



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

44529

RE: B220030 -

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: YASMANIS REYES Project Name: NA Model: NA
Lot/Block: NA Subdivision: NA
Address: COLUMBIA, NA
City: LAKE CITY State: FL

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

Name: License #:
Address: State:
City:

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

Design Code: FBC2020/TPI2014
Wind Code: ASCE 7-16
Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.5
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 17 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T27193382	A	3/22/22
2	T27193383	A1	3/22/22
3	T27193384	A2	3/22/22
4	T27193385	A3	3/22/22
5	T27193386	A4	3/22/22
6	T27193387	A5	3/22/22
7	T27193388	AG	3/22/22
8	T27193389	B	3/22/22
9	T27193390	B1	3/22/22
10	T27193391	CG	3/22/22
11	T27193392	CGE	3/22/22
12	T27193393	CJ1	3/22/22
13	T27193394	CJ3	3/22/22
14	T27193395	CJ5	3/22/22
15	T27193396	CJ7	3/22/22
16	T27193397	CJ71	3/22/22
17	T27193398	CJ72	3/22/22



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

Truss Design Engineer's Name: Velez, Joaquin

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

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



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

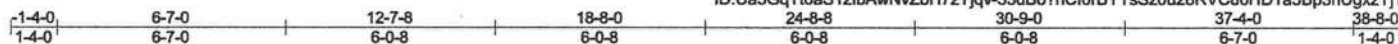
March 22, 2022

Job B220030	Truss A	Truss Type Common	Qty 13	Ply 1	Job Reference (optional) T27193382
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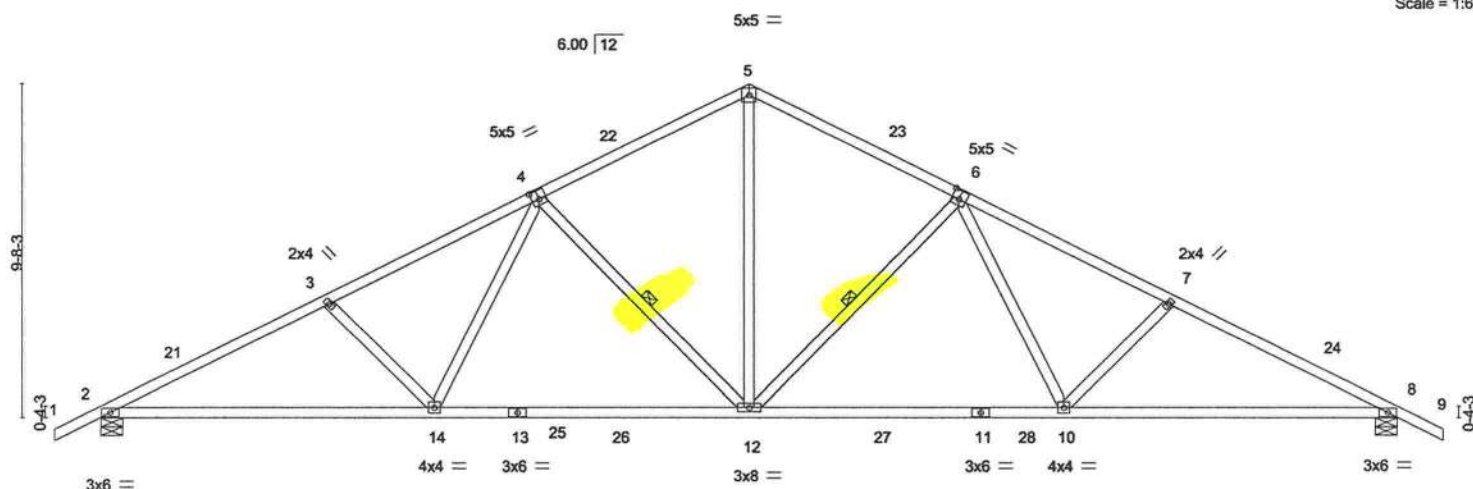
American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:51:57 2022 Page 1

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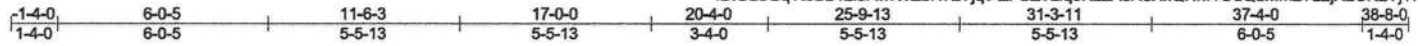


Job	Truss	Truss Type	Qty	Ply	
B220030	A1	Hip	2	1	T27193383

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:51:58 2022 Page 1

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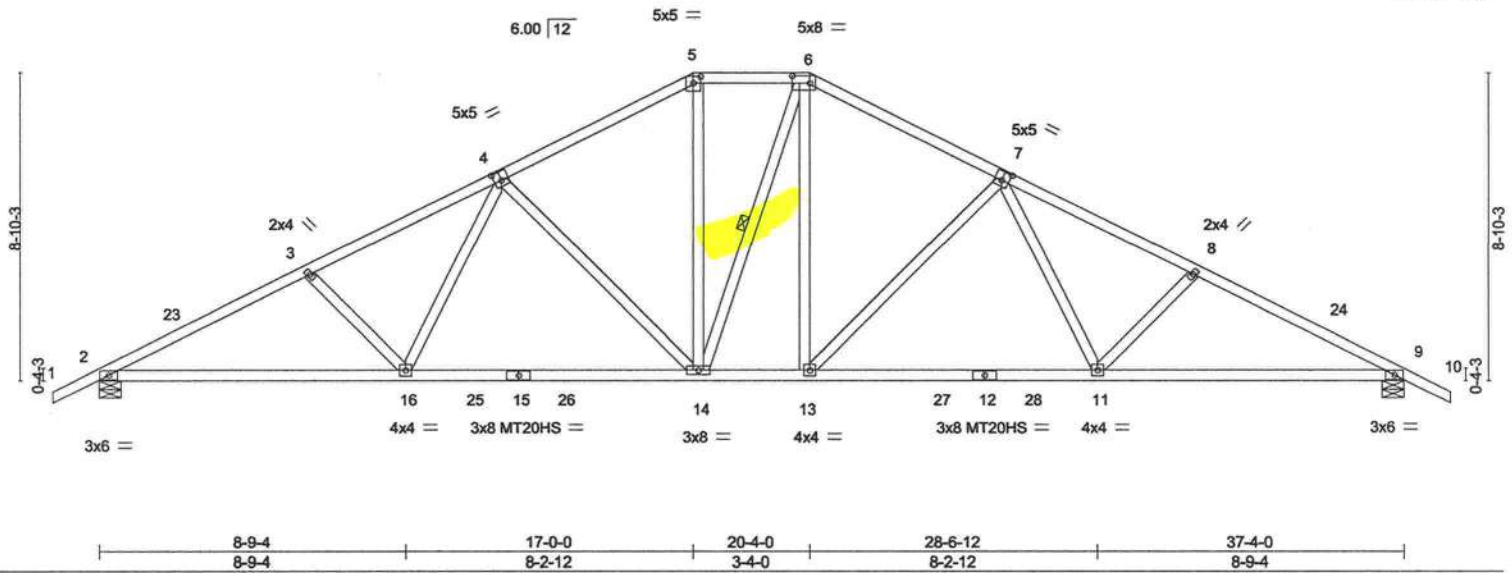


Plate Offsets (X,Y) [4:0-2-8,0-3-0], [5:0-2-8,0-2-4], [6:0-6-0,0-2-8], [7:0-2-8,0-3-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	Vert(LL)	-0.25 11-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.68	Vert(CT)	-0.41 11-13	>999	240	MT20HS	187/143
BCLL 0.0 *	Lumber DOL 1.25	WB 0.75	Horz(CT)	0.12 9	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.14 13	>999	240		
	Code FBC2020/TPI2014						Weight: 212 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-4 oc bracing.
WEBS 1 Row at midpt 6-14

REACTIONS.

(size) 2=0-7-8, 9=0-7-8
Max Horz 2=245(LC 11)
Max Uplift 2=451(LC 12), 9=451(LC 12)
Max Grav 2=1656(LC 17), 9=1656(LC 18)

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

TOP CHORD 2-3=2970/839, 3-4=2760/812, 4-5=1947/689, 5-6=1690/666, 6-7=1946/689,
7-8=2761/812, 8-9=2970/839
BOT CHORD 2-16=630/2792, 14-16=464/2296, 13-14=273/1743, 11-13=484/2132, 9-11=650/2608
WEBS 3-16=347/196, 4-16=77/609, 4-14=744/304, 5-14=175/651, 6-13=170/695,
7-13=747/305, 7-11=77/611, 8-11=347/196

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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-4-13, Interior(1) 2-4-13 to 17-0-0, Exterior(2E) 17-0-0 to 20-4-0, Exterior(2R) 20-4-0 to 25-10-10, Interior(1) 25-10-10 to 38-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=451, 9=451.



