

Legend

2018 Flood Zones

0.2 PCT ANNUAL CHANCE

A

AE

AH

Lidar Elevations

X



2009 Base Flood Elevations

DEFAULT

Base Flood Elevations

Parcels

Roads

Roads

others

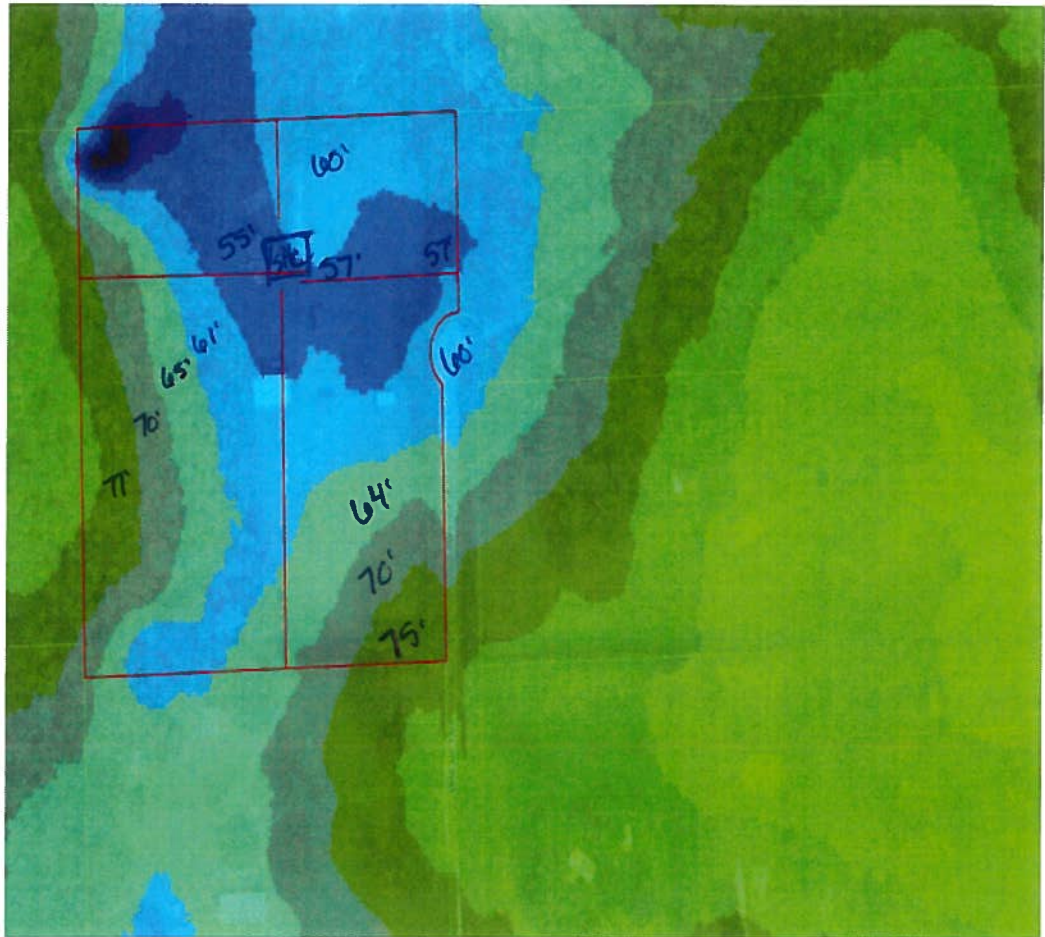
Dirt

Interstate

Main

Columbia County, FLA - Building & Zoning Property Map

Printed: Mon Nov 04 2019 12:03:59 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 36-6S-16-04096-011

Owner: KOLACIA PETER R

Subdivision: ARROW WOOD

Lot: 21

Acres: 10.1511574

Deed Acres: 9.98 Ac

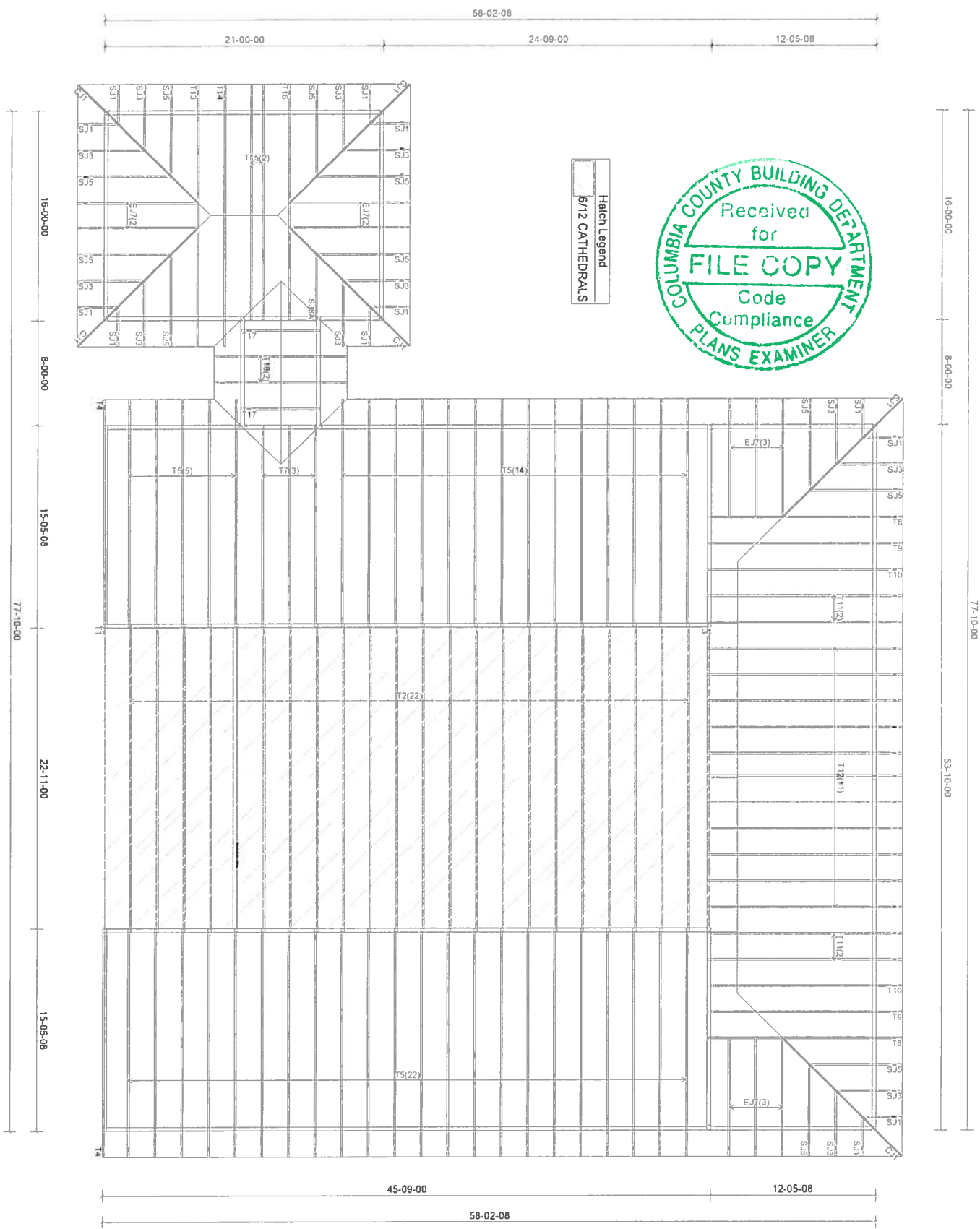
District: District 2 Rocky Ford

Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

All data, information, and maps are provided "as is" without warranty or any representation of accuracy, timeliness of completeness. Columbia County, FL makes no warranties, express or implied, as to the use of the information obtained here. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts all limitations, including the fact that the data, information, and maps are dynamic and in a constant state of maintenance, and update.



JOB NO.
S1204

Customer: 84 LUMBER
Description: KOLACIA RES.
Designer: Jack Duley

Pitch: ---
Overhang: ---

PRODUCT APPROVAL NUMBER
FL 2197.4
MT20 PLATES
MITEK INDUSTRIES, INC.





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

RE: S1204 - KOLACIA RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: 84 LUMBER Project Name: KOLACIA Model: .
Lot/Block: . Subdivision: .
Address: 554 SW LIME ST, .
City: FT WHITE State: FL

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

Name: License #:
Address:
City: State:

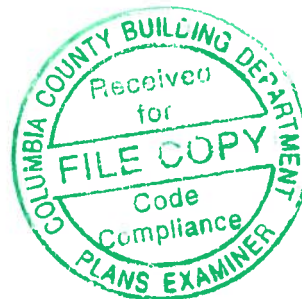
General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FRC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 140 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 23 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	T18492273	CJ1	10/28/19	23	T18492295	T18	10/28/19
2	T18492274	EJ7	10/28/19				
3	T18492275	SJ1	10/28/19				
4	T18492276	SJ3	10/28/19				
5	T18492277	SJ5	10/28/19				
6	T18492278	SJ5A	10/28/19				
7	T18492279	T1	10/28/19				
8	T18492280	T2	10/28/19				
9	T18492281	T3	10/28/19				
10	T18492282	T4	10/28/19				
11	T18492283	T5	10/28/19				
12	T18492284	T7	10/28/19				
13	T18492285	T8	10/28/19				
14	T18492286	T9	10/28/19				
15	T18492287	T10	10/28/19				
16	T18492288	T11	10/28/19				
17	T18492289	T12	10/28/19				
18	T18492290	T13	10/28/19				
19	T18492291	T14	10/28/19				
20	T18492292	T15	10/28/19				
21	T18492293	T16	10/28/19				
22	T18492294	T17	10/28/19				

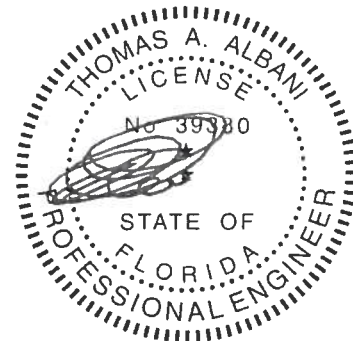


The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Duley Truss.

Truss Design Engineer's Name: Albani, Thomas

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

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.



