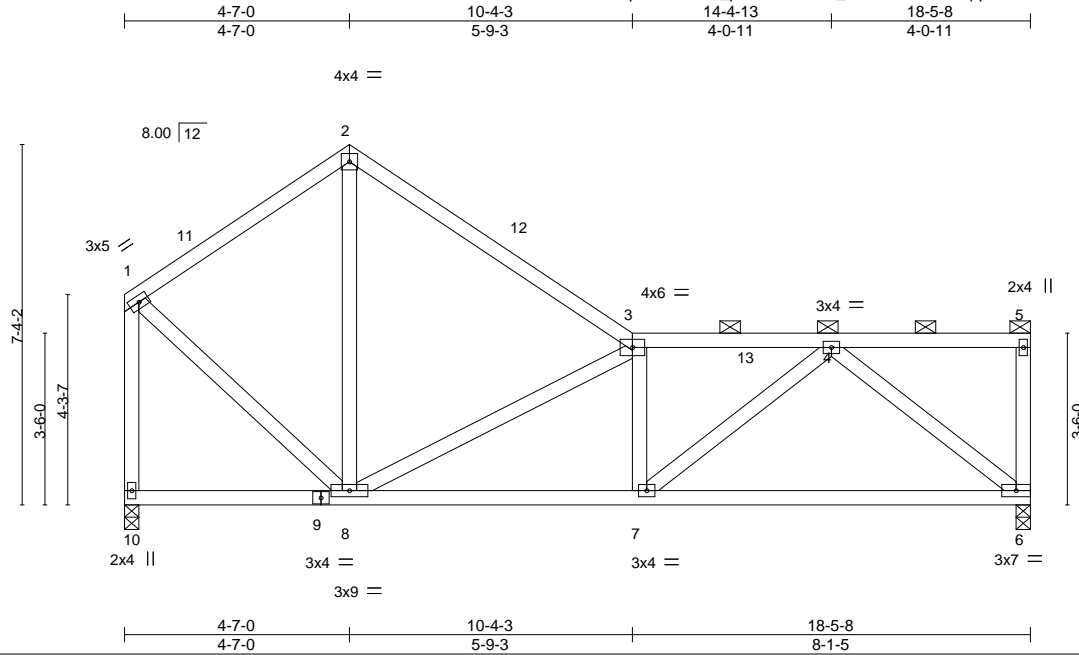
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K6	Roof Special	1	1	T22707816

SANTA FE TRUSS COMPANY INC,

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8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:31 2021 Page 1

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Scale = 1:46.9

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	-0.10	6-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.53	Vert(CT)	-0.20	6-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.61	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.02	7	>999	240		
	Code FBC2020/TPI2014							Weight: 115 lb	FT = 15%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 3-5.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

(size) 6=0-3-8, 10=0-3-8  
 Max Horz 10=68(LC 11)  
 Max Uplift 6=-59(LC 9), 10=-49(LC 12)  
 Max Grav 6=727(LC 1), 10=727(LC 1)

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

TOP CHORD 1-2=-508/86, 2-3=-536/83, 3-4=-1059/57, 1-10=-686/86  
 BOT CHORD 7-8=-61/1066, 6-7=-68/695  
 WEBS 2-8=0/258, 3-8=-797/75, 4-7=0/471, 4-6=-855/98, 1-8=-26/481

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-7-0, Exterior(2R) 4-7-0 to 7-7-0, Interior(1) 7-7-0 to 18-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

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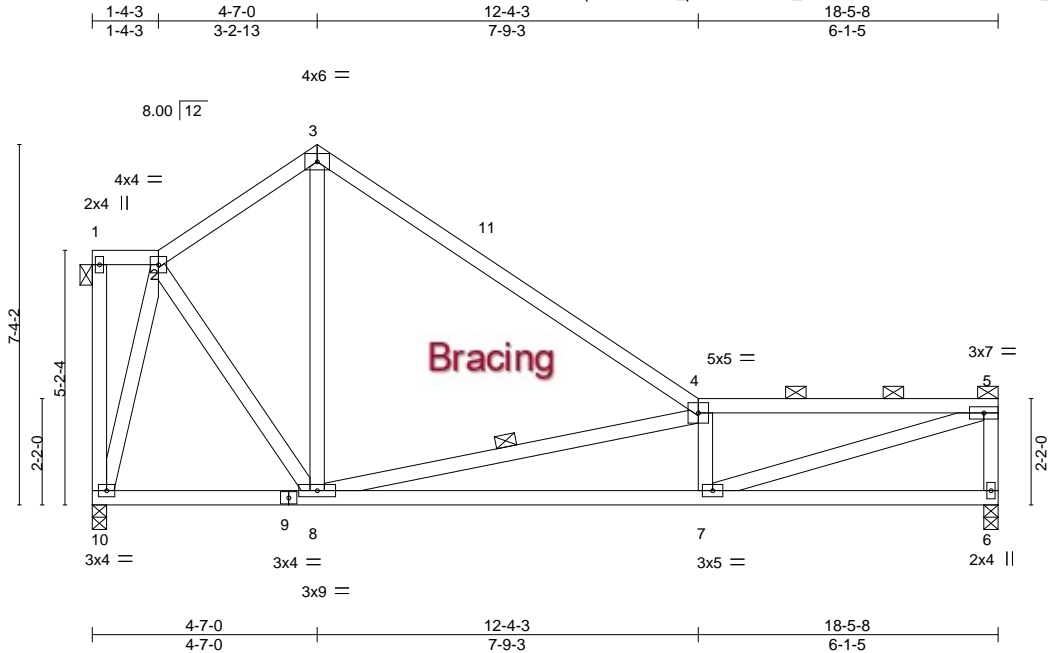
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K7	Roof Special	1	1	T22707817

SANTA FE TRUSS COMPANY INC,

BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:33 2021 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	Vert(LL)	-0.11	7-8	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.64	Vert(CT)	-0.25	7-8	>881	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.41	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.06	7-8	>999	240		
	Code FBC2020/TPI2014							Weight: 116 lb	FT = 15%

<b>LUMBER-</b>		<b>BRACING-</b>	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-6 max.): 1-2, 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 4-8