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

March 22,2022

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 ANSITPP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



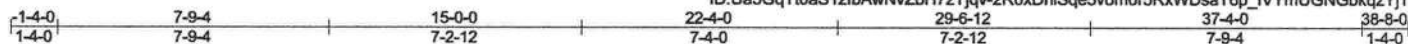
6904 Parke East Blvd.
Tampa, FL 36610

Job B220030	Truss A2	Truss Type Hip	Qty 2	Ply 1	Job Reference (optional) T27193384
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:51:59 2022 Page 1

ID:Ua5GqTt0aS1zlbAwNvZbH7zYjqv-2R0x0DhiSqe5vom0r5RxWDsaT6p_IVYmUGNGbkqzYJTE



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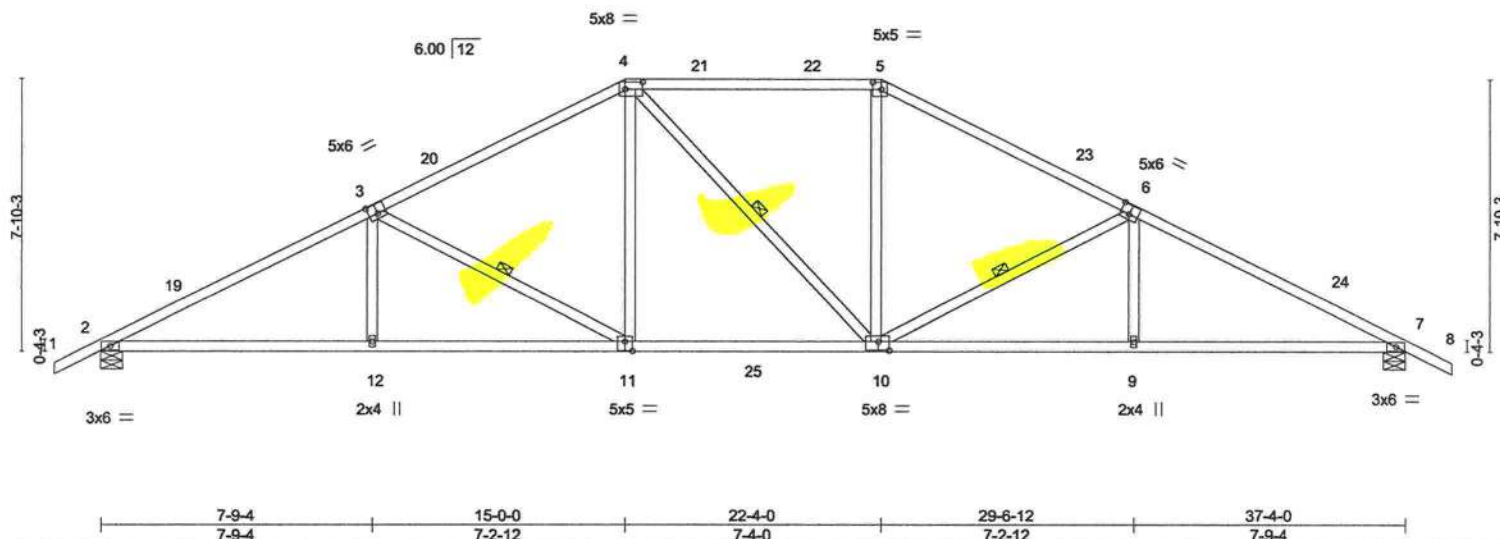


Plate Offsets (X,Y)=[3:0-3-0,0-3-4], [4:0-6-0,0-2-8], [5:0-3-0,0-2-8], [6:0-3-0,0-3-4], [10:0-3-12,0-3-0], [11:0-2-8,0-3-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.71	Vert(LL)	-0.21 10-11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.64	Vert(CT)	-0.35 10-11	>999	240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.23	Horz(CT)	0.12 7	n/a	n/a		
BCDL 7.0	Rep Stress Incr YES	Matrix-MS	Wind(LL)	0.14 10-11	>999	240		
	Code FBC2020/TPI2014						Weight: 192 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

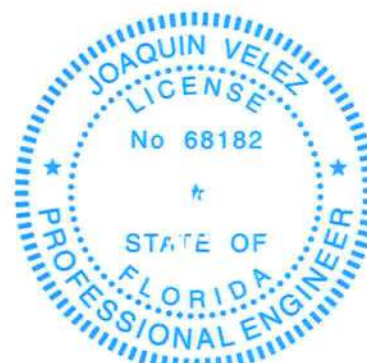
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-9-6 oc bracing.
WEBS 1 Row at midpt 3-11, 4-10, 6-10

REACTIONS. (size) 2=0-7-8, 7=0-7-8
Max Horz 2=219(LC 11)
Max Uplift 2=451(LC 12), 7=451(LC 12)
Max Grav 2=1650(LC 17), 7=1645(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2918/838, 3-4=2176/722, 4-5=1869/708, 5-6=2157/720, 6-7=2908/838
BOT CHORD 2-12=610/2692, 11-12=611/2687, 10-11=341/1967, 9-10=632/2514, 7-9=631/2519
WEBS 3-12=0/271, 3-11=823/315, 4-11=90/647, 5-10=90/594, 6-10=829/315, 6-9=0/272

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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-4-13, Interior(1) 2-4-13 to 15-0-0, Exterior(2R) 15-0-0 to 20-3-6, Interior(1) 20-3-6 to 22-4-0, Exterior(2R) 22-4-0 to 27-7-6, Interior(1) 27-7-6 to 38-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=451, 7=451.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

March 22,2022

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6904 Parke East Blvd.
Tampa, FL 33610

Job B220030	Truss A3	Truss Type Hip	Qty 2	Ply 1	T27193385
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:00 2022 Page 1

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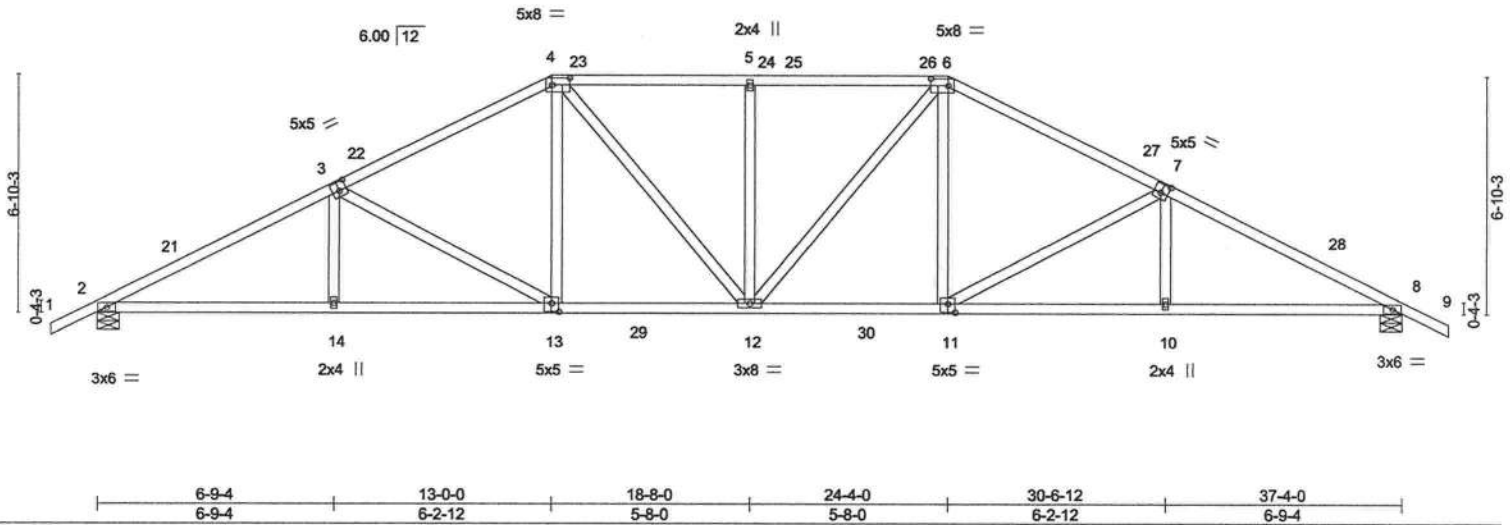


Plate Offsets (X,Y) - [3:0-2-8,0-3-0], [4:0-6-0,0-2-8], [6:0-6-0,0-2-8], [7:0-2-8,0-3-0], [11:0-2-8,0-3-0], [13:0-2-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.37	Vert(LL)	-0.18	11-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.30	11-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.12	8	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.14	12	>999		
								Weight: 203 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

REACTIONS.