Thomas A. Albani PE No. 39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 28, 2019

Albani, Thomas

1 of 1

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492273
S1204	CJ1	Diagonal Hip Girder	6	1	Job Reference (optional)	

Duley Truss, Dunneillon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 40 2019 Page 1

ID uYSKTxEuWg0DB?A7m3VQ3jyh4in-9EVINIVe0ZNjUkZRSn83hZk6V8m?A2IGbsu49yyOyNr



Scale 1/2"=1'

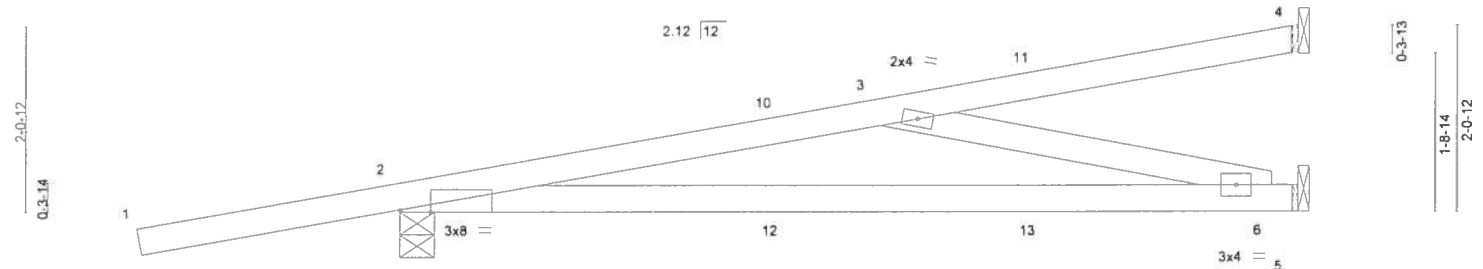


Plate Offsets (X,Y)-- [2-0-4-1,Edge]		9-10-1		9-10-1	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	-0.25 6-9 >460 240
TCOL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.45 6-9 >261 180
BCLL 0.0	Rep Stress Incr	NO	WB 0.38	Horz(CT)	0.01 5 n/a n/a
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS		
					Weight: 40 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-1 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing

REACTIONS. (lb/size) 4=114/Mechanical, 2=468/0-4-9, 5=286/Mechanical
Max Horz 2=151(LC 20)
Max Uplift 4=-112(LC 4), 2=-498(LC 4), 5=-61(LC 4)
Max Grav 4=116(LC 17), 2=672(LC 28), 5=340(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1044/463
BOT CHORD 2-6=-518/1043
WEBS 3-6=-1069/531

NOTES-

- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; 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
- 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 112 lb uplift at joint 4, 498 lb uplift at joint 2 and 61 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 28 lb down and 35 lb up at 4-1-14, 28 lb down and 35 lb up at 4-1-14, and 53 lb down and 94 lb up at 6-11-13, and 53 lb down and 94 lb up at 6-11-13 on top chord, and 176 lb down and 156 lb up at 1-3-15, 176 lb down and 156 lb up at 1-3-15, 21 lb down at 4-1-14, 21 lb down at 4-1-14, and 32 lb down at 6-11-13, and 32 lb down at 6-11-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert. 1-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert. 9=121(F=61, B=61) 11=-57(F=-28, B=-28) 12=-1(F=-0, B=-0) 13=-54(F=-27, B=-27)



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Date:

October 28,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492274
S1204	EJ7	Jack-Open	10	1		
Job Reference (optional)						

Duley Truss Dunnellon, FL - 34430

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 41 2019 Page 1

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Scale = 1/17.4

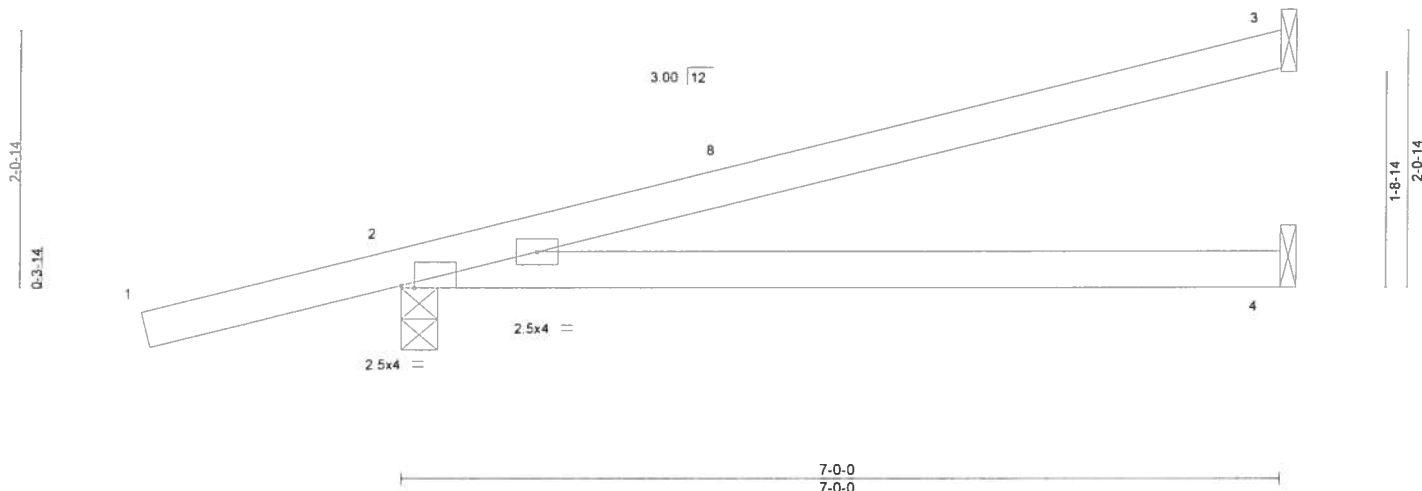


Plate Offsets (X,Y)-- [2 0-1-4,Edge]

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 0.52	Vert(LL)	0.12	4-7	>710	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.17	4-7	>482	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	2	n/a	n/a	
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MP						
									Weight: 24 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 2D

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. (lb/size) 3=158/Mechanical, 2=383/0-3-8, 4=83/Mechanical
Max Horz 2=129(LC 8)
Max Uplift 3=-116(LC 8), 2=-259(LC 8)
Max Grav 3=158(LC 1), 2=383(LC 1), 4=121(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft, B=45ft, L=24ft, eave=4ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 116 lb uplift at joint 3 and 259 lb uplift at joint 2.



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MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492275
S1204	SJ1	Jack-Open	12	1		

Duley Truss, Dunnellon, FL - 34430.

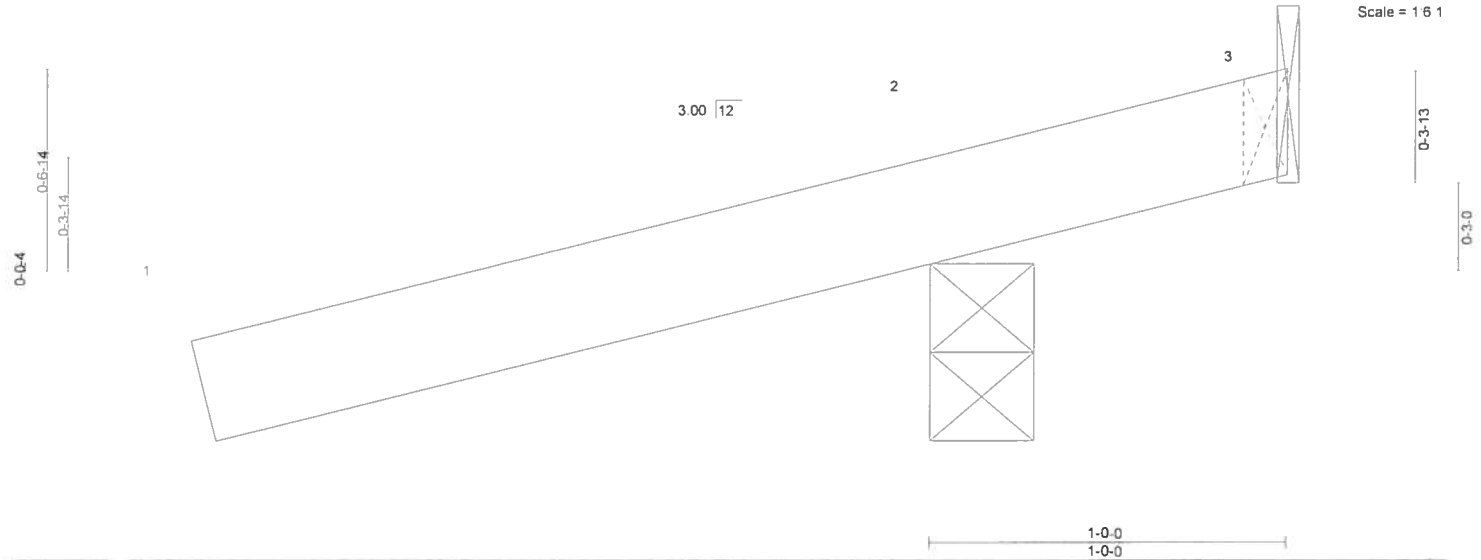
8 240 s Jul 14 2019 MiTek Industries, Inc. Mon Oct 28 07 24 42 2019 Page 1
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-2-0-0
2-0-0

0-11-10
0-11-10

1-0-0
0-0-6

Scale = 1/8" = 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 0.37	Vert(LL)	0.00	2	>999	240		
TCDL 7.0	Lumber DOL	1.25	BC 0.00	Vert(CT)	0.00	2-3	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MP						Weight 5 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2D

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

REACTIONS. (lb/size) 3=-129/Mechanical, 2=292/0-3-8
Max Horz 2=53(LC 8)
Max Uplift 3=-129(LC 1), 2=-370(LC 8)
Max Grav 3=184(LC 8), 2=292(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C, Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) * 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 3 and 370 lb uplift at joint 2.
- 5) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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October 28, 2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492276
S1204	SJ3	Corner Jack	12	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430.

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 42 2019 Page 1
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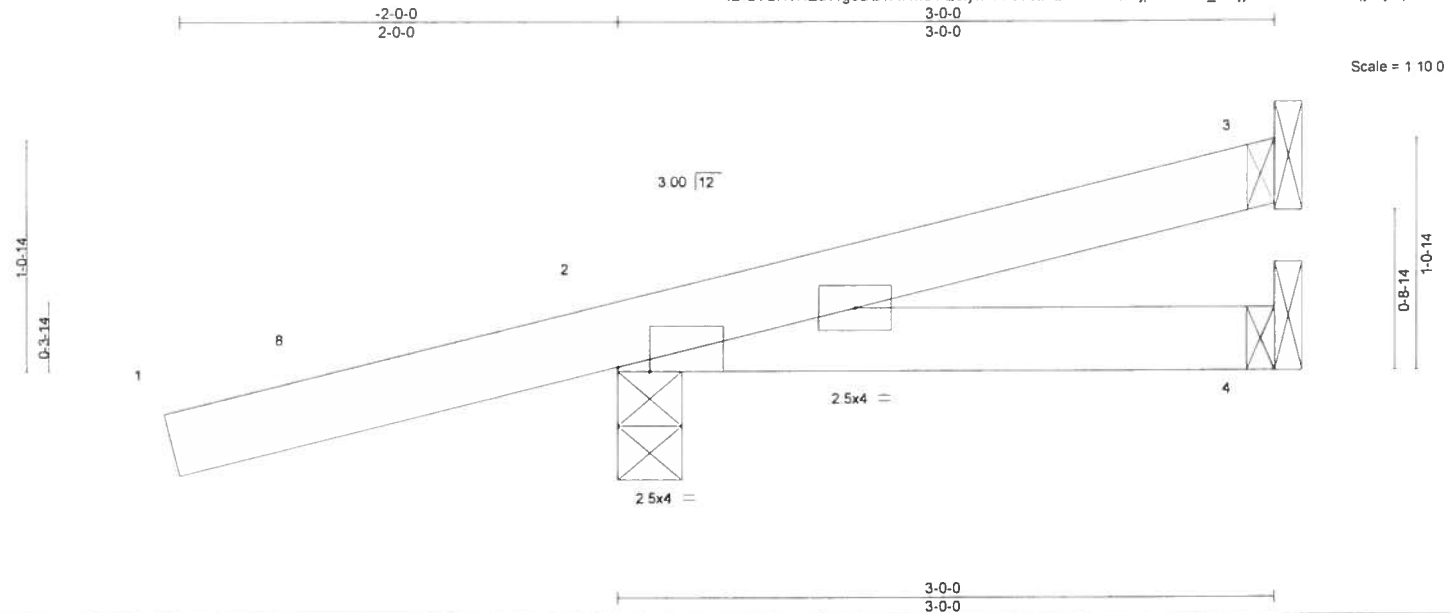


Plate Offsets (X,Y)--		[2 0-1-12,Edge]													
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP				
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	7	>999	240	MT20	244/190			
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	7	>999	180					
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a					
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MP											
												Weight: 12 lb	FT = 20%		

LUMBER-

TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 2D

BRACING-

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

REACTIONS.