**REACTIONS.** (size) 10=0-3-8, 6=0-3-8  
 Max Horz 10=-87(LC 12)  
 Max Uplift 10=-60(LC 12), 6=-28(LC 12)  
 Max Grav 10=727(LC 1), 6=727(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-472/75, 3-4=-593/60, 4-5=-1639/72, 5-6=-667/60  
 BOT CHORD 7-8=-81/1668  
 WEBS 2-10=-665/80, 2-8=-37/410, 3-8=0/253, 4-8=-1317/131, 4-7=-370/115, 5-7=-71/1624

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 1-4-3, Interior(1) 1-4-3 to 4-7-0, Exterior(2R) 4-7-0 to 7-7-0, Interior(1) 7-7-0 to 18-3-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 6.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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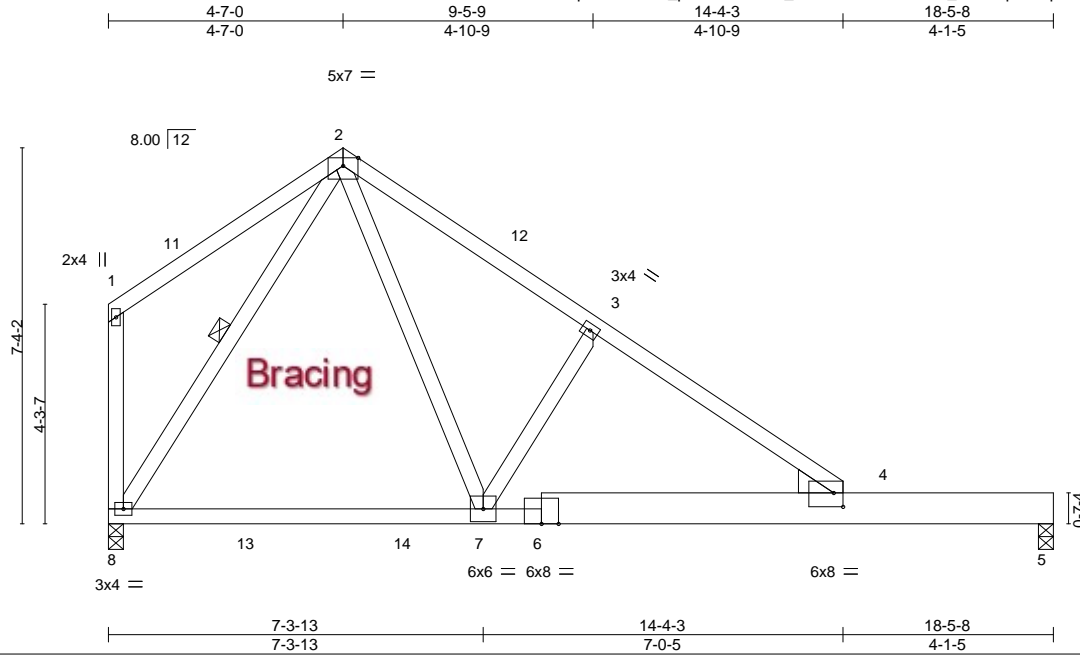
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K8	Roof Special	1	1	T22707818

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BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:36 2021 Page 1

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Scale = 1:45.0

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	-0.27	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.51				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.01				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.14				
								Weight: 105 lb		FT = 15%	

**LUMBER-**

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 5-6: 2x8 SP 2400F 2.0E  
 WEBS 2x4 SP No.2  
 WEDGE  
 Right: 2x6 SP No.2

**BRACING-**

TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.  
 WEBS 1 Row at midpt 2-8

**REACTIONS.**

(size) 8=0-3-8, 5=0-3-8  
 Max Horz 8=-113(LC 12)  
 Max Uplift 8=-49(LC 12)  
 Max Grav 8=835(LC 18), 5=815(LC 18)

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

TOP CHORD 2-3=-978/105, 3-4=-1077/66  
 BOT CHORD 7-8=0/430, 4-7=0/876  
 WEBS 2-7=-16/993, 3-7=-336/132, 2-8=-781/53

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-7-0, Exterior(2R) 4-7-0 to 7-7-0, Interior(1) 7-7-0 to 14-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

February 3, 2021

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

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

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



6904 Parke East Blvd.  
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K9	Roof Special	1	1	T22707819

SANTA FE TRUSS COMPANY INC,

BELL FL

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ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-IQawBMRz4MS2l\_mUEwpUmcgP?m5dwOfeNA9Mczov5v

Job Reference (optional)