(size) 2=0-7-8, 8=0-7-8
Max Horz 2=192(LC 11)
Max Uplift 2=451(LC 12), 8=451(LC 12)
Max Grav 2=1658(LC 17), 8=1658(LC 18)

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

TOP CHORD 2-3=2993/849, 3-4=2360/748, 4-5=2234/780, 5-6=2234/780, 6-7=2360/748,
7-8=2994/849
BOT CHORD 2-14=632/2749, 13-14=633/2744, 12-13=397/2129, 11-12=411/2029, 10-11=654/2601,
8-10=653/2606
WEBS 3-13=706/279, 4-13=86/545, 4-12=110/426, 5-12=383/197, 6-12=110/426,
6-11=86/545, 7-11=706/279

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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-4-13, Interior(1) 2-4-13 to 13-0-0, Exterior(2R) 13-0-0 to 18-3-6, Interior(1) 18-3-6 to 24-4-0, Exterior(2R) 24-4-0 to 29-7-6, Interior(1) 29-7-6 to 38-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=451, 8=451.



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

March 22,2022

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/TPH 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

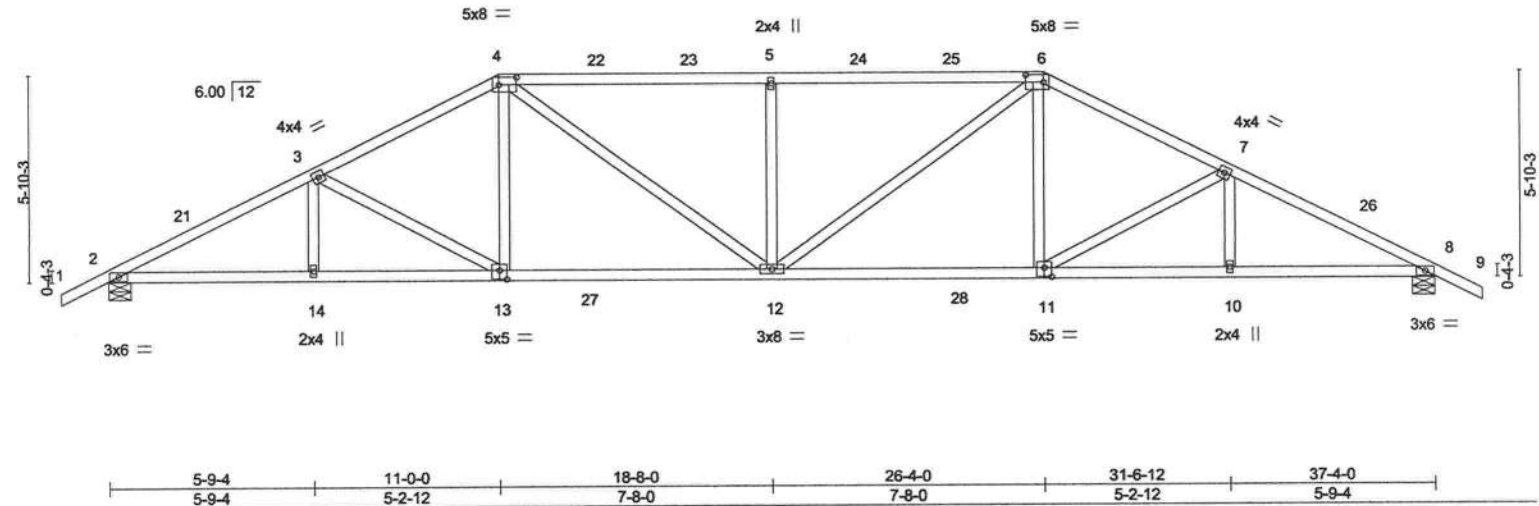
Job B220030	Truss A4	Truss Type Hip	Qty 2	Ply 1	Job Reference (optional) T27193386
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MITek Industries, Inc. Mon Mar 21 11:52:01 2022 Page 1
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Scale = 1:65.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.23 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.39 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.12 8	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.17 12	>999	240		
								Weight: 195 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-1 oc bracing.

REACTIONS. (size) 2=0-7-8, 8=0-7-8
Max Horz 2=165(LC 11)
Max Uplift 2=451(LC 12), 8=451(LC 12)
Max Grav 2=1657(LC 17), 8=1657(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=3038/859, 3-4=2545/772, 4-5=2666/870, 5-6=2666/870, 6-7=2545/772,
7-8=3038/859
BOT CHORD 2-14=652/2778, 13-14=652/2778, 12-13=458/2298, 11-12=468/2188, 10-11=674/2655,
8-10=674/2655
WEBS 3-13=550/236, 4-13=61/497, 4-12=176/667, 5-12=531/269, 6-12=176/667,
6-11=61/497, 7-11=551/235

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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-4-13, Interior(1) 2-4-13 to 11-0-0, Exterior(2R) 11-0-0 to 16-3-6, Interior(1) 16-3-6 to 26-4-0, Exterior(2R) 26-4-0 to 31-6-12, Interior(1) 31-6-12 to 38-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 7.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=451, 8=451.



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

March 22,2022

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6904 Parke East Blvd.
Tampa, FL 36610

Job B220030	Truss A5	Truss Type Hip	Qty 2	Ply 1	T27193387
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:02 2022 Page 1

ID:Ua5GqTi0aS1zIbAwNvZbH7zYjqv-S0h4rjK7ZTUfEIQmaUDrVC3B1?iimBwyLVFL8zYJTb

1-4-0	4-9-4	9-0-0	15-5-5	21-10-11	28-4-0	32-6-12	37-4-0	38-8-0
1-4-0	4-9-4	4-2-12	6-5-5	6-5-5	6-5-5	4-2-12	4-9-4	1-4-0

Scale = 1:65.2

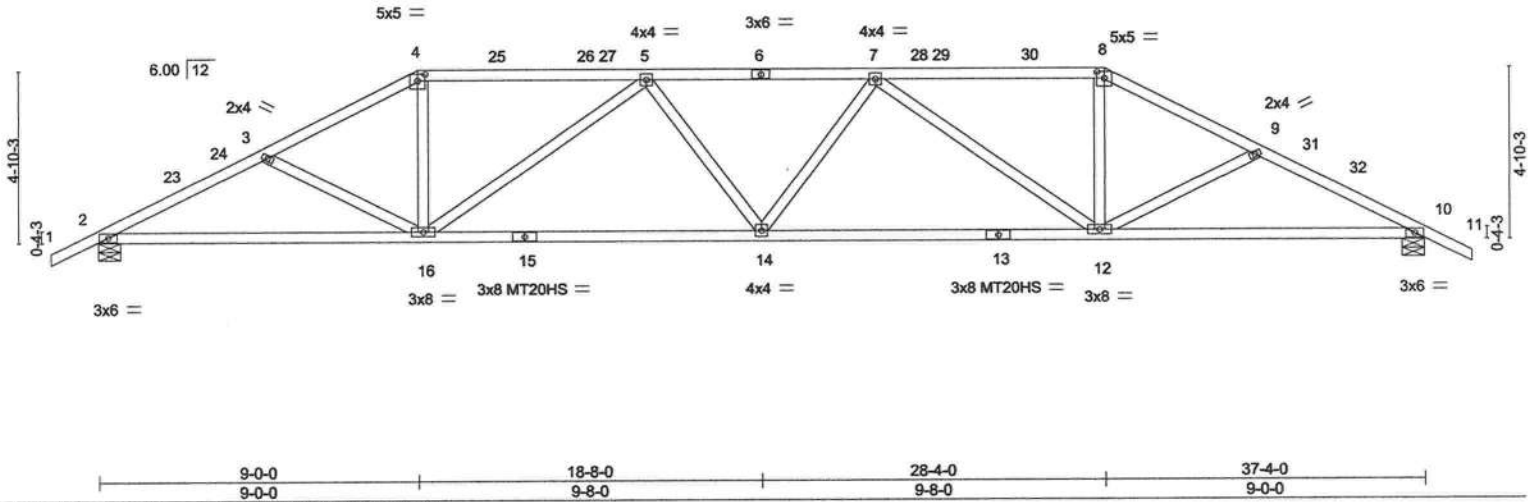


Plate Offsets (X,Y)- [4:0-2-8,0-2-4], [8:0-2-8,0-2-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.40	Vert(LL) -0.20	14	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.66	Vert(CT) -0.41	14-16	>999	240		MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.13	10	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL) 0.20	14	>999	240			
								Weight: 184 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.