(lb/size) 3=48/Mechanical, 2=257/0-3-8, 4=23/Mechanical
Max Horz 2=77(LC 8)
Max Uplift 3=-23(LC 8), 2=-231(LC 8)
Max Grav 3=48(LC 1), 2=257(LC 1), 4=44(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 2-11-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 23 lb uplift at joint 3 and 231 lb uplift at joint 2.



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October 28, 2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492277
S1204	SJ5	Corner Jack	11	1	Job Reference (optional)	

Duley Truss Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 43 2019 Page 1

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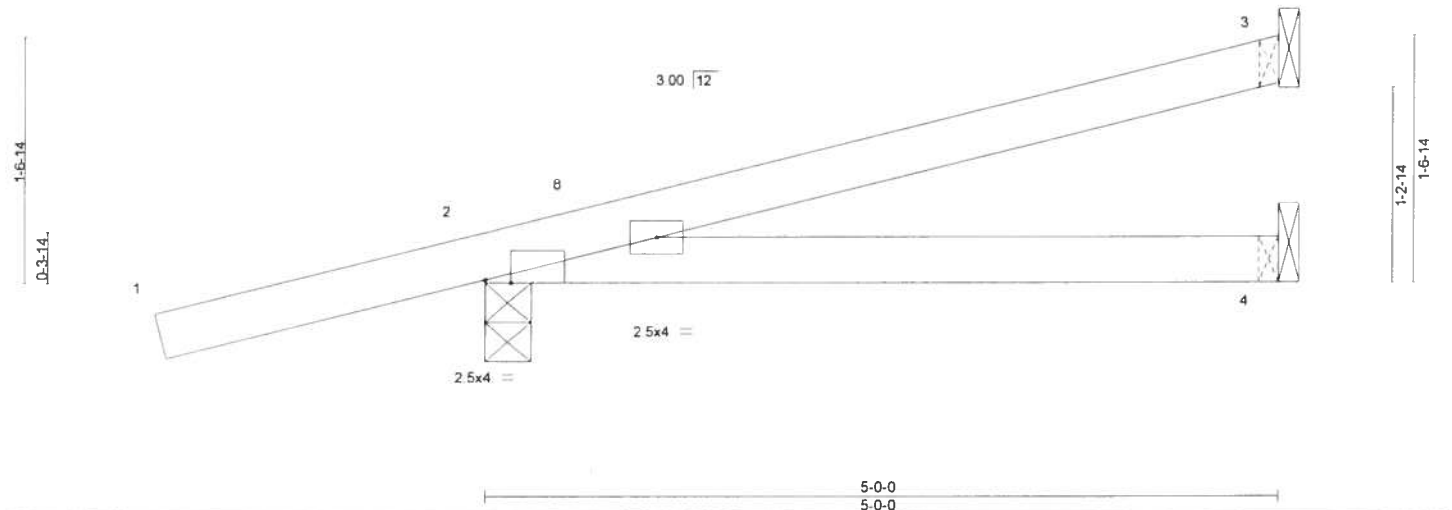


Plate Offsets (X,Y)--		[2 0-2-0,Edge]													
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP				
TCLL 20.0		Plate Grip DOL	1.25	TC 0.32		Vert(LL)	0.04 4-7	>999	240	MT20	244/190				
TCDL 7.0		Lumber DOL	1.25	BC 0.23		Vert(CT)	-0.04 4-7	>999	180						
BCLL 0.0	*	Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00 3	n/a	n/a						
BCDL 10.0		Code FRC2017/TPI2014		Matrix-MP											
										Weight: 18 lb	FT = 20%				

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2D	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD	2x4 SP No 2D	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=105/Mechanical, 2=315/0-3-8, 4=55/Mechanical
Max Horz 2=103(LC 8)
Max Uplift 3=-72(LC 8), 2=-239(LC 8)
Max Grav 3=105(LC 1), 2=315(LC 1), 4=83(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18, MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 4-11-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 72 lb uplift at joint 3 and 239 lb uplift at joint 2.



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October 28, 2019

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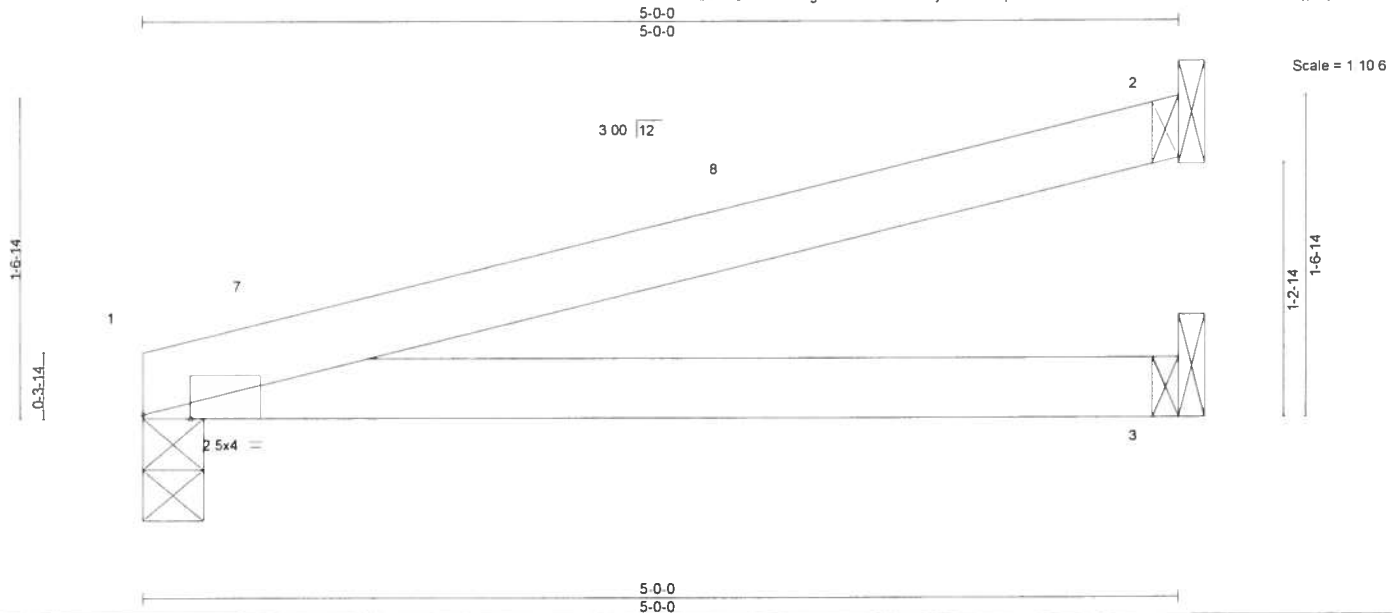
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Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492278
S1204	SJA	Corner Jack	1	1	Job Reference (optional)	

Duley Truss Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 44 2019 Page 1
ID uYSKTxEuWg0DB?A7m3VQ3iyh4in-20kpDFY94ot8zLsChdC?rPVw8IF75xfsWUshIlyOyNn



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.26	Vert(LL)	0.04 3-6 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.05 3-6 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 1 n/a n/a				
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MP							
								Weight: 15 lb		FT = 20%	

LUMBER-

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

BRACING-

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

REACTIONS. (lb/size) 1=183/0-3-8, 2=116/Mechanical, 3=67/Mechanical
Max Horz 1=64(LC 8)
Max Uplift 1=-70(LC 8), 2=-87(LC 8)
Max Grav 1=183(LC 1), 2=116(LC 1), 3=86(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 70 lb uplift at joint 1 and 87 lb uplift at joint 2.



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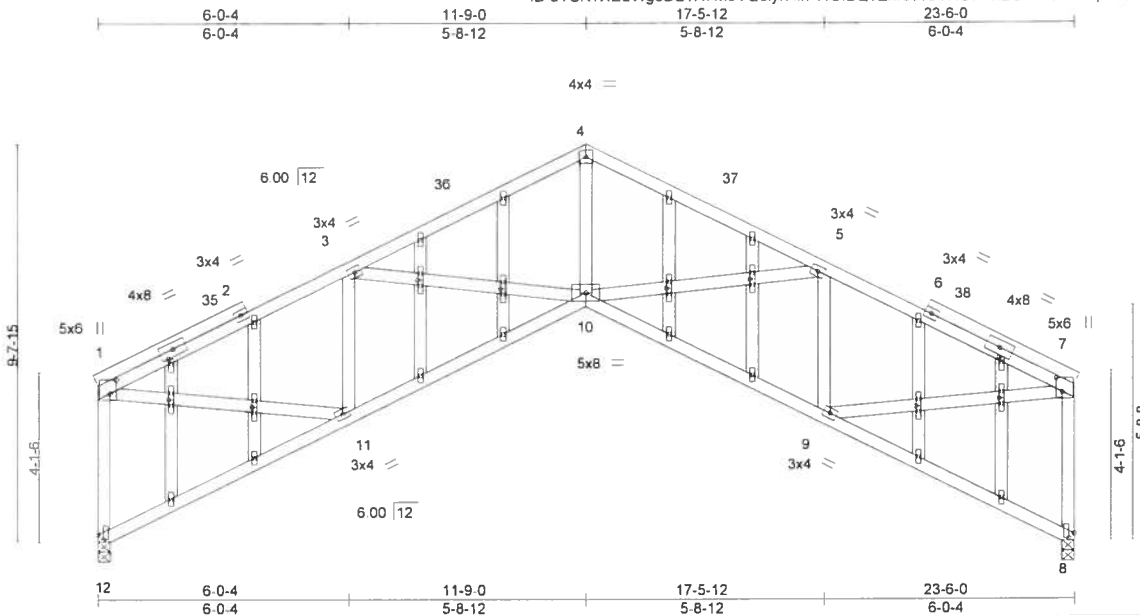


6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492279
S1204	T1	Roof Special Structural Gable	1	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 45 2019 Page 1
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Scale = 1/2\"/>

Plate Offsets (X,Y)-- [1:0-4-0,0-1-12], [7:0-4-0,0-1-12], [8:0-1-6,0-1-8], [12:0-1-6,0-1-8], [13:0-1-9,0-0-12], [16:0-1-9,0-0-12], [19:0-1-8,0-0-12], [21:0-1-8,0-0-12], [22:0-1-5-0-0-12], [26:0-1-9,0-0-12], [29:0-1-9,0-0-12], [31:0-1-8,0-0-12], [32:0-1-5,0-0-12], [34:0-1-8,0-0-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.48	Vert(LL)	0.08 10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.14 9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.43	Horz(CT)	0.16 8	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS					Weight: 187 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-1-7 oc bracing.