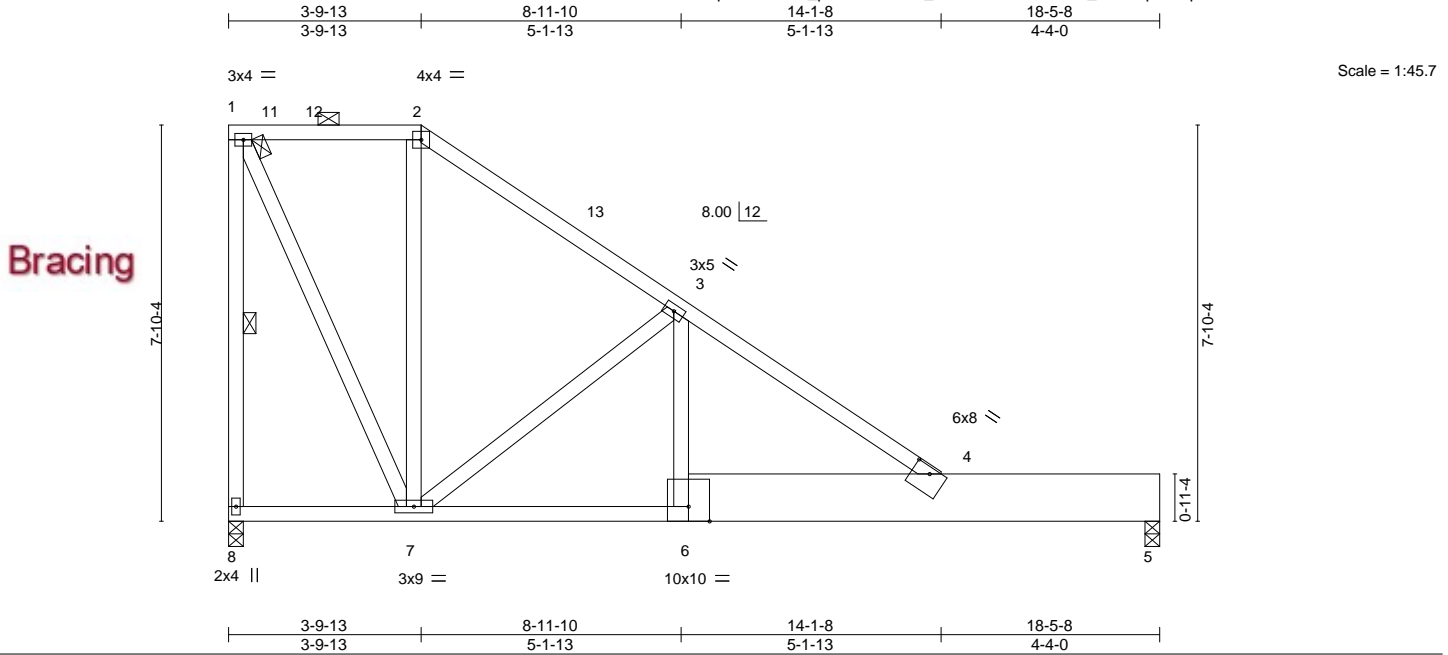


Plate Offsets (X,Y)-- [4:0-4-0,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.26	Vert(LL)	-0.10	6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.70	Vert(CT)	-0.19	6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS	Wind(LL)	0.04	6-9	>999	240	Weight: 131 lb	FT = 15%

#### LUMBER-

TOP CHORD 2x4 SP No.2  
 BOT CHORD 2x4 SP No.2 \*Except\*  
 5-6: 2x12 SP No.2  
 WEBS 2x4 SP No.2

#### BRACING-

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

#### REACTIONS.

(size) 8=0-3-8, 5=0-3-8  
 Max Horz 8=-209(LC 12)  
 Max Uplift 8=-78(LC 12)  
 Max Grav 8=727(LC 1), 5=727(LC 1)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-8=-695/108, 1-2=-285/41, 2-3=-439/0, 3-4=-1115/0  
 BOT CHORD 6-7=0/857, 4-6=0/848  
 WEBS 1-7=-97/662, 3-7=-722/79, 3-6=0/497

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-9-13, Exterior(2R) 3-9-13 to 6-9-13, Interior(1) 6-9-13 to 14-2-5 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
 MiTek USA, Inc. FL Cert 6634  
 6904 Parke East Blvd. Tampa FL 33610  
 Date:

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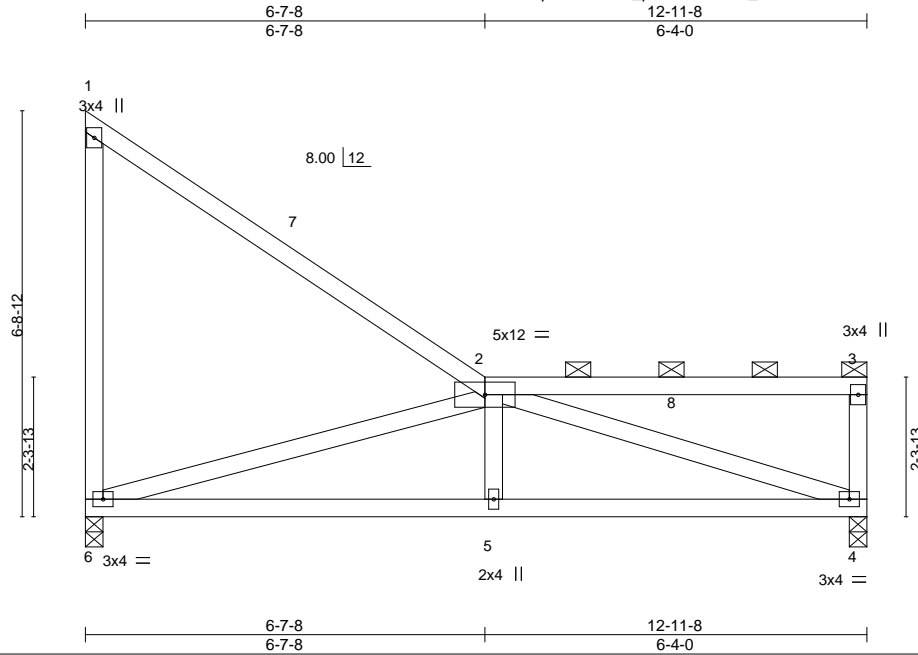
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K10	Roof Special	1	1	T22707820

SANTA FE TRUSS COMPANY INC,

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8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:19 2021 Page 1

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Scale = 1:38.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	-0.05	5-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.45	Vert(CT)	-0.12	5-6	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.75	Horz(CT)	0.02	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.02	5	>999	240		
	Code FBC2020/TPI2014							Weight: 74 lb	FT = 15%

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

(size) 6=0-3-8, 4=0-3-8  
 Max Horz 6=-124(LC 12)  
 Max Uplift 6=-71(LC 12), 4=-29(LC 8)  
 Max Grav 6=507(LC 1), 4=507(LC 1)