REACTIONS. (size) 2=0-7-8, 10=0-7-8
Max Horz 2=138(LC 10)
Max Uplift 2=451(LC 12), 10=451(LC 12)
Max Grav 2=1461(LC 1), 10=1461(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2679/887, 3-4=2403/781, 4-5=2118/747, 5-7=2819/940, 7-8=2118/747,
8-9=2403/781, 9-10=2679/887
BOT CHORD 2-16=687/2363, 14-16=745/2772, 12-14=734/2772, 10-12=708/2363
WEBS 3-16=323/221, 4-16=180/747, 5-16=885/291, 7-12=885/291, 8-12=180/747,
9-12=324/221

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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 2-4-13, Interior(1) 2-4-13 to 9-0-0, Exterior(2R) 9-0-0 to 14-3-6, Interior(1) 14-3-6 to 28-4-0, Exterior(2R) 28-4-0 to 33-7-6, Interior(1) 33-7-6 to 38-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=451, 10=451.



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

March 22,2022

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6904 Parke East Blvd.
Tampa, FL 33610

Job B220030	Truss AG	Truss Type HIP GIRDER	Qty 2	Ply 1	Job Reference (optional) T27193388
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:04 2022 Page 1

ID:Ua5GqTt0aS1zlbAwNvZbH7zYjqv-OPpqGPmbfAJCuXvot?XhwwHluqgJA7DQf_MP1zYJT9

1-4-0	3-11-4	7-0-0	11-9-1	16-4-6	20-11-10	25-6-15	30-4-0	33-4-12	37-4-0	38-8-0
1-4-0	3-11-4	3-0-12	4-9-1	4-7-5	4-7-5	4-7-5	4-9-1	3-0-12	3-11-4	1-4-0

Scale = 1:65.2

THIS TRUSS IS NOT SYMMETRIC.
PROPER ORIENTATION IS ESSENTIAL.

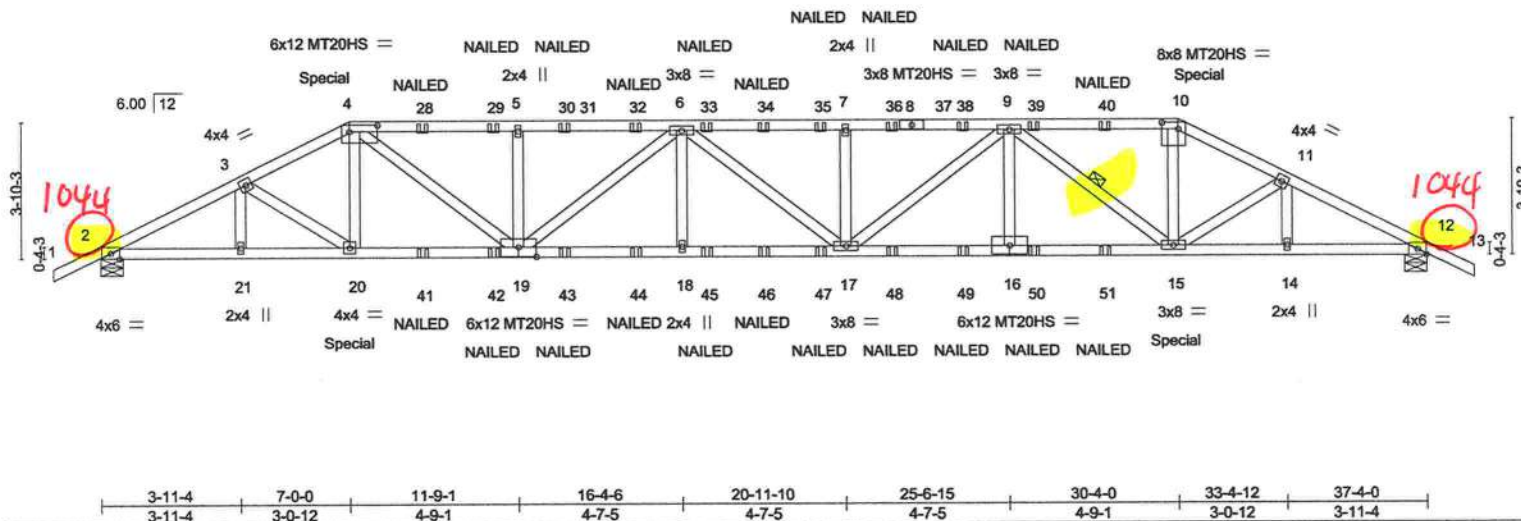


Plate Offsets (X,Y) - [4:0-9-8,0-2-4], [10:0-5-8,0-2-4], [19:0-6-0,0-3-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.84	Vert(LL)	-0.52 17-18	>866	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.65	Vert(CT)	-0.91 17-18	>494	240	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr NO	WB 0.48	Horz(CT)	0.24 12	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL)	0.59 17-18	>756	240		
							Weight: 203 lb	FT = 0%

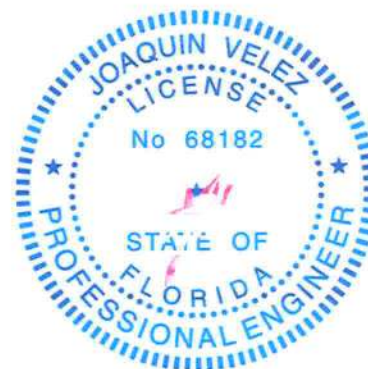
LUMBER-
TOP CHORD 2x4 SP No.1 "Except"
4-8: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-11-5 oc bracing.
WEBS 1 Row at midpt 9-15

REACTIONS. (size) 2=0-7-8, 12=0-7-8
Max Horz 2=112(LC 7)
Max Uplift 2=1044(LC 8), 12=1044(LC 8)
Max Grav 2=2714(LC 1), 12=2714(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=5413/2019, 3-4=5278/2037, 4-5=6504/2610, 5-6=6504/2610, 6-7=7240/3034, 7-9=7240/3034, 9-10=4772/1873, 10-11=5276/2035, 11-12=5412/2019
BOT CHORD 2-21=1706/4788, 20-21=1706/4788, 19-20=1665/4718, 18-19=2851/7243, 17-18=2851/7243, 16-17=2427/6507, 15-16=2427/6507, 14-15=1705/4787, 12-14=1705/4787
WEBS 3-20=286/199, 4-20=68/571, 4-19=948/2262, 5-19=585/335, 6-19=960/539, 7-17=531/322, 9-17=531/952, 9-16=0/327, 9-15=2222/934, 10-15=636/1873, 11-15=287/201

- 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=4.2psf; h=25ft; B=45ft; L=37ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1044, 12=1044.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 218 lb down and 251 lb up at 7-0-0, and 218 lb down and 251 lb up at 30-4-0 on top chord, and 331 lb down and 85 lb up at 7-0-0, and 331 lb down and 85 lb up at 30-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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Date:

March 22,2022

LOAD CASE(S) Standard

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	T27193388
B220030	AG	HIP GIRDER	2	1	

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:04 2022 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-10=-60, 10-13=-60, 22-25=-14

Concentrated Loads (lb)