REACTIONS. (lb/size) 12=859/0-3-8, 8=859/0-3-8
Max Horz 12=-356(LC 10)
Max Uplift 12=-315(LC 12), 8=-315(LC 12)

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

TOP CHORD 1-12=-816/460, 1-3=-1279/700, 3-4=-1641/899, 4-5=-1641/923, 5-7=-1279/629, 7-8=-816/479
BOT CHORD 11-12=-389/359, 10-11=-779/1408, 9-10=-686/1259
WEBS 4-10=-567/1132, 5-10=-215/446, 5-9=-572/432, 7-9=-542/1100, 3-10=-11/327, 3-11=-572/377, 1-11=-468/1100

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl, GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-9-0, Exterior(2) 11-9-0 to 14-9-0, Interior(1) 14-9-0 to 23-4-4 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
- 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.
- 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.
- Bearing at joint(s) 12, 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 315 lb uplift at joint 12 and 315 lb uplift at joint 8.



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October 28,2019

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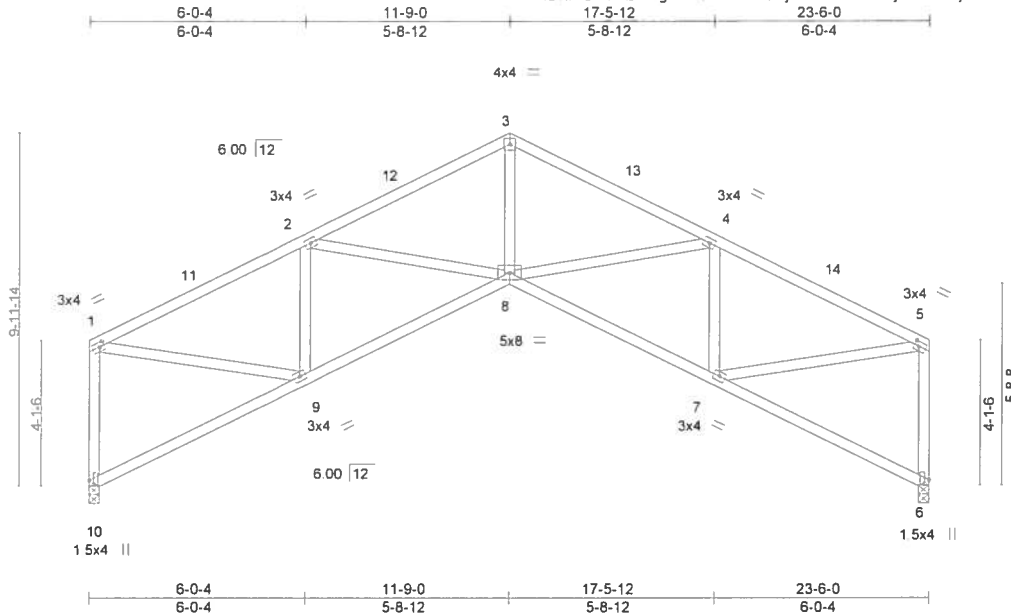
6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492280
S1204	T2	Roof Special	22	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 53 2019 Page 1

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Scale = 1/1613

Plate Offsets (X,Y)-- [1-0-1-8,0-1-8], [5-0-1-8,0-1-8], [6-0-1-6,0-1-8], [10-0-1-6,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	0.07	8	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.40	Vert(CT)	-0.13	8-9	>999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.39	Horz(CT)	0.14	6	n/a		
BCDL 10.0	Code FRC2017/TP12014		Matrix-MS					Weight: 140 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-1 oc bracing.

REACTIONS.

(lb/size) 10=859/0-3-8, 6=859/0-3-8
Max Horz 10=-369(LC 10)
Max Uplift 10=-315(LC 12), 6=-315(LC 12)

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

TOP CHORD 1-10=-816/462, 1-2=-1196/667, 2-3=-1512/848, 3-4=-1512/873, 4-5=-1196/601, 5-6=-816/485
BOT CHORD 9-10=-405/366, 8-9=-734/1316, 7-8=-645/1158
WEBS 3-8=-527/1027, 4-8=-213/421, 4-7=-541/416, 5-7=-496/1011, 2-8=0/304, 2-9=-541/358, 1-9=-423/1011

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph, TCDL=4.2psf, BCDL=6.0psf, h=25ft, B=45ft, L=24ft, eave=4ft, Cat II; Exp C, Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-9-0, Exterior(2) 11-9-0 to 14-9-0, Interior(1) 14-9-0 to 23-4-4 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 gnp DOL=1.60
- 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) 10, 6 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 315 lb uplift at joint 10 and 315 lb uplift at joint 6.



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October 28, 2019

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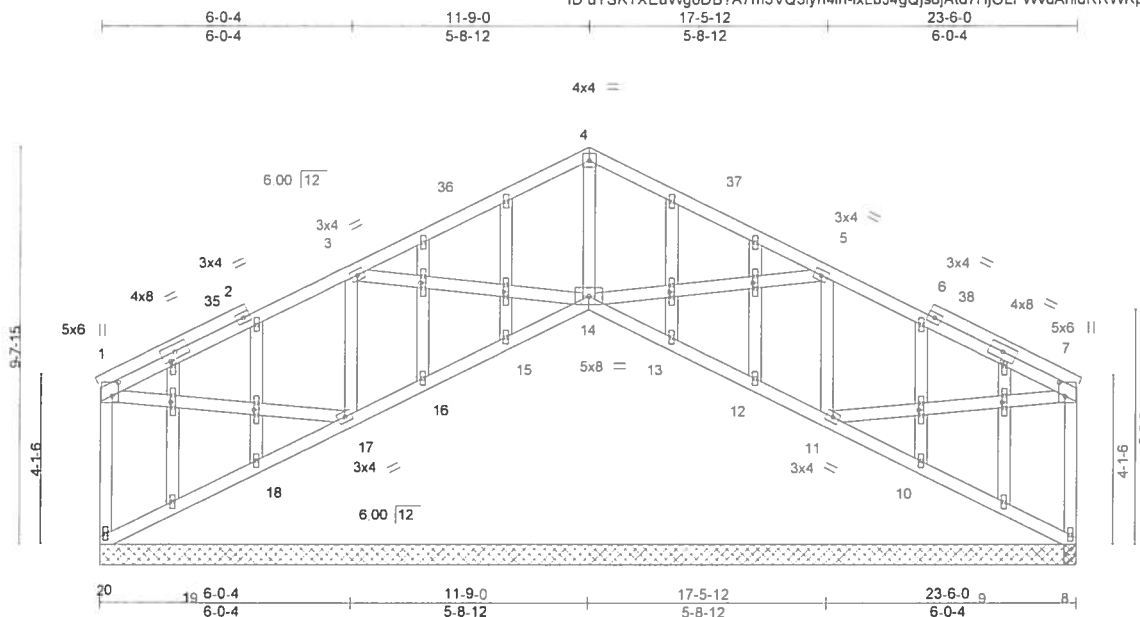
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Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492281
S1204	T3	Roof Special Supported Gable	1	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430.

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 54 2019 Page 1
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Scale = 1/2" = 1'-0"

Plate Offsets (X,Y)-- [1'-0-4-0-0-1-12], [7'-0-4-0-0-1-12], [21'-0-1-9-0-0-12], [23'-0-1-9-0-0-12], [25'-0-1-8-0-0-12], [26'-0-1-8-0-0-12], [27'-0-1-5-0-0-12], [29'-0-1-9-0-0-12], [31'-0-1-9-0-0-12], [32'-0-1-8-0-0-12], [33'-0-1-5-0-0-12], [34'-0-1-8-0-0-12]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	-0.00	20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.08	Vert(CT)	-0.00	20	>999	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.01	8	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-S						Weight: 187 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 23-6-0.
(lb) - Max Horz 20=-356(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 20=-161(LC 8), 8=-125(LC 12), 14=-129(LC 9), 11=-274(LC 12), 17=-274(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 8, 15, 16, 18, 19, 13, 12, 10, 9 except 20=261(LC 18), 14=346(LC 17), 11=407(LC 22), 17=454(LC 17)

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

BOT CHORD 19-20=-381/331, 18-19=-380/321, 17-18=-382/324, 16-17=-238/272, 15-16=-238/273, 14-15=-239/272
WEBS 4-14=-304/205, 5-11=-357/318, 3-17=-357/291

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-9-0, Exterior(2) 11-9-0 to 14-9-0, Interior(1) 14-9-0 to 23-4-4 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
- 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.
- 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 161 lb uplift at joint 20, 125 lb uplift at joint 8, 129 lb uplift at joint 14, 274 lb uplift at joint 11 and 274 lb uplift at joint 17.



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October 28, 2019

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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492282
S1204	T4	Monopitch Supported Gable	2	1		
Job Reference (optional)						

Duley Truss Dunnellon, FL - 34430

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 55 2019 Page 1
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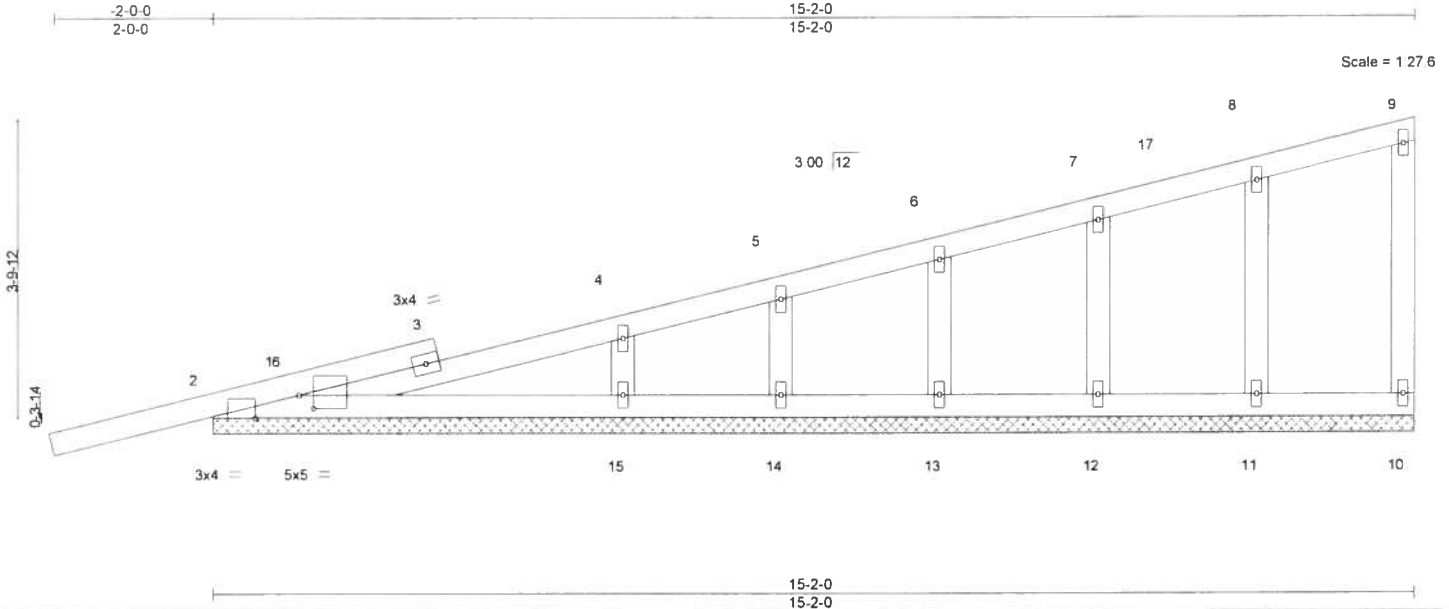