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

BOT CHORD 5-6=0/895, 4-5=0/904  
 WEBS 2-6=-915/86, 2-5=0/281, 2-4=-857/0

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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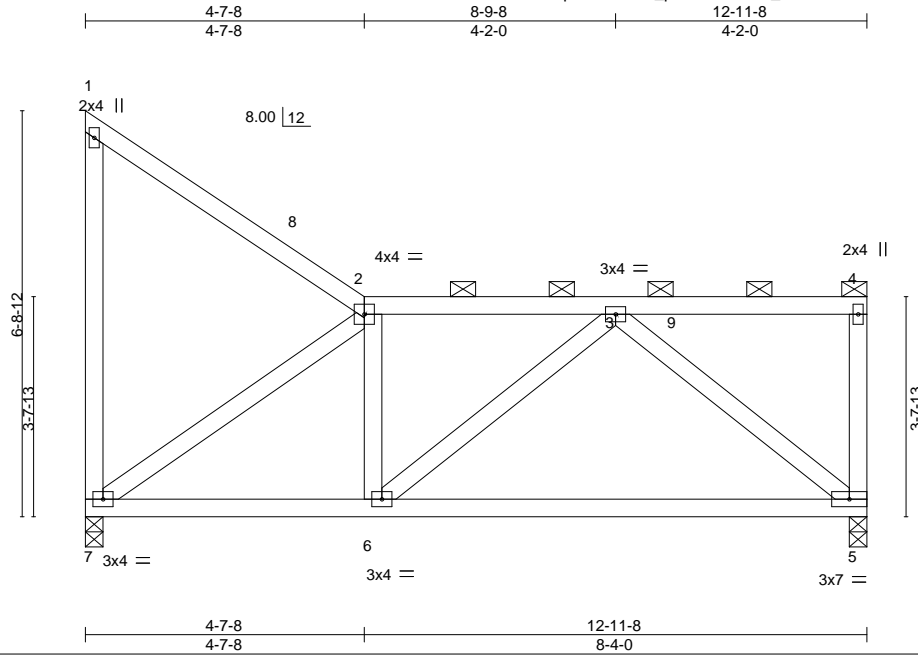
Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	K11	Roof Special	1	1	T22707821

SANTA FE TRUSS COMPANY INC,

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8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:21 2021 Page 1

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Scale = 1:38.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	-0.10	5-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.50	Vert(CT)	-0.21	5-6	>728		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.32	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.01	6	>999	Weight: 81 lb	FT = 15%
	Code FBC2020/TPI2014							

**LUMBER-**

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

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-4.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.**

(size) 7=0-3-8, 5=0-3-8  
 Max Horz 7=-85(LC 12)  
 Max Uplift 7=-63(LC 12), 5=-53(LC 9)  
 Max Grav 7=507(LC 1), 5=507(LC 1)

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

TOP CHORD 2-3=-488/0  
 BOT CHORD 6-7=0/484, 5-6=-59/417  
 WEBS 2-7=-596/46, 3-5=-500/88

**NOTES-**

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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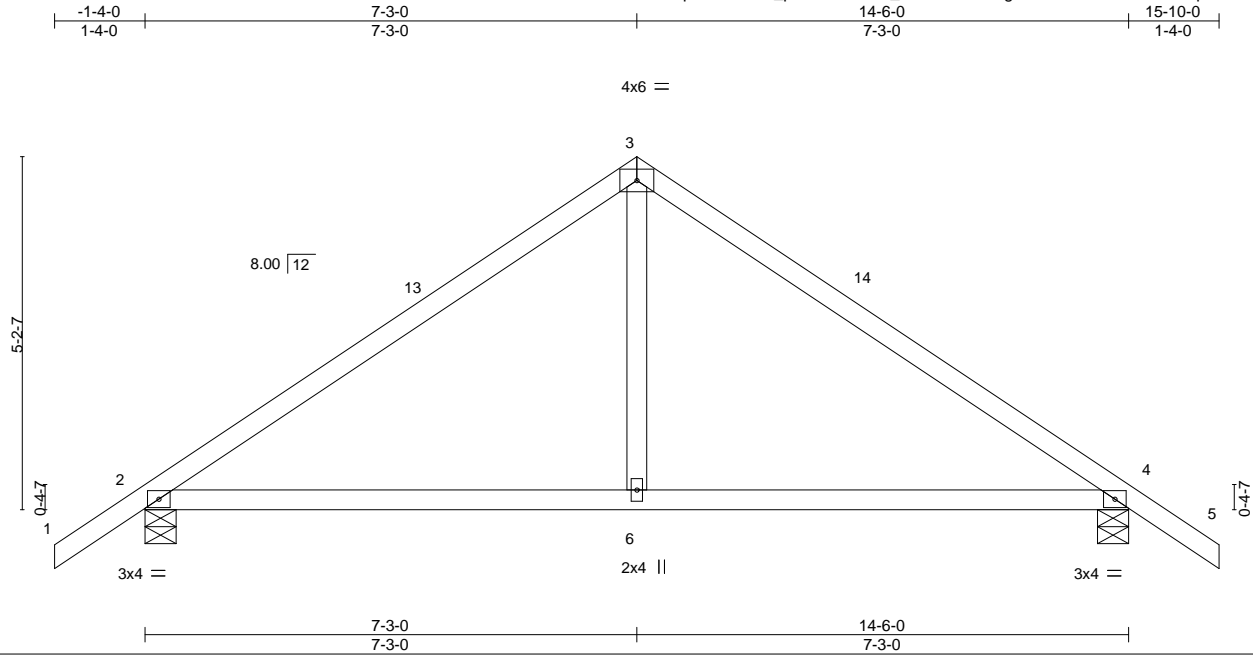


Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	M	Common	1	1	T22707823

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:42 2021 Page 1

ID:SWPxpV2x70AHY\_pSkPQEHzG\_Er-ZaxBRPVkgCCBTvEebBwu0t3FYAApKCeXl6cgpazov5p



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	Vert(LL)	-0.07	6-9	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.52	Vert(CT)	-0.14	6-9	>999		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.08	Horz(CT)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.05	6-9	>999		
	Code FBC2020/TPI2014						Weight: 60 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 2=0-5-8, 4=0-5-8  
Max Horz 2=-114(LC 10)  
Max Uplift 2=-77(LC 12), 4=-77(LC 12)  
Max Grav 2=660(LC 1), 4=660(LC 1)

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

TOP CHORD 2-3=-702/117, 3-4=-702/117  
BOT CHORD 2-6=0/499, 4-6=0/499  
WEBS 3-6=0/334

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-3-0, Exterior(2R) 7-3-0 to 10-3-0, Interior(1) 10-3-0 to 15-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