Vert: 4=-171(F) 10=-171(F) 20=-329(F) 15=-329(F) 28=-118(F) 29=-118(F) 30=-122(F) 32=-104(F) 33=-104(F) 34=-104(F) 35=-104(F) 36=-104(F) 38=-122(F) 39=-118(F) 40=-118(F) 41=-57(F) 42=-57(F) 43=-61(F) 44=16(F) 45=16(F) 46=16(F) 47=16(F) 48=16(F) 49=-61(F) 50=-57(F) 51=-57(F)



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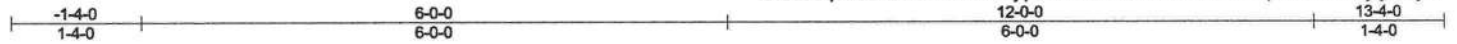


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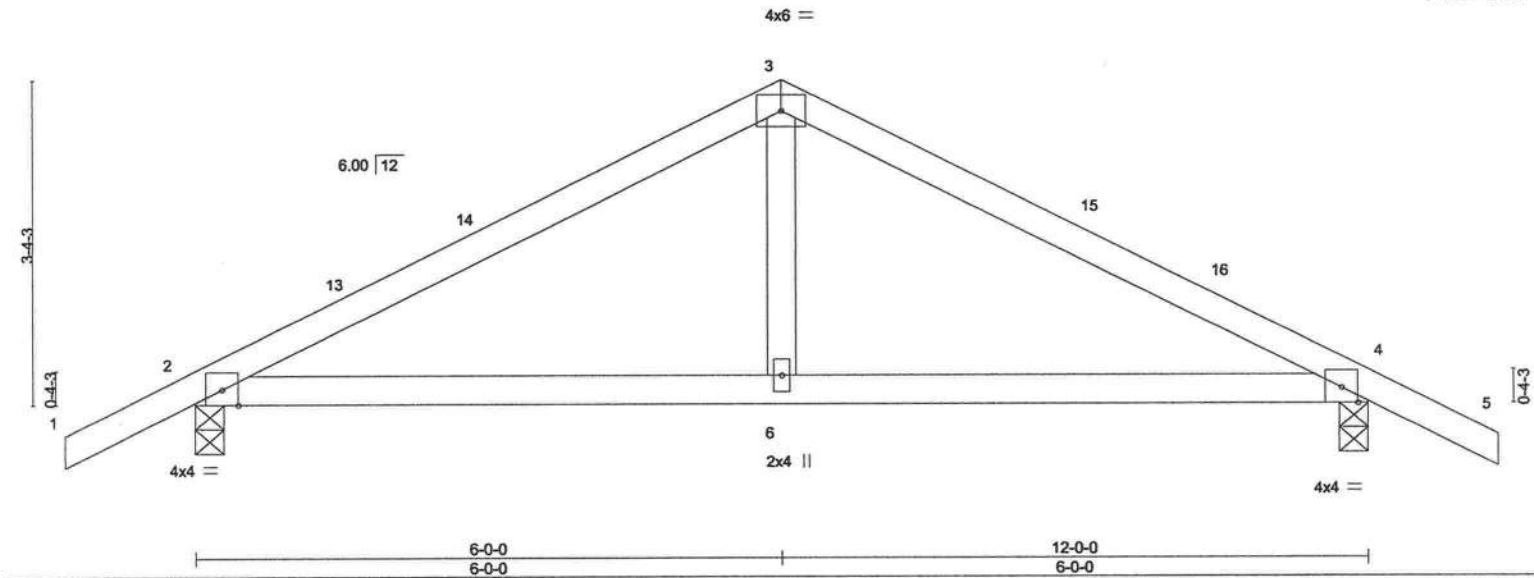
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
B220030	B	Roof Special	2	1	

T27193389

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:05 2022 Page 1
ID:Ua5GqTt0aS1zIbAwNvZbH7zYjqv-sbNCTInDQUr3WhT?Ri2wT7qcHE7kvJINfJjvyTzYjT8

Scale = 1:23.7



LOADING (psf)	SPACING- 2-0-0	CSL	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL)	-0.04 6-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.25	Vert(CT)	-0.06 6-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.01 4	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MS	Wind(LL)	0.04 6-12	>999	240	Weight: 47 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=86(LC 11)
Max Uplift 2=190(LC 12), 4=190(LC 12)
Max Grav 2=524(LC 1), 4=524(LC 1)

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

TOP CHORD 2-3=619/388, 3-4=619/388
BOT CHORD 2-6=170/490, 4-6=170/490

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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 13-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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=190, 4=190.



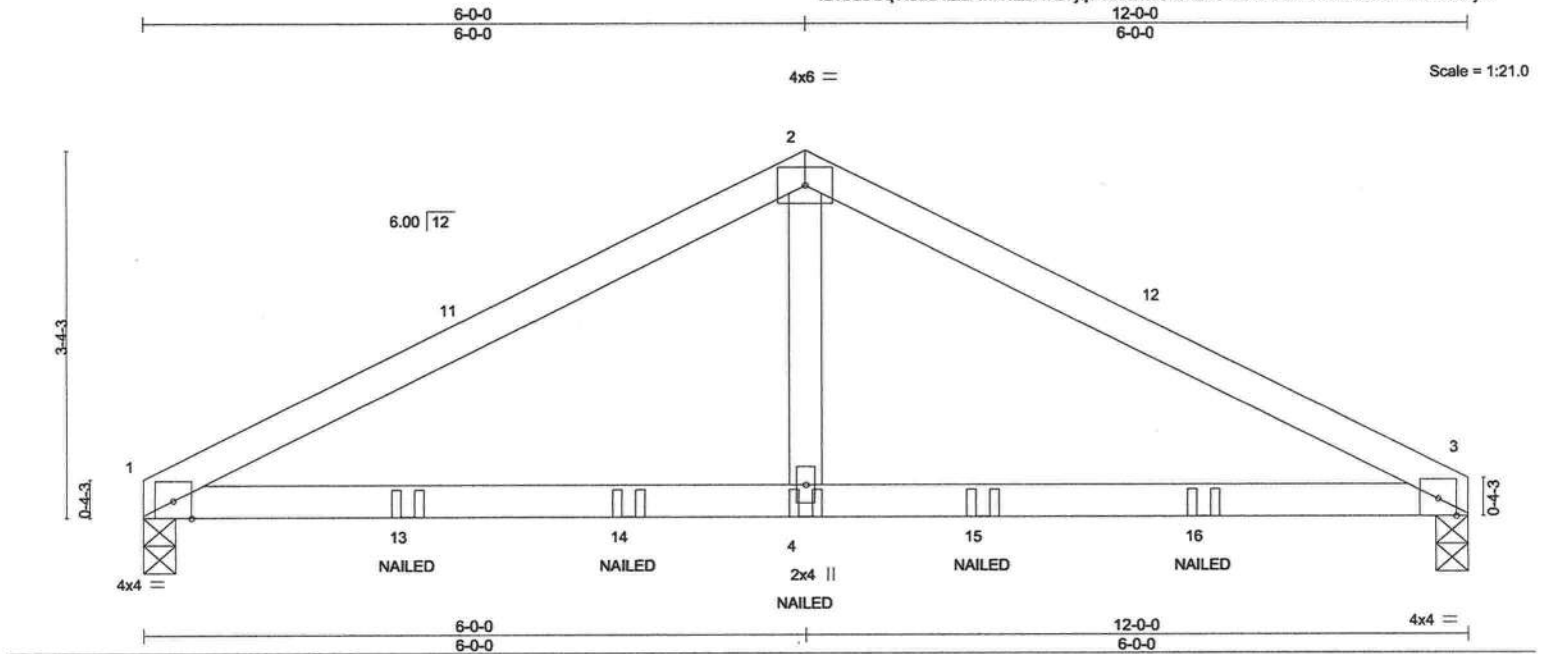
Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 22, 2022

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Tampa, FL 33610



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	-0.10	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.73	Horz(CT)	-0.16	4-7	>899	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS	Wind(LL)	0.08	4-7	>999	240	Weight: 42 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-8-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 9-11-12 oc bracing.