Plate Offsets (X,Y)-- [2 0-2-4,0-2-0], [2 0-6-12,Edge]

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 0.39	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-S						Weight: 69 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 15-2-0.
(lb) - Max Horz 2=215(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 12, 13, 14 except 2=-225(LC 8), 15=-101(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 10, 11, 12, 13, 14 except 2=297(LC 1), 15=336(LC 1)

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

TOP CHORD 2-4=-304/163

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=6.0psf, h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3) -2-0-7 to 0-11-9, Exterior(2) 0-11-9 to 15-0-4 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 1.5x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 12, 13, 14 except (jt=lb) 2=225, 15=101.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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Date:

October 28, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MIT-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314

MiTek

6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492283
S1204	T5	Monopitch	41	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8.240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 56 2019 Page 1
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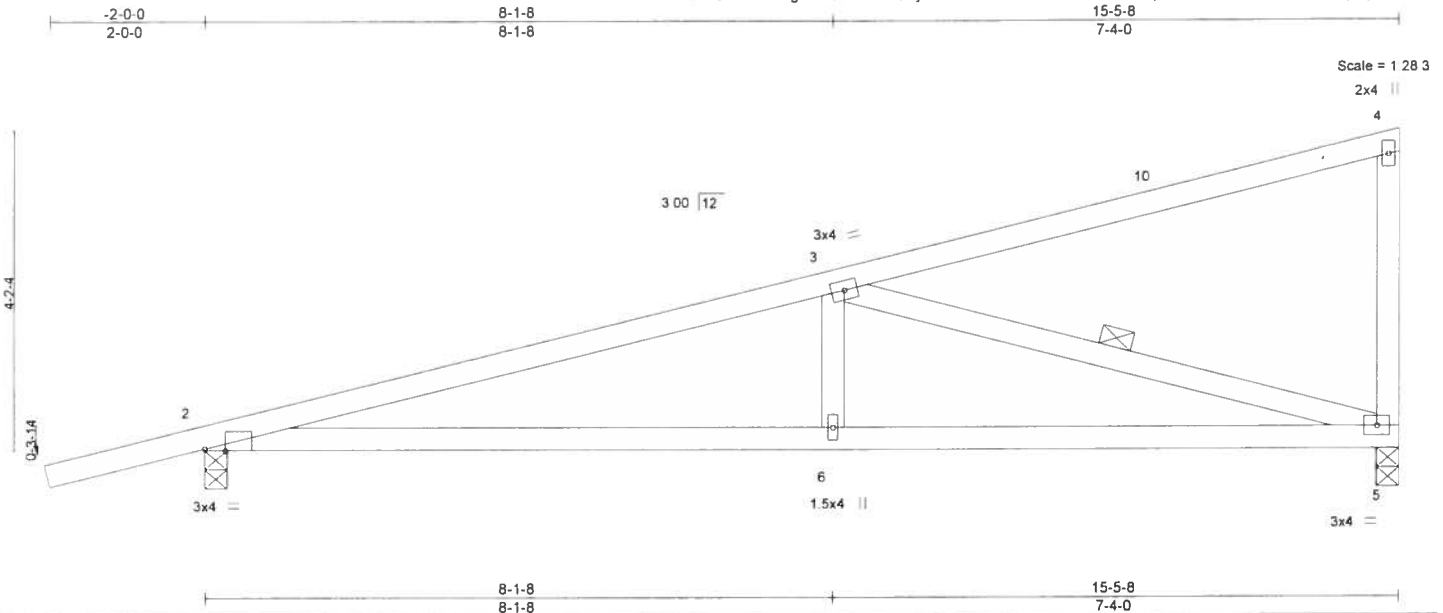


Plate Offsets (X,Y)--		[2 0-3-4,Edge]																	
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.56	Vert(LL)	0.12	6-9	>999	240		MT20		244/190			
TCDL	7.0	Lumber DOL		1.25		BC	0.61	Vert(CT)	-0.22	6-9	>835	180							
BCLL	0.0	Rep Stress Incr		YES		WB	0.40	Horz(CT)	0.03	5	n/a	n/a							
BCDL	10.0	Code FRC2017/TPI2014				Matrix-MS										Weight: 68 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 2D
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (lb/size) 2=684/0-3-8, 5=559/0-3-8
Max Horz 2=237(LC 11)
Max Uplift 2=-381(LC 8), 5=-245(LC 8)

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

TOP CHORD 2-3=-1301/489
BOT CHORD 2-6=-599/1236, 5-6=-599/1236
WEBS 3-6=0/344, 3-5=-1256/562

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4 2psf, BCDL=6 0psf; h=25ft; B=45ft; L=24ft; eave=4ft, Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 15-3-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=381, 5=245



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Date:

October 28, 2019

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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492284
S1204	T7	Monopitch	3	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc. Mon Oct 28 07 24 56 2019 Page 1

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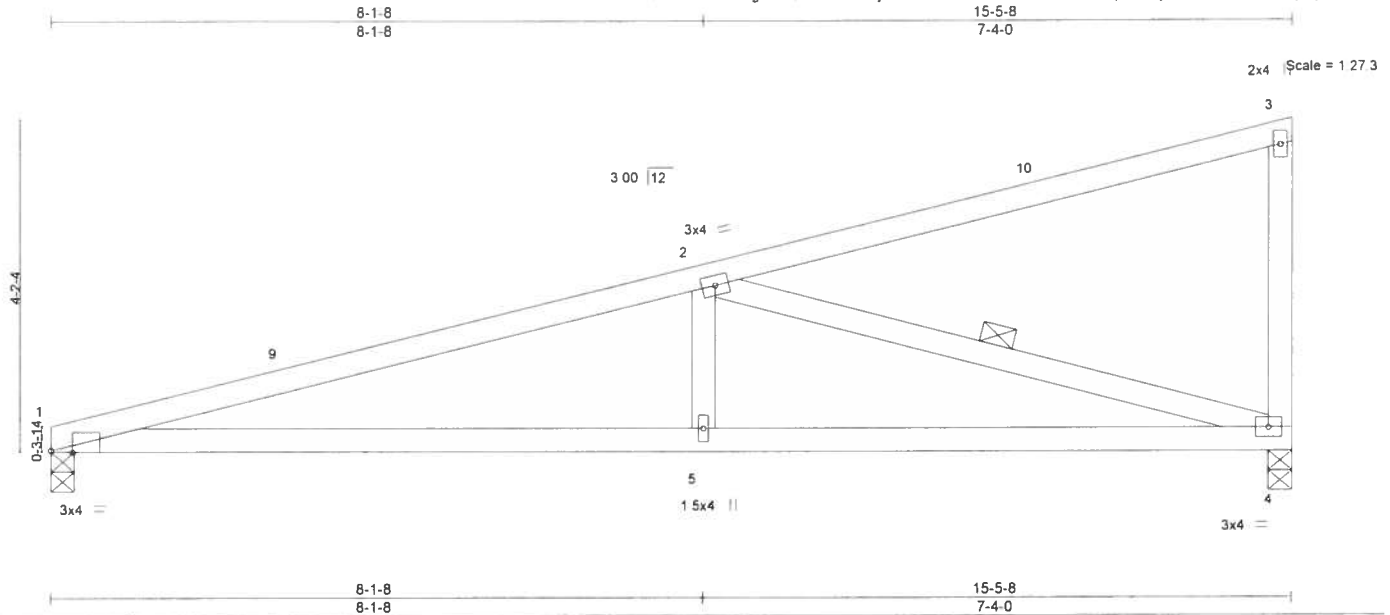


Plate Offsets (X,Y)-- [1 0-3-4,Edge]

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 0.59	Vert(LL)	0.17 5-8	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1 25	BC 0.66	Vert(CT)	-0.25 5-8	>721	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.03 4	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS					Weight: 65 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-8-0 oc bracing.
WEBS 1 Row at midpt 2-4

REACTIONS.

(lb/size) 1=567/0-3-8, 4=567/0-3-8
Max Horz 1=224(LC 11)
Max Uplift 1=-233(LC 8), 4=-255(LC 8)

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

TOP CHORD 1-2=-1339/554
BOT CHORD 1-5=-623/1275, 4-5=-623/1275
WEBS 2-5=0/347, 2-4=-1299/618

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft, Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-3-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=233, 4=255.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492285
S1204	T8	Half Hip Girder	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 57 2019 Page 1
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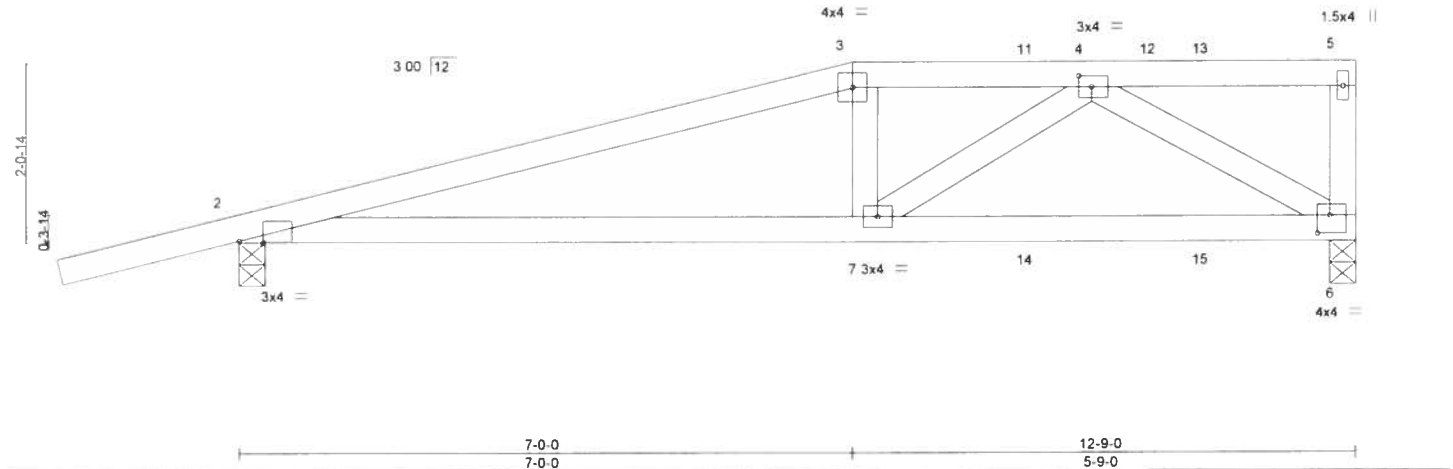


Plate Offsets (X,Y)-- [2-0-3-4, Edge], [4-0-1-12, 0-1-8], [6-0-1-12, 0-2-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.10 7-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.16 7-10	>975	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.39	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS					Weight: 55 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-8 oc bracing.