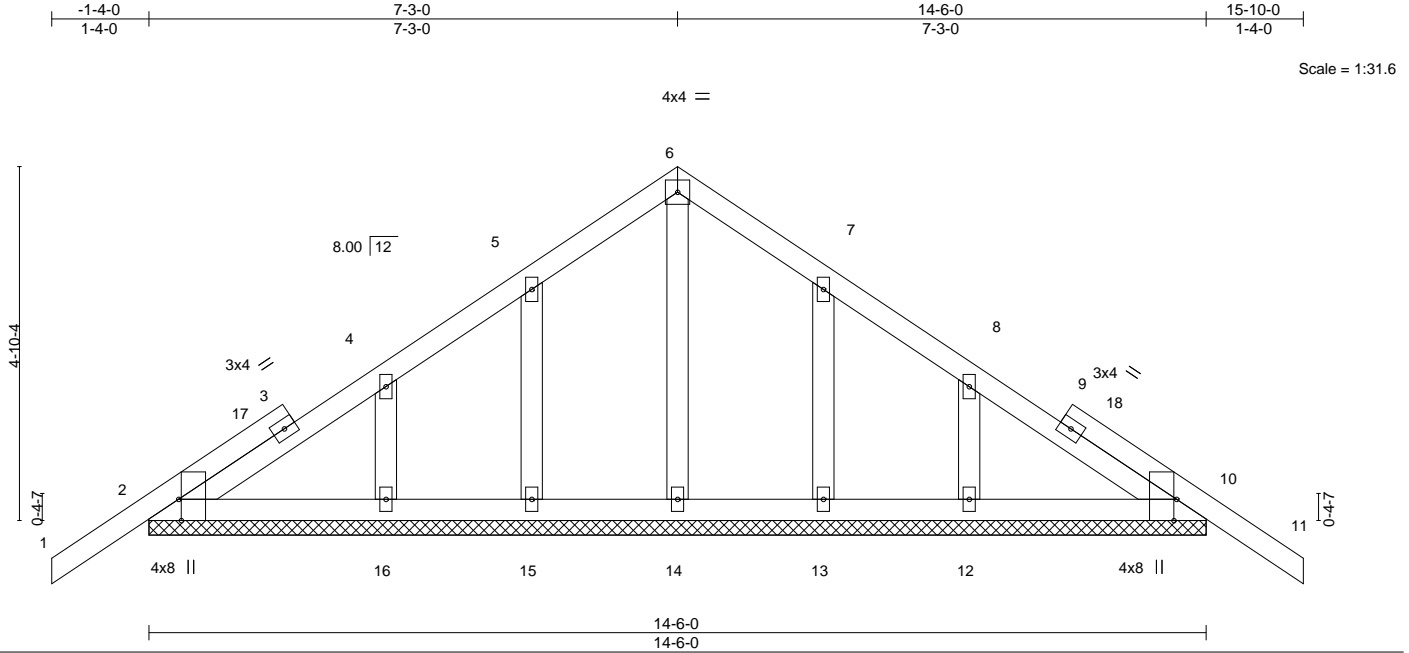


6904 Parke East Blvd.  
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	MET	Common Supported Gable	1	1	T22707824

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:44 2021 Page 1  
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	-0.00 11	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.00 11				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00 10				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 78 lb		FT = 15%	

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

- All bearings 14'-6".  
(lb) - Max Horz 2=107(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12  
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1'-4" to 1'-8", Exterior(2N) 1'-8" to 7'-3", Corner(3R) 7'-3" to 10'-3", Exterior(2N) 10'-3" to 15'-10" zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13, 12.

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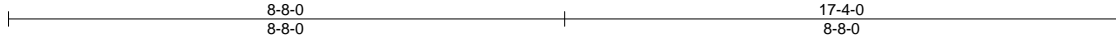
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	T22707825
ZEDICKS	PB1	GABLE	1	1	

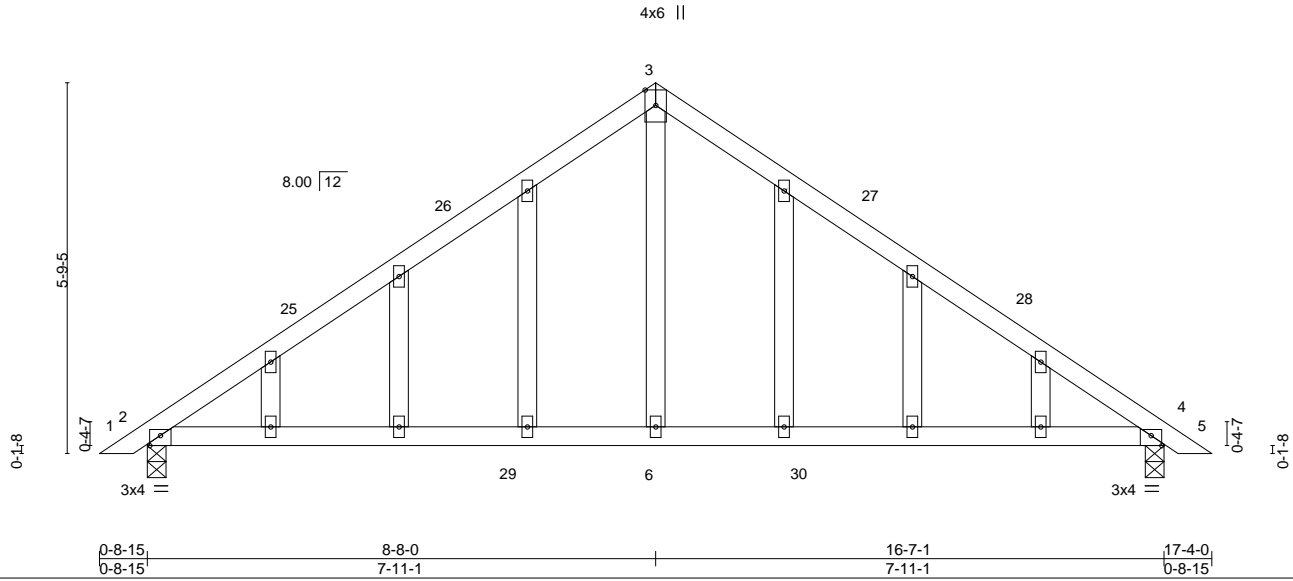
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Scale = 1:35.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.14 6-24 >999 360	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.24 6-24 >784 240				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.01 4 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-AS		Wind(LL)	0.07 6-21 >999 240				
								Weight: 84 lb		FT = 15%	

#### LUMBER-

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

#### BRACING-

TOP CHORD Structural wood sheathing directly applied.  
BOT CHORD Rigid ceiling directly applied.