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=70(LC 31)
 Max Uplift 1=184(LC 12), 3=184(LC 12)
 Max Grav 1=870(LC 1), 3=870(LC 1)

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

TOP CHORD 1-2=1342/527, 2-3=1342/527
BOT CHORD 1-4=352/1162, 3-4=352/1162
WEBS 2-4=122/766

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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl.; GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior(1) 9-0-0 to 12-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
1=184, 3=184.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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: 1-2=-60, 2-3=-60, 5-8=-14
Concentrated Loads (lb)
Vert: 4=-170(B) 13=-170(B) 14=-170(B) 15=-170(B) 16=-170(B)



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March 22, 2022



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
B220030	CG	Diagonal Hip Girder	4	1	T27193391

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:07 2022 Page 1
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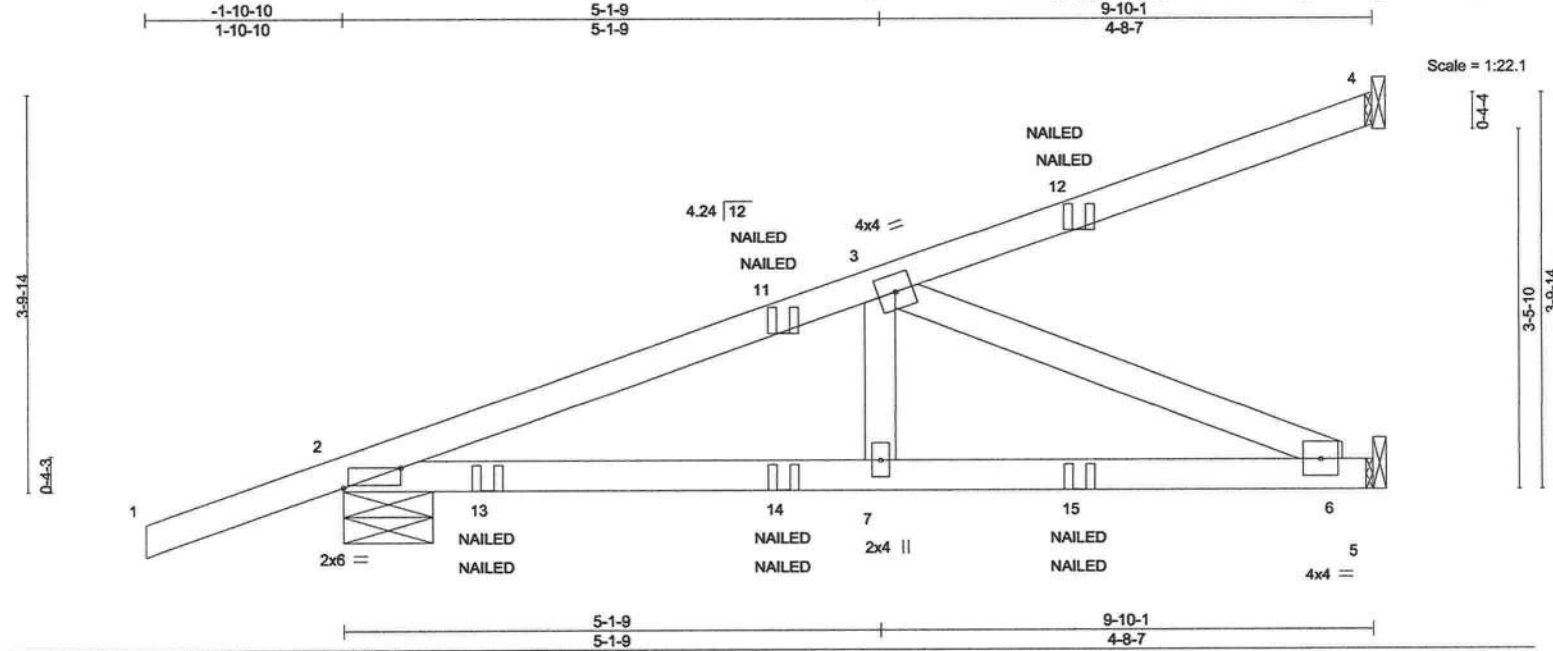


Plate Offsets (X,Y) [2:0-6-9,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.06 7-10	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.32	Vert(CT)	-0.06 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.01 5	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 42 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 4=Mechanical, 2=0-10-4, 5=Mechanical
Max Horz 2=183(LC 8)
Max Uplift 4=-79(LC 8), 2=-286(LC 8), 5=-82(LC 8)
Max Grav 4=138(LC 1), 2=604(LC 28), 5=322(LC 28)

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

TOP CHORD 2-3=-788/177
BOT CHORD 2-7=-266/723, 6-7=-266/723
WEBS 3-6=-784/289

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=286.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 5-8=-14
Concentrated Loads (lb)
Vert: 12=-71(F=-36, B=-36) 13=120(F=60, B=60) 14=-9(F=-5, B=-5) 15=-56(F=-28, B=-28)



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

March 22,2022

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6904 Parke East Blvd.
Tampa, FL 33610

Job B220030	Truss CGE	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Job Reference (optional) T27193392
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:08 2022 Page 1

ID:Ua5GqT0aS1zlbAwNvZbH7zYjqv-HA3L6mp5jPDeN9CZ6qbd5mSADSBK6g4pLHyaYozYT5



Scale = 1:24.3

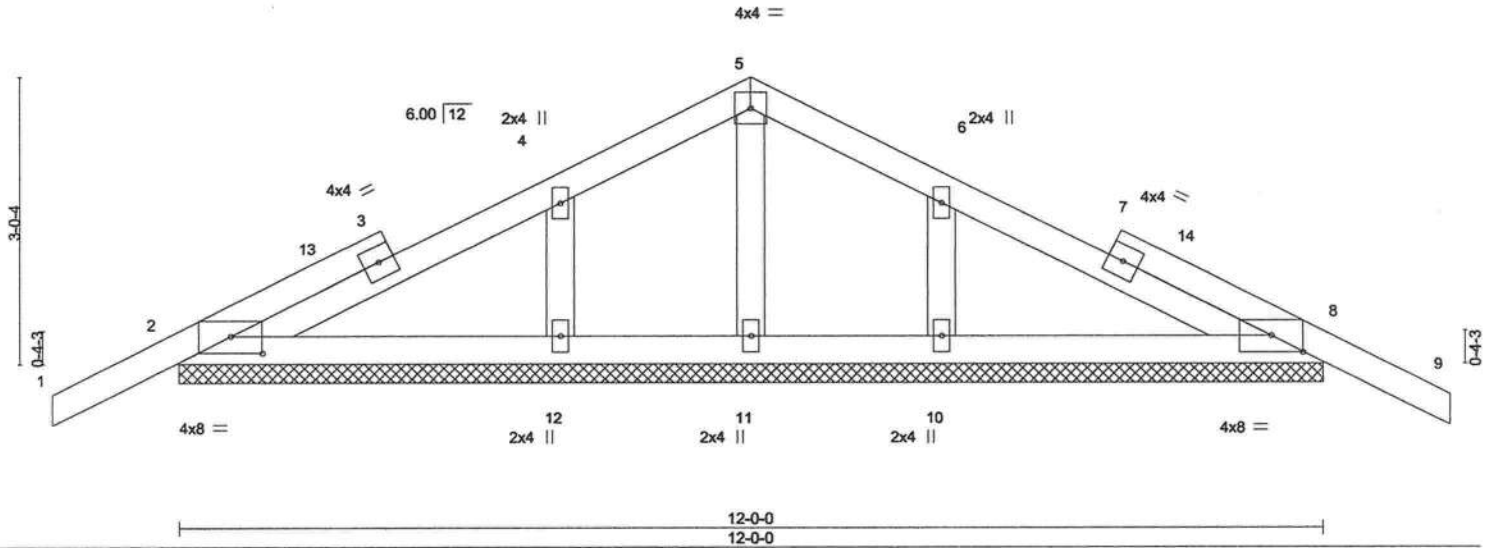


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [8:0-4-0,0-2-1]

LOADING (psf)	SPACING-		CSL	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	8	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	8	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-S							
									Weight: 56 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.1

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

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 2=-78(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 12, 10 except 2=-114(LC 12), 8=-114(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 11 except 12=266(LC 21), 10=266(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-12=-207/290, 6-10=-207/289

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=4.2psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 6-0-0, Corner(3R) 6-0-0 to 9-0-0, Exterior(2N) 9-0-0 to 13-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 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) 12, 10 except (jt=lb) 2=114, 8=114.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