REACTIONS. (lb/size) 2=855/0-3-8, 6=985/0-3-8
Max Horz 2=116(LC 7)
Max Uplift 2=-454(LC 4), 6=-384(LC 5)

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

TOP CHORD 2-3=-2054/762, 3-4=-1962/757
BOT CHORD 2-7=-726/1956, 6-7=-578/1272
WEBS 4-7=-212/837, 4-6=-1431/658

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=454, 6=384.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down and 286 lb up at 7-0-0, and 104 lb down and 131 lb up at 9-0-12, and 104 lb down and 131 lb up at 11-0-12 on top chord, and 347 lb down and 71 lb up at 7-0-0, and 81 lb down at 9-0-12, and 81 lb down at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-5=-54, 6-8=-20
Concentrated Loads (lb)
Vert: 3=-143(B) 7=-321(B) 11=-104(B) 13=-104(B) 14=-63(B) 15=-63(B)



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492286
S1204	T9	Half Hip	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 58 2019 Page 1
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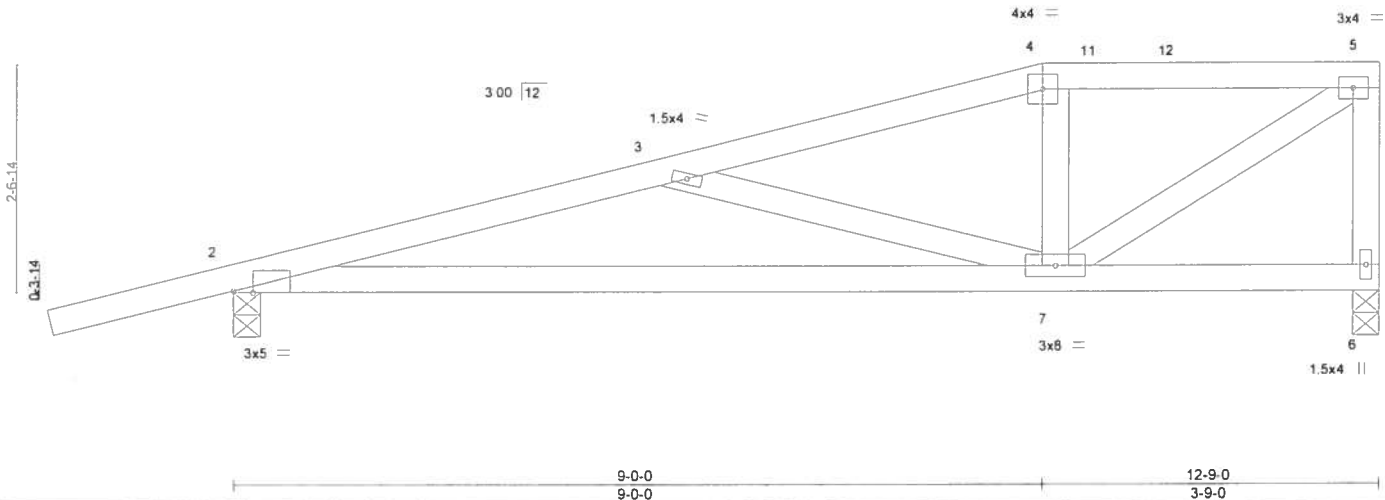
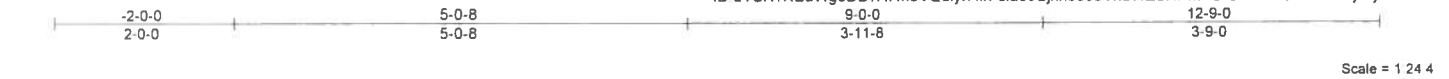


Plate Offsets (X,Y)-- [2 0-2-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.11	7-10	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.56	Vert(CT)	-0.22	7-10	>681	180	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.25	Horz(CT)	0.01	6	n/a	n/a	
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS						
								Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-4 oc bracing.

REACTIONS. (lb/size) 6=457/0-3-8, 2=585/0-3-8
Max Horz 2=146(LC 11)
Max Uplift 6=-182(LC 9), 2=-347(LC 8)

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

TOP CHORD 2-3=-1123/643, 3-4=-606/278, 4-5=-553/293, 5-6=-450/308
BOT CHORD 2-7=-795/1082
WEBS 3-7=-545/430, 5-7=-378/648

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 9-0-0, Exterior(2) 9-0-0 to 12-7-4 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
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=182, 2=347.



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492287
S1204	T10	Half Hip	2	1		

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 46 2019 Page 1

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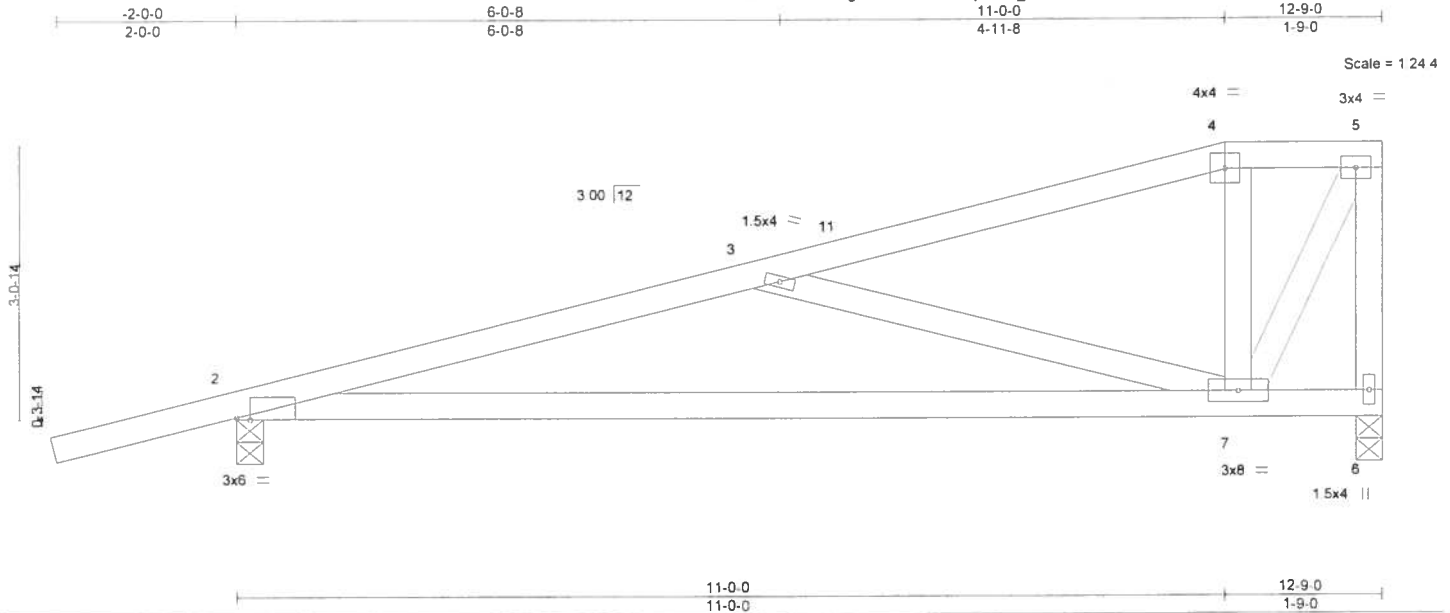


Plate Offsets (X,Y)--		[2 0-1-12, Edge]		11-0-0		11-0-0		12-9-0		1-9-0	
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.67		Vert(LL)	-0.21 7-10	>719	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25	BC 0.84		Vert(CT)	-0.44 7-10	>347	180		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.41		Horz(CT)	0.01 6	n/a	n/a		
BCDL 10.0		Code FRC2017/TPI2014		Matrix-MS						Weight: 61 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 2D
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS. (lb/size) 6=457/0-3-8, 2=585/0-3-8
Max Horz 2=175(LC 11)
Max Uplift 6=-174(LC 8), 2=-342(LC 8)

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

TOP CHORD 2-3=-1025/506, 3-4=-347/119, 4-5=-319/134, 5-6=-576/229

BOT CHORD 2-7=-698/986

WEBS 3-7=-714/527, 4-7=-112/258, 5-7=-266/631

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 11-0-0, Exterior(2) 11-0-0 to 12-7-4 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
- 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 174 lb uplift at joint 6 and 342 lb uplift at joint 2.



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8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 47 2019 Page 1
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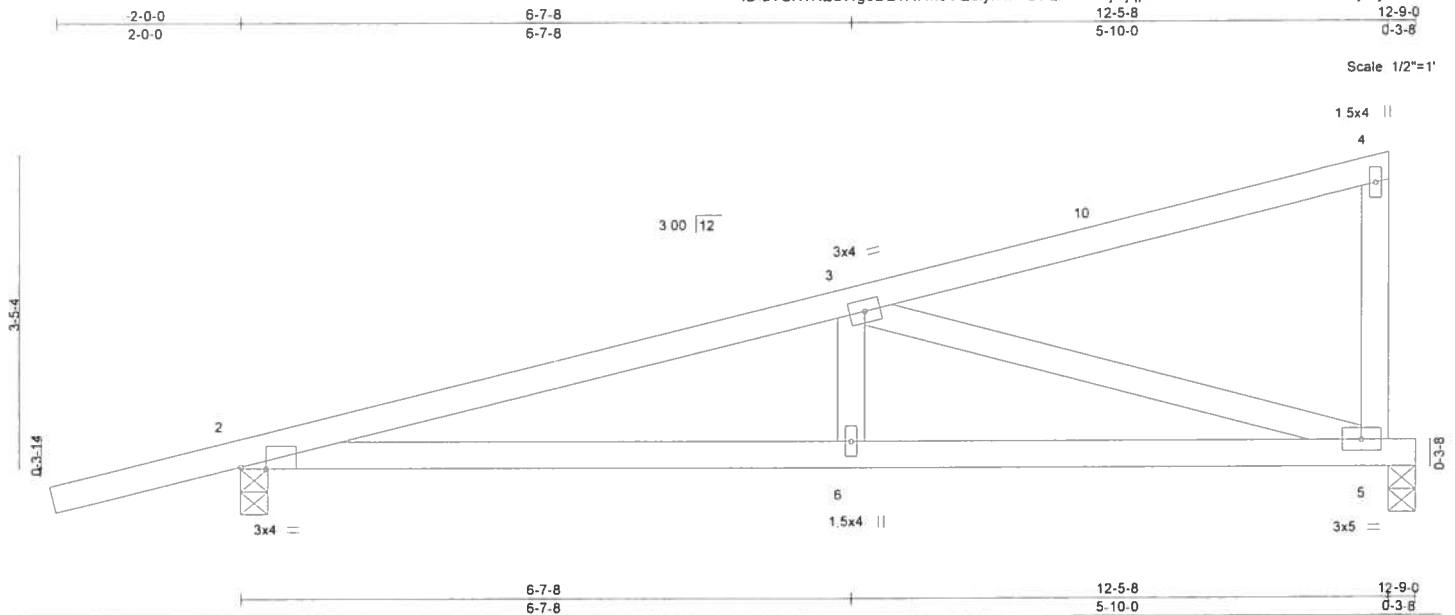


Plate Offsets (X,Y)-- [2 0-3-4,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grp DOL	1.25	TC 0.33	Vert(LL)	-0.05	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.11	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MS						Weight: 56 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No 2D	TOP CHORD	Structural wood sheathing directly applied or 5-10-6 oc purlins, except end verticals.
BOT CHORD	2x4 SP No 2D		
WEBS	2x4 SP No 3	BOT CHORD	Rigid ceiling directly applied or 8-10-1 oc bracing.