#### REACTIONS.

(size) 2=0-3-8, 4=0-3-8  
Max Horz 2=112(LC 11)  
Max Uplift 2=-54(LC 12), 4=-54(LC 12)  
Max Grav 2=751(LC 17), 4=751(LC 18)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-867/119, 3-4=-867/119  
BOT CHORD 2-6=0/692, 4-6=0/692  
WEBS 3-6=0/452

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 8-8-0, Exterior(2R) 8-8-0 to 11-8-0, Interior(1) 11-8-0 to 17-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

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



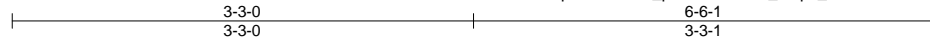
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Tampa, FL 33610



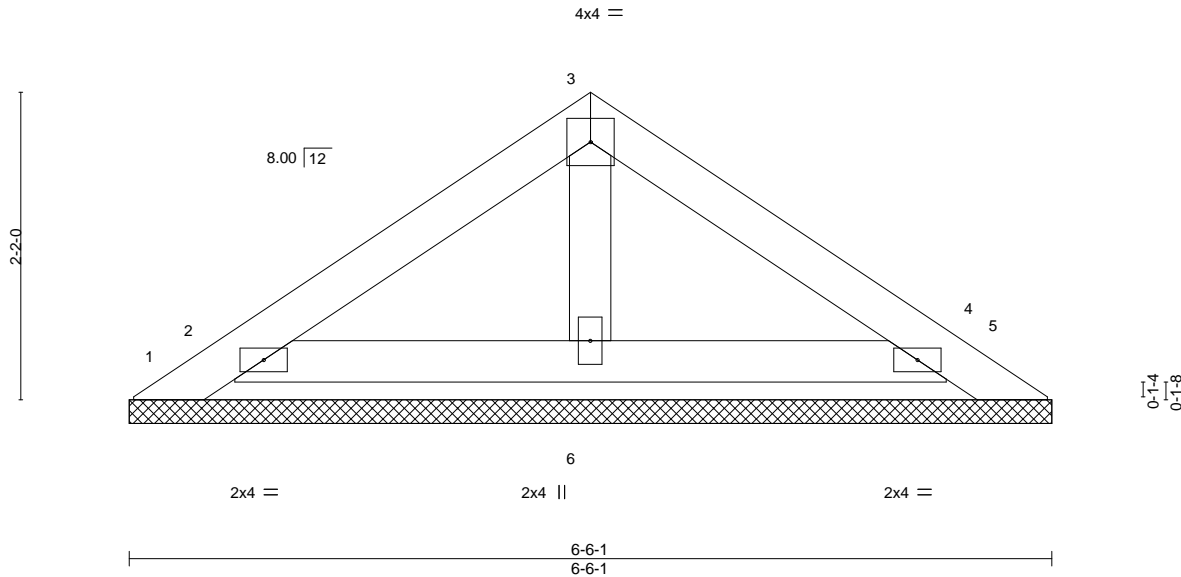
Job	Truss	Truss Type	Qty	Ply	T22707826
ZEDICKS	PB1ET	PIGGYBACK	1	1	

SANTA FE TRUSS COMPANY INC,

BELL FL

 8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:51 2021 Page 1  
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Scale = 1:16.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.01	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 21 lb	FT = 15%

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

All bearings 6-6-1.  
 (lb) - Max Horz 1=-40(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 2, 4  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 2, 4, 6

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) 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
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

This item has been electronically signed and sealed by Lee, Julius, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Julius Lee PE No. 34869  
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 6904 Parke East Blvd. Tampa FL 33610  
 Date:

February 3, 2021

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

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



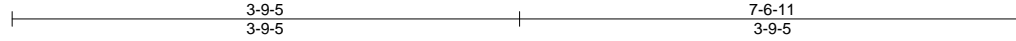
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 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	PB2	Piggyback	6	1	T22707827

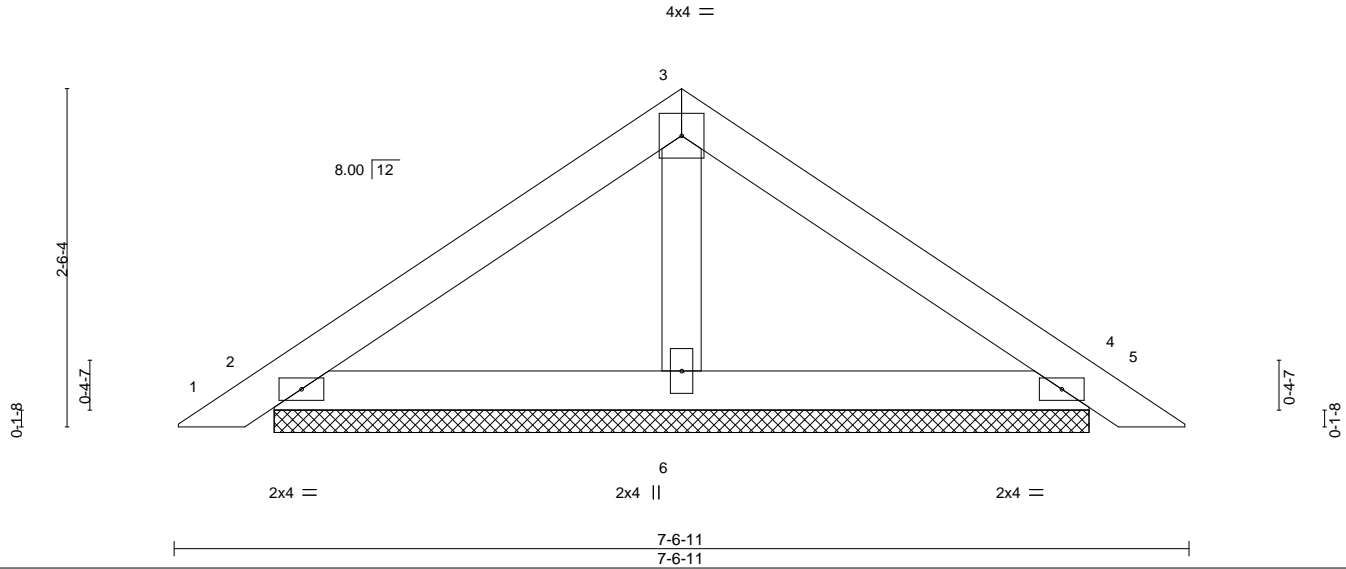
SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:32:52 2021 Page 1