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Date:

March 22,2022

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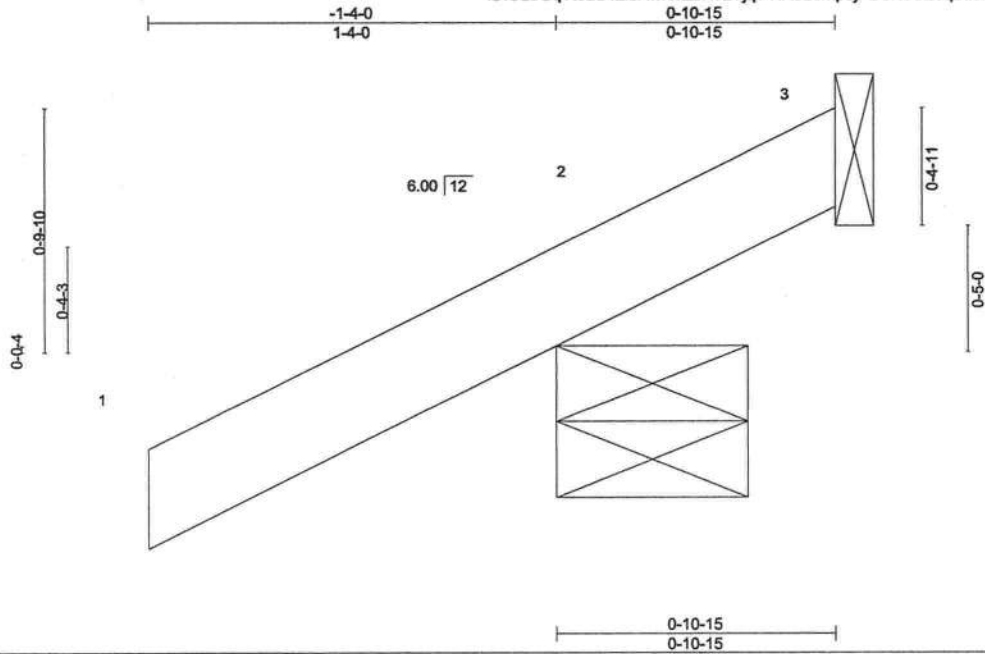


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	
B220030	CJ1	Jack-Open	8	1	T27193393

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:08 2022 Page 1
ID:Ua5GqTt0aS1zIbAwNvZbH7zYjqv-HA3L6mp5jPDeN9CZ6qbd5mS91SCM6gcpLHyaYozYJT5



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 0.19	Vert(LL)	0.00	2	>999	360	
TCDL 10.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	2	>999	240	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a	
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	-0.00	2	>999	240	
								Weight: 4 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 0-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 3=Mechanical, 2=0-7-8
Max Horz 2=63(LC 12)
Max Uplift 3=121(LC 1), 3=121(LC 1), 2=238(LC 12)
Max Grav 3=139(LC 12), 2=255(LC 1)

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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=121, 2=238.
- 6) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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Date:

March 22,2022

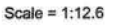
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Tampa, FL 33610

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:09 2022 Page 1
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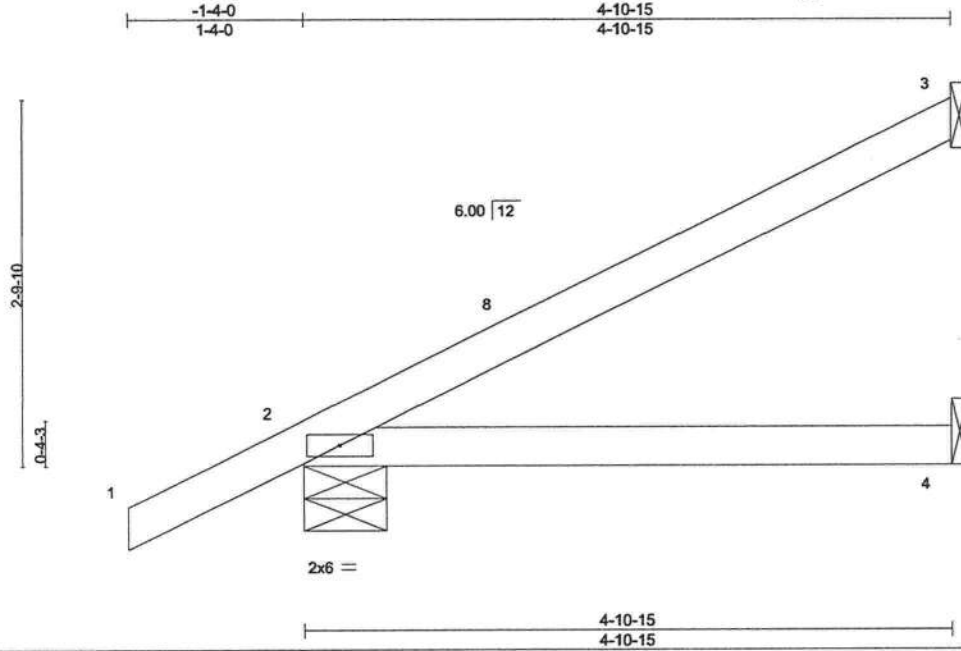


Job	Truss	Truss Type	Qty	Ply	
B220030	CJ5	Jack-Open	8	1	T27193395

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:10 2022 Page 1

ID:Ua5GqTt0aS1zIbAwNvZbH7zYjqv-DZA5XSrME0TLcSMYEFd5ABXTFFrlaZ66obRgdhZYT3



Scale = 1:17.6

LOADING (psf)	SPACING-	CSL	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.27	Vert(LL) -0.02	4-7	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.23	Vert(CT) -0.04	4-7	>999	240			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3	n/a	n/a			
BCDL 7.0	Code FBC2020/TPI2014	Matrix-MP	Wind(LL) 0.04	4-7	>999	240		Weight: 18 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

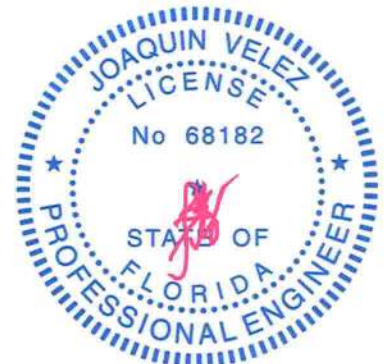
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=141(LC 12)
Max Uplift 3=71(LC 12), 2=102(LC 12)
Max Grav 3=121(LC 1), 2=270(LC 1), 4=76(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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 except (jt=lb) 2=102.



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Date:

March 22,2022

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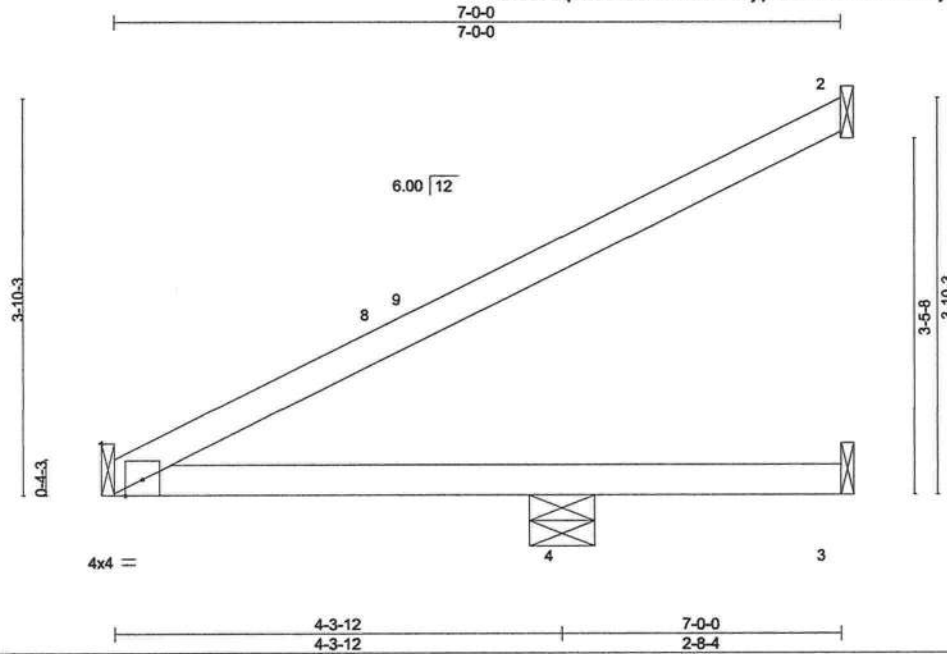
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
B220030	CJ7	Jack-Open	5	1	T27193396

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:10 2022 Page 1

ID:Ua5GqTt0aS1zIbAwNvZbH7zYjqv-DZA5XSrME0TLcSMYEFd5ABXPBFn6aZ66obRgdhzYJT3



Scale = 1:22.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.53	Vert(LL)	-0.03	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.06	4-7	>907	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.06	4-7	>901	240	Weight: 22 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

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 Mechanical except (jt=length) 4=0-7-8.
(lb) - Max Horz 1=142(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 3, 4 except 2=106(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 2, 3, 4

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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, 4 except (jt=lb) 2=106.