REACTIONS. (lb/size) 2=575/0-3-8, 5=446/0-3-8
Max Horz 2=194(LC 11)
Max Uplift 2=-338(LC 8), 5=-193(LC 8)

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

TOP CHORD 2-3=-1001/361
BOT CHORD 2-6=-497/951, 5-6=-497/951
WEBS 3-6=0/272, 3-5=-967/446

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph, TCDF=4 2psf, BCDF=6.0psf, h=25ft, B=45ft, L=24ft; eave=4ft, Cat II; Exp C, Encl., GCPr=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 12-3-12 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 2 and 193 lb uplift at joint 5



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Date:

October 28, 2019

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WARNING: Verify design parameters and READ NOTES ON THIS AND INCLUDED W/TER REFERENCE PAGE IM-774717-10, 10-20-2017 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for the 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



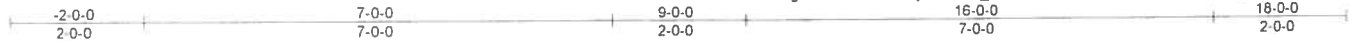
6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492290
S1204	T13	Hip Girder	1	1		
Job Reference (optional)						

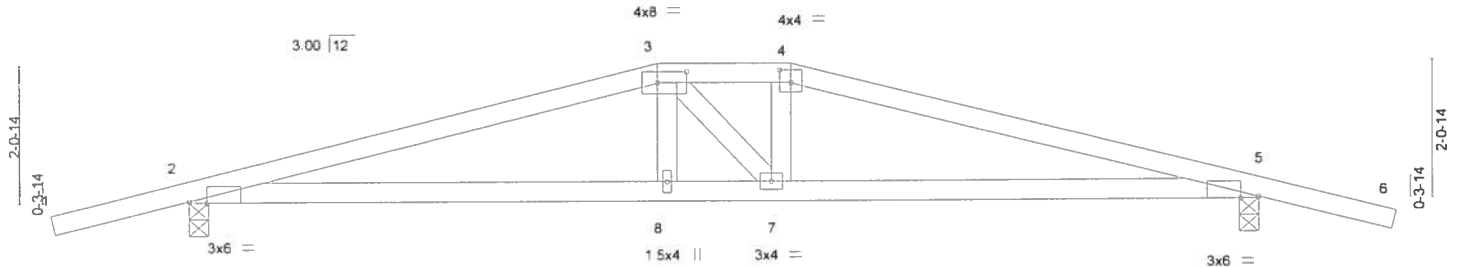
Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 48 2019 Page 1

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Scale = 1 32 8



		7-0-0		9-0-0		16-0-0						
		7-0-0		2-0-0		7-0-0						
Plate Offsets (X,Y)--		[2-0-3-4,Edge], [3-0-5-4,0-2-0]		[4-0-2-0,0-2-4], [5-0-3-4,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 0.90		Vert(LL)	0.17	8	>999	240	MT20	244/190
TCDL 7 0		Lumber DOL	1.25	BC 0.97		Vert(CT)	-0.28	8-11	>677	180		
BCLL 0 0 *		Rep Stress Incr	NO	WB 0.19		Horz(CT)	0.06	5	n/a	n/a		
BCDL 10 0		Code FRC2017/TPI2014		Matrix-MS							Weight: 62 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 5-8-10 oc bracing.

REACTIONS. (lb/size) 2=1166/0-3-8, 5=1166/0-3-8
Max Horz 2=58(LC 21)
Max Uplift 2=-573(LC 4), 5=-573(LC 5)

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

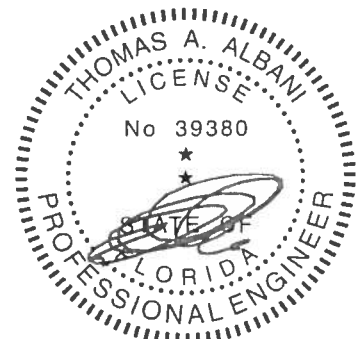
TOP CHORD 2-3=-3261/1276, 3-4=-3171/1265, 4-5=-3263/1276
BOT CHORD 2-8=-1176/3134, 7-8=-1177/3169, 5-7=-1144/3136
WEBS 3-8=-19/491, 4-7=-37/493

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=6.0psf, 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
- 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 573 lb uplift at joint 2 and 573 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down and 286 lb up at 7-0-0, and 190 lb down and 286 lb up at 9-0-0 on top chord, and 347 lb down and 71 lb up at 7-0-0, and 347 lb down and 71 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20
Concentrated Loads (lb)
Vert 3=-143(F) 4=-143(F) 8=-321(F) 7=-321(F)



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Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492291
S1204	T14	Common	1	1	Job Reference (optional)	

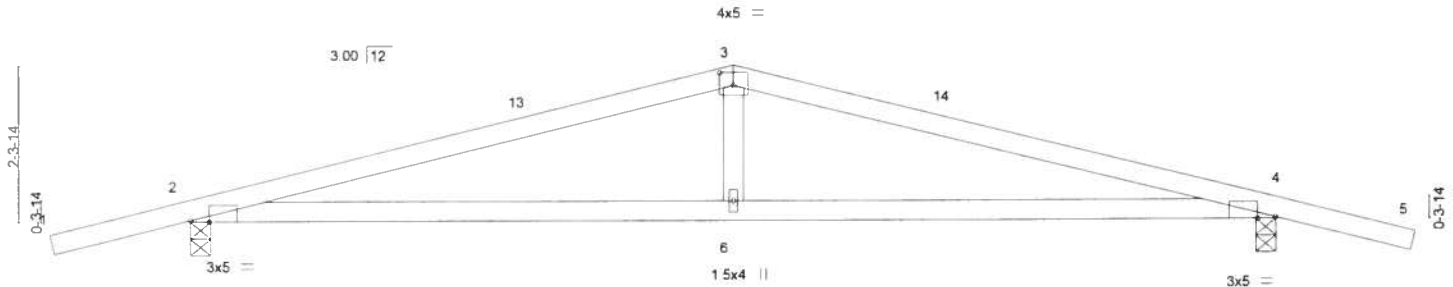
Duley Truss, Dunnellon, FL - 34430.

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 49 2019 Page 1

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Scale 3/8"=1'



		8-0-0				16-0-0			
		8-0-0				8-0-0			
Plate Offsets (X,Y)-- [2-0-3-4,Edge], [3-0-2-8,0-2-4], [4-0-3-4,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 0.66		Vert(LL) -0.12 6-12 >999 240		MT20 244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.65		Vert(CT) -0.23 6-12 >841 180			
BCLL	0.0 *	Rep Stress Incr YES		WB 0.14		Horz(CT) 0.02 4 n/a n/a			
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS				Weight 57 lb FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-5 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-11-2 oc bracing.

REACTIONS. (lb/size) 2=702/0-3-8, 4=702/0-3-8
Max Horz 2=62(LC 8)
Max Uplift 2=-362(LC 8), 4=-362(LC 9)

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

TOP CHORD 2-3=-1375/557, 3-4=-1375/557
BOT CHORD 2-6=-442/1294, 4-6=-442/1294
WEBS 3-6=0/356

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4 2psf, BCDL=6 0psf, h=25ft; B=45ft; L=24ft; eave=4ft, Cat. II; Exp C; Encl., GCpi=0 18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 8-0-0, Exterior(2) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 18-0-7 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
- 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 362 lb uplift at joint 2 and 362 lb uplift at joint 4.



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October 28,2019

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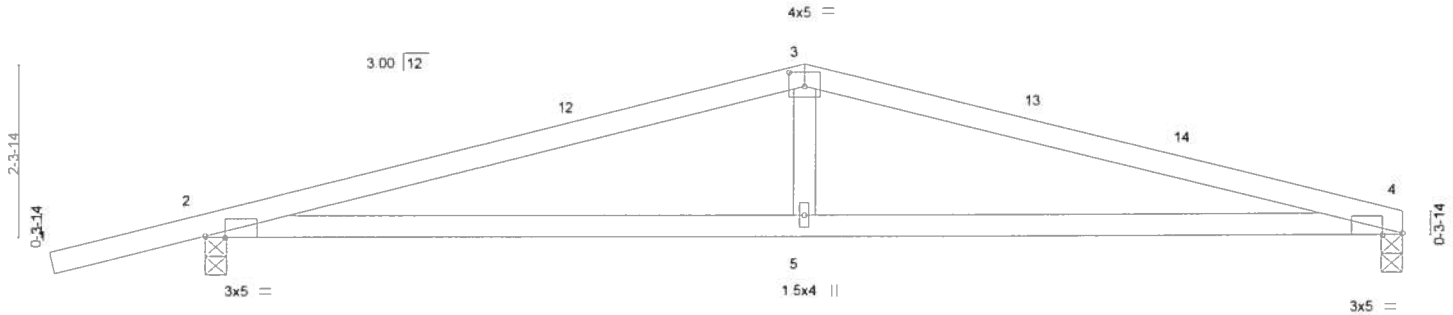
Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492292
S1204	T15	Common	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 49 2019 Page 1
ID uYSKTXEuWg0DB?A7m3VQ3iyh4in-PzXiGNcivKVR36i9UAoAYSCgkmr3m9mbfI22_wyOyNi



Scale = 1/2" = 1'-0"



<div><div></div><div>8-0-0</div><div>8-0-0</div><div>16-0-0</div><div>8-0-0</div></div>									
Plate Offsets (X,Y)-- [2-0-3-4,Edge], [3-0-2-8,0-2-4], [4-0-3-4 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 0.72		Vert(LL) 0.18 5-8 >999 240		MT20 244/190	
TCDL	7.0	Lumber DOL 1.25		BC 0.75		Vert(CT) -0.26 5-8 >725 180			
BCLL	0.0	Rep Stress Incr YES		WB 0.14		Horz(CT) 0.03 4 n/a n/a			
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MS				Weight: 54 lb FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins
BOT CHORD Rigid ceiling directly applied or 7-9-6 oc bracing.

REACTIONS. (lb/size) 4=585/0-3-8, 2=709/0-3-8
Max Horz 2=75(LC 8)
Max Uplift 4=-214(LC 9), 2=-364(LC 8)

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

TOP CHORD 2-3=-1414/647, 3-4=-1404/657
BOT CHORD 2-5=-564/1332, 4-5=-564/1332
WEBS 3-5=0/359

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10, Vult=140mph (3-second gust) Vasd=108mph; TCDL=4 2psf; BCDL=6 0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II, Exp C, Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 8-0-0, Exterior(2) 8-0-0 to 11-0-0, Interior(1) 11-0-0 to 16-0-0 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
- 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 214 lb uplift at joint 4 and 364 lb uplift at joint 2



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6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES.	T18492293
S1204	T16	Hip Girder	1	1		

Duley Truss, Dunnellon, FL - 34430.