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Scale = 1:17.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	0.00	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.09	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.02	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code FBC2020/TPI2014						Weight: 25 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

(size) 2=6-0-13, 4=6-0-13, 6=6-0-13  
Max Horz 2=-47(LC 10)  
Max Uplift 2=-41(LC 12), 4=-41(LC 12)  
Max Grav 2=160(LC 1), 4=160(LC 1), 6=221(LC 1)

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

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 3-9-5, Exterior(2R) 3-9-5 to 6-9-12, Interior(1) 6-9-12 to 7-3-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Julius Lee PE No. 34869  
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Date:

February 3, 2021

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



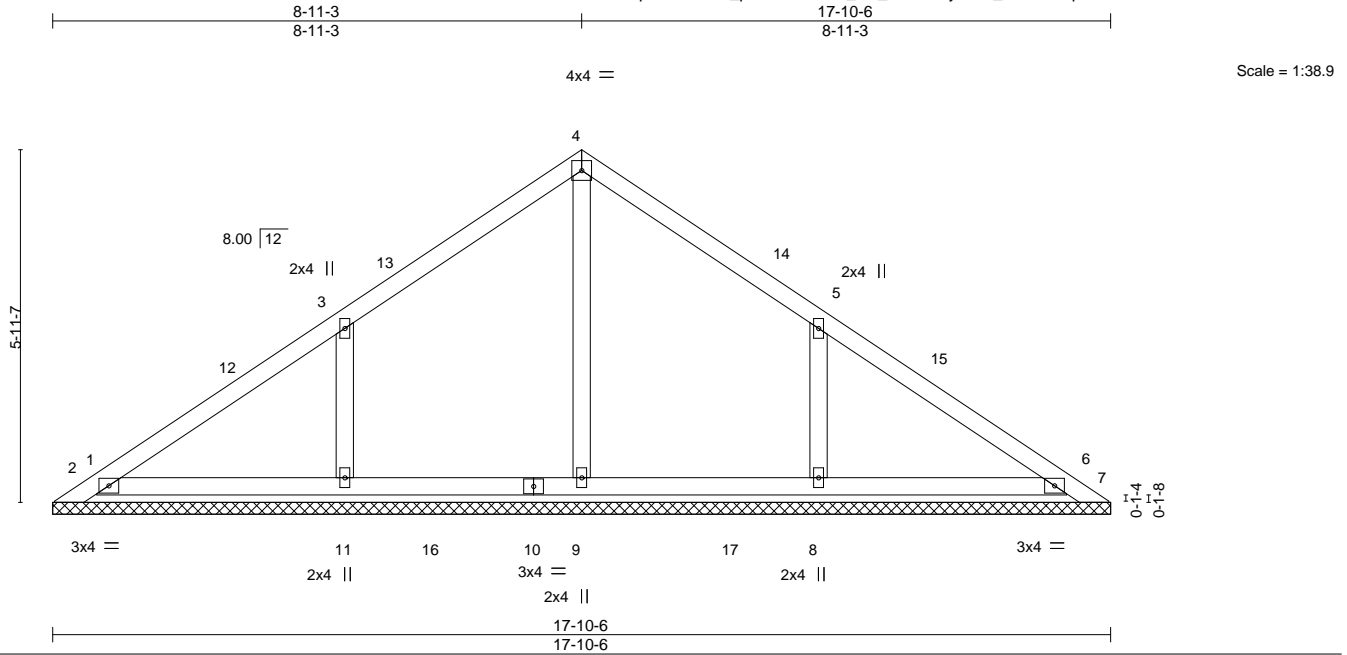
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	PB3	GABLE	17	1	T22707828

SANTA FE TRUSS COMPANY INC, BELL FL

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ID:SWPxPv2x70AHY\_pSkPQEHzG\_Er-\_Q8leFIHyLkMt\_UmNHaq5ukJESH0FKTMDSkXQzov5V



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 72 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 17-10-6.

(lb) - Max Horz 1=115(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 8, 6 except 1=230(LC 17), 7=182(LC 18)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=431(LC 17), 9=354(LC 17), 11=440(LC 17), 8=439(LC 18), 6=401(LC 18)

#### FORCES.

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

WEBS 3-11=273/150, 5-8=273/150

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 8-11-3, Exterior(2R) 8-11-3 to 11-11-3, Interior(1) 11-11-3 to 17-7-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 8, 6 except (jt=lb) 1=230, 7=182.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Julius Lee PE No. 34869  
MiTek USA, Inc. FL Cert 6634  
6904 Parke East Blvd. Tampa FL 33610  
Date:

February 3, 2021

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

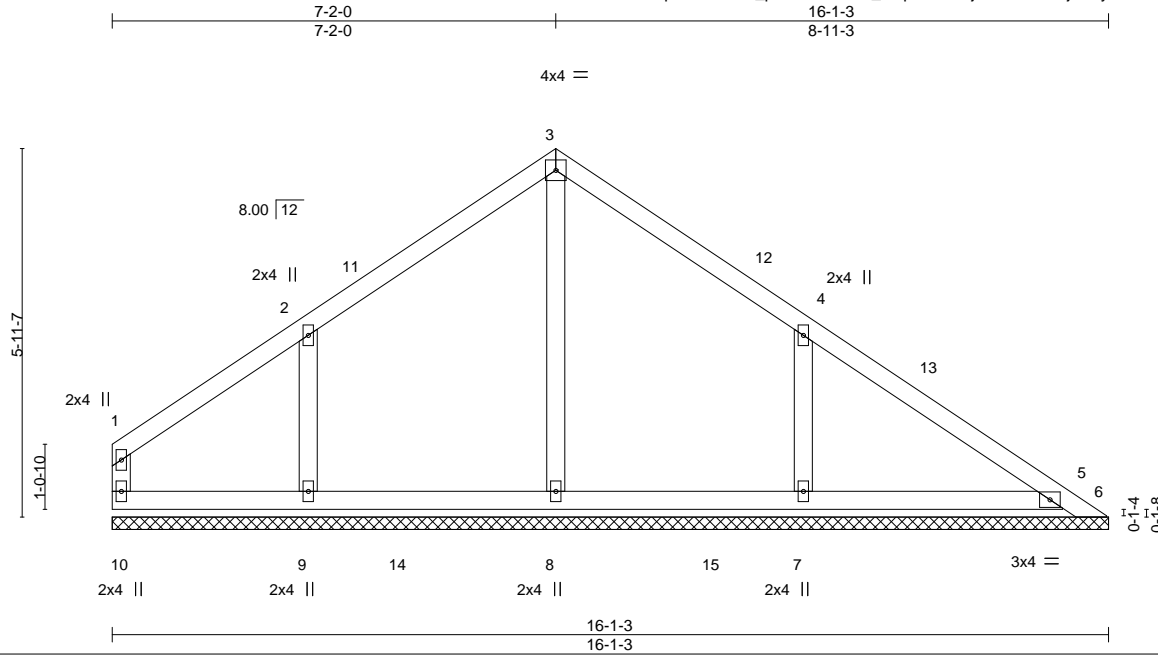


6904 Parke East Blvd.  
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
ZEDICKS	PB4	GABLE	2	1	T22707829

SANTA FE TRUSS COMPANY INC, BELL FL

8.430 s Nov 30 2020 MiTek Industries, Inc. Wed Feb 3 08:33:25 2021 Page 1  
ID:sWPxpV2x?0AHY\_pSkPQEHezG\_Er-ps1RT61jYPd57W0vcjBzFyLFWWxXvfzselXSrbzov58



Scale = 1:37.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.16	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S					Weight: 68 lb	FT = 15%

#### LUMBER-

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

#### BRACING-

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

#### REACTIONS.

All bearings 16-1-3.  
(lb) - Max Horz 10=105(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 9, 7 except 6=183(LC 18)  
Max Grav All reactions 250 lb or less at joint(s) 10, 6 except 5=380(LC 18), 8=373(LC 18), 9=401(LC 17), 7=437(LC 18)

#### FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-9=254/150, 4-7=273/158

#### NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-2-0, Interior(1) 3-2-0 to 7-2-0, Exterior(2R) 7-2-0 to 10-2-0, Interior(1) 10-2-0 to 15-9-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 5, 9, 7 except (jt=lb) 6=183.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

February 3, 2021

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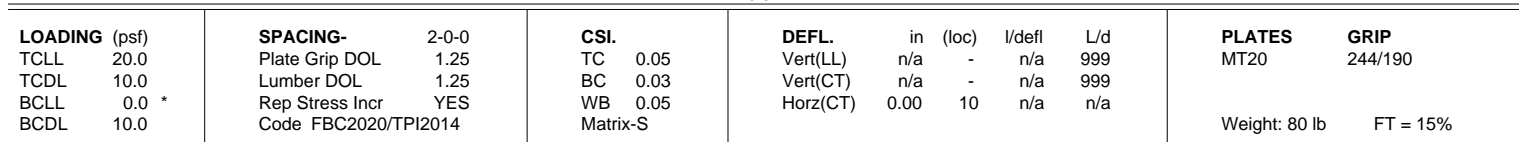
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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Tampa, FL 36610

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6-10-14 15-6-14  
6-10-14 8-8-0



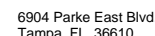
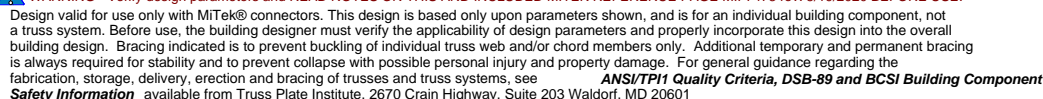
**REACTIONS.** All bearings 15-6-14.  
(lb) - Max Horz 18=101(LC 11)  
Max Uplift All uplift 100 lb or less at joint(s) 18, 10, 15, 16, 17, 13, 12, 11  
Max Grav All reactions 250 lb or less at joint(s) 18, 10, 9, 14, 15, 16, 17, 13, 12, 11

**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=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 2-10-14, Interior(1) 2-10-14 to 6-10-14, Exterior(2R) 6-10-14 to 9-10-14, Interior(1) 9-10-14 to 15-3-9 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) 18, 10, 15, 16, 17, 13, 12, 11.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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6904 Parke East Blvd. Tampa FL 33610  
Date:

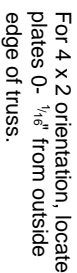
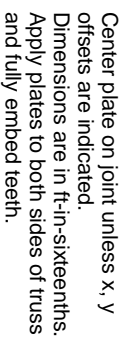
February 3, 2021





## General Safety Notes

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



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

**4 X 4**

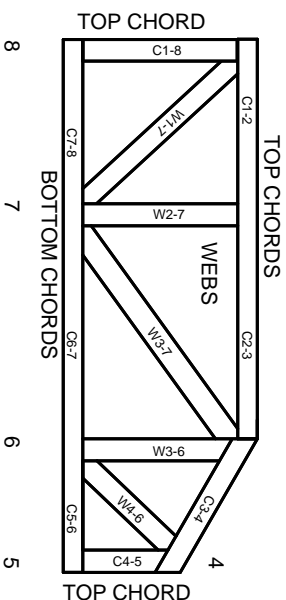
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

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

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

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



### ICC-ES Reports:

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

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

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

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

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