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Date:

March 22,2022

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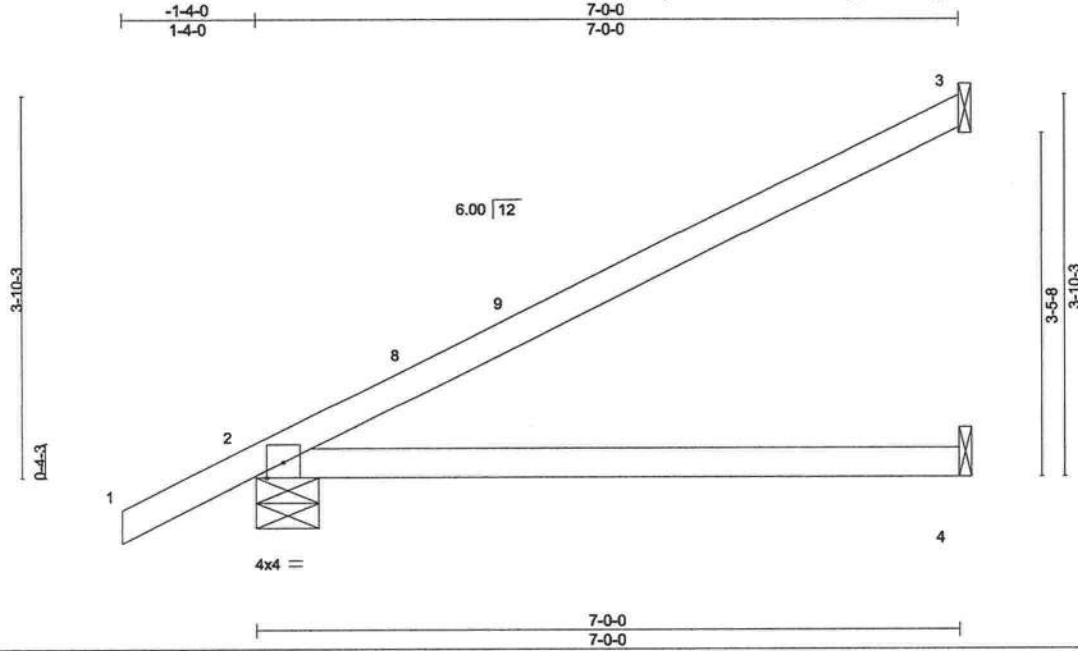
6904 Parke East Blvd.
Tampa, FL 33610

Job B220030	Truss CJ71	Truss Type Jack-Open	Qty 19	Ply 1	Job Reference (optional) T27193397
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American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:11 2022 Page 1

ID:Ua5GqTt0aS1zlbAwNvZbH7zYjqv-hlkTkos_?KbCEcx8oz9KIO4ZAf7UJ0LF1FBE97zYJT2



Scale = 1:23.0

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.08	4-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.42	Vert(CT)	-0.18	4-7	>469	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.14	4-7	>583	240	Weight: 24 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 2=0-7-8, 4=Mechanical
Max Horz 2=183(LC 12)
Max Uplift 3=107(LC 12), 2=110(LC 12)
Max Grav 3=178(LC 1), 2=344(LC 1), 4=111(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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; 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; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=107, 2=110.



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Date:

March 22,2022

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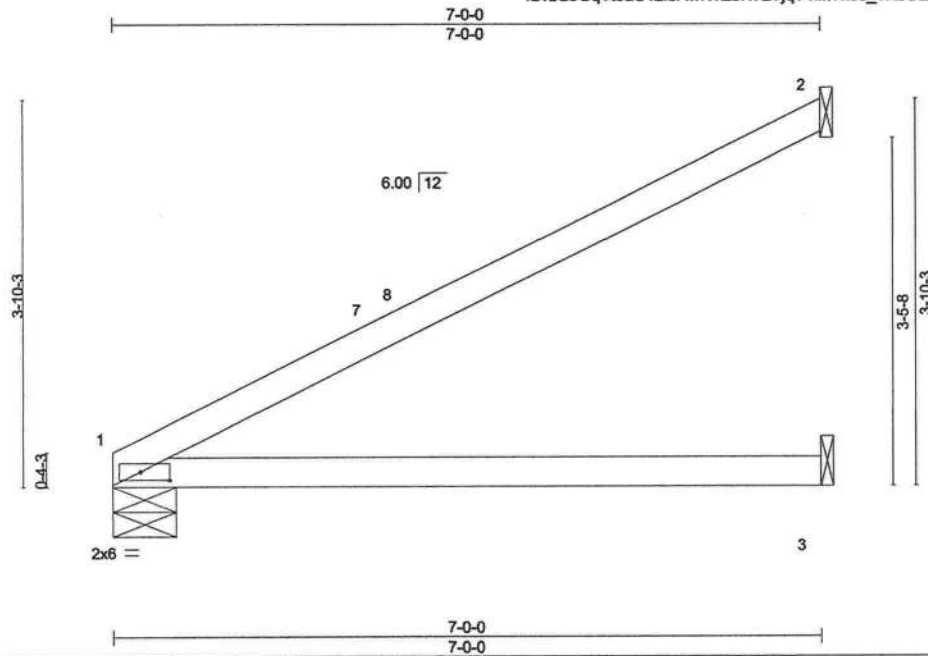


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	
B220030	CJ72	Jack-Open	2	1	

T27193398

American Truss of Chiefland, Chiefland, FL - 32626,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Mar 21 11:52:11 2022 Page 1
ID:Ua5GqTt0aS1zlbAwNvZbH7zYjqv-hlkTkos_?KbCEcx8oz9KIO4Zxf6yJ0LF1FBE97zYJT2

Scale = 1:22.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.09	3-6	>890	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.19	3-6	>427	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 7.0	Code FBC2020/TPI2014		Matrix-MP	Wind(LL)	0.16	3-6	>535	240	Weight: 22 lb	FT = 0%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1

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) 1=0-7-8, 2=Mechanical, 3=Mechanical
Max Horz 1=142(LC 12)
Max Uplift 1=-35(LC 12), 2=-111(LC 12)
Max Grav 1=257(LC 1), 2=182(LC 1), 3=112(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=4.2psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 except (jt=lb) 2=111.



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

March 22,2022

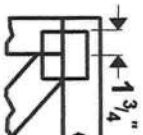
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



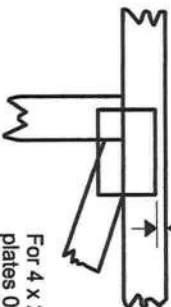
6904 Parke East Blvd.
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

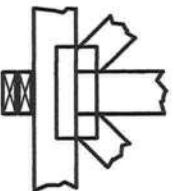
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



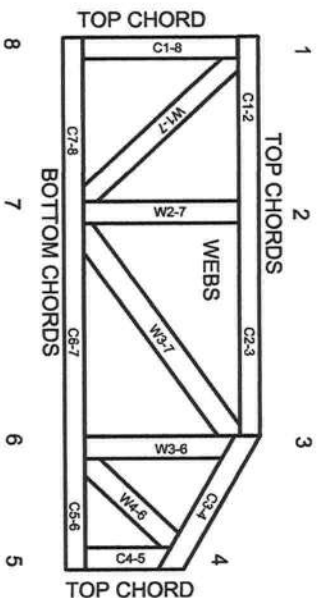
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