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 50 2019 Page 1

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Job Reference (optional)



Scale = 1/29 8

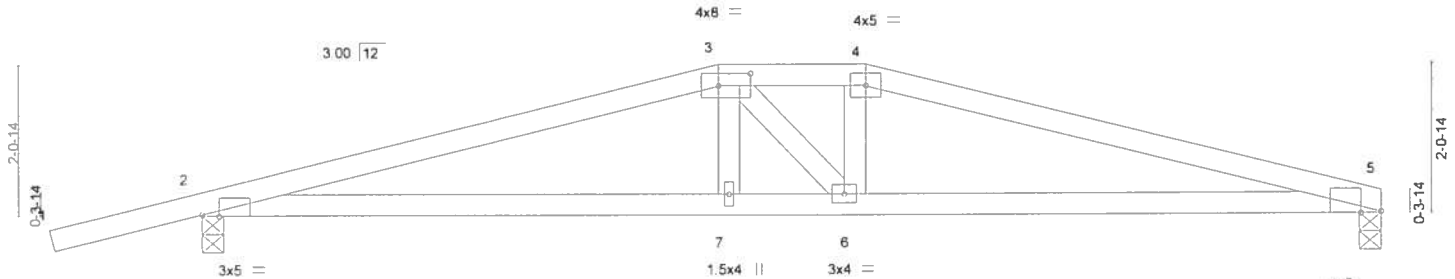


Plate Offsets (X,Y) -		[2.0-2-12,Edge], [3.0-5-4,0-2-0], [5.0-3-4,Edge]
LOADING (psf)	SPACING-	2-0-0
TCLL 20.0	Plate Grip DOL	1.25
TCDL 7.0	Lumber DOL	1.25
BCLL 0.0 *	Rep Stress Incr	NO
BCDL 10.0	Code	FRC2017/TPI2014
	CSI.	
	TC	0.98
	BC	0.81
	WB	0.19
	Matrix-MS	
	DEFL.	
	in (loc)	l/defl L/d
	Vert(LL)	0.19 6-10 >999 240
	Vert(CT)	-0.30 6-10 >644 180
	Horz(CT)	0.06 5 n/a n/a
	PLATES	GRIP
	MT20	244/190
	Weight: 59 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 1
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 5-5-15 oc bracing

REACTIONS. (lb/size) 5=1049/0-3-8, 2=1173/0-3-8
Max Horz 2=71(LC 21)
Max Uplift 5=-425(LC 5), 2=-575(LC 4)

FORCES. (lb) - Max Comp /Max Ten - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3287/1309, 3-4=-3224/1330, 4-5=-3316/1341
BOT CHORD 2-7=-1212/3160, 6-7=-1212/3193, 5-6=-1246/3189
WEBS 3-7=-14/487, 4-6=-36/492

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf; BCDL=6.0psf; 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
- 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 425 lb uplift at joint 5 and 575 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 190 lb down and 286 lb up at 7-0-0, and 190 lb down and 286 lb up at 9-0-0 on top chord, and 347 lb down and 71 lb up at 7-0-0, and 347 lb down and 71 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced) Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 4-5=-54, 8-11=-20
Concentrated Loads (lb)
Vert: 3=-143(B) 4=-143(B) 7=-321(B) 6=-321(B)



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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492294
S1204	T17	Common	2	1	Job Reference (optional)	

Duley Truss, Dunnellon, FL - 34430.

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 51 2019 Page 1
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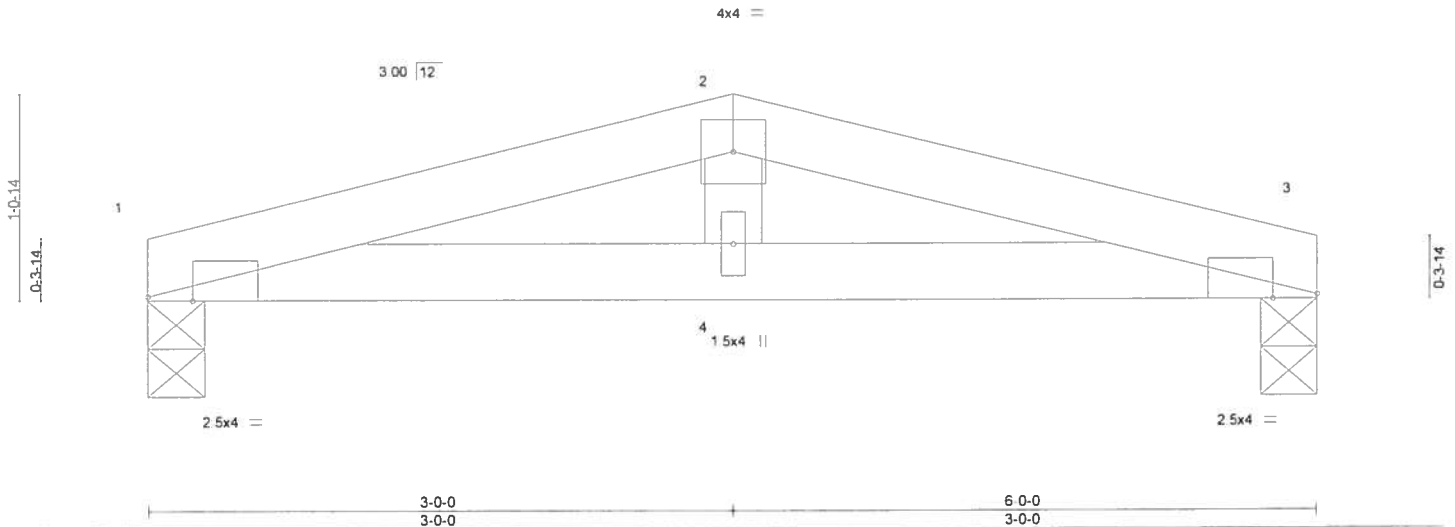


Plate Offsets (X,Y)-- [1'-0"-2'-12,Edge], [3'-0"-2'-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	-0.01	4	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.17	Vert(CT)	-0.01	4	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FRC2017/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No 2D
BOT CHORD 2x4 SP No 2D
WEBS 2x4 SP No 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-7 oc bracing

REACTIONS. (lb/size) 1=222/0-3-8, 3=222/0-3-8
Max Horz 1=14(LC 11)
Max Uplift 1=-81(LC 12), 3=-81(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-477/446, 2-3=-477/446
BOT CHORD 1-4=-387/455, 3-4=-387/455

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCDL=4.2psf, BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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 81 lb uplift at joint 1 and 81 lb uplift at joint 3.



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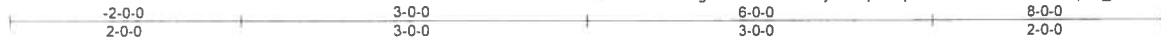
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Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	KOLACIA RES	T18492295
S1204	T18	Common	2	1	Job Reference (optional)	

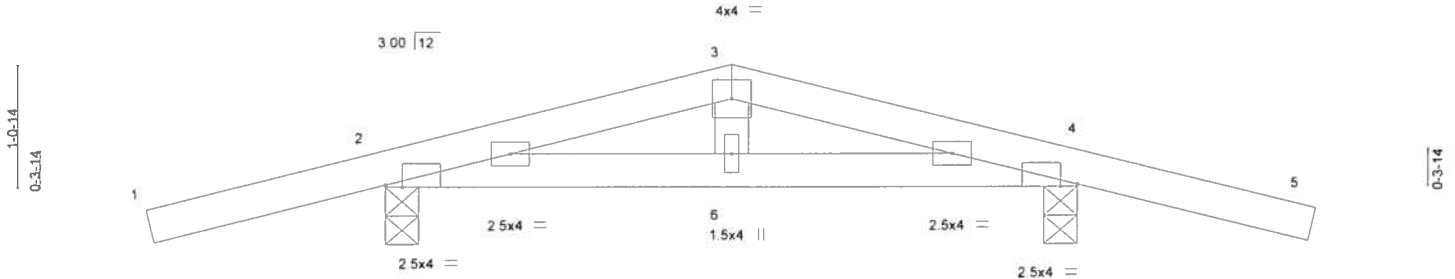
Duley Truss, Dunnellon, FL - 34430,

8 240 s Jul 14 2019 MiTek Industries, Inc Mon Oct 28 07 24 52 2019 Page 1

ID uYSKTxEuWg0DB7A7m3VQ3iyh4in-pYDquOfABFu0waUk9IMIA5qHB_1WzY11LjoibFyOyNf



Scale = 1/190



				3-0-0		6-0-0			
				3-0-0		3-0-0			
Plate Offsets (X,Y)-- [2 0-1-12,Edge] [4 0-1-12,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)	-0.01 12 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25		BC	0.12	Vert(CT)	-0.01 6 >999 180		
BCLL	0.0 *	Rep Stress Incr YES		WB	0.04	Horz(CT)	0.00 4 n/a n/a		
BCDL	10.0	Code FRC2017/TPI2014		Matrix-MP				Weight: 25 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(lb/size) 2=332/0-3-8, 4=332/0-3-8
Max Horz 2=39(LC 8)
Max Uplift 2=-238(LC 8), 4=-238(LC 9)

FORCES.

(lb) - Max. Comp /Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-384/129, 3-4=-385/130
BOT CHORD 2-6=-42/365, 4-6=-42/365

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=108mph; TCCL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) -2-0-7 to 1-1-0, Interior(1) 1-1-0 to 3-0-0, Exterior(2) 3-0-0 to 6-0-0, Interior(1) 6-0-0 to 8-0-0 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
- 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 238 lb uplift at joint 2 and 238 lb uplift at joint 4.



Thomas A. Albani PE No 39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

October 28, 2019

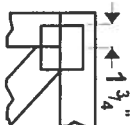
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

MiTek

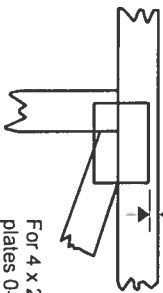
6904 Parke East Blvd
Tampa, FL 33610

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- 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

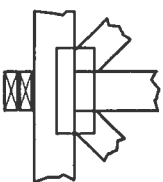
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



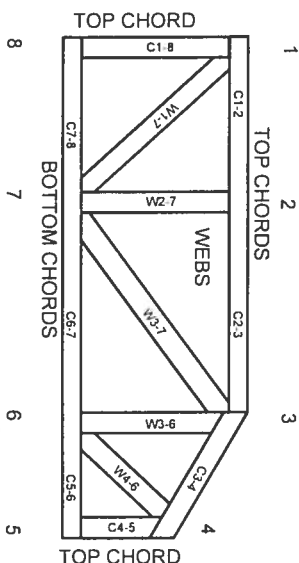
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet, Mill-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: New Project Harvey Builders Kolacia
 Street: 554 SW Lime Way
 City, State, Zip: Ft White, FL,
 Owner: Kolacia
 Design Location: FL, Gainesville

Builder Name: Harvey Builders
 Permit Office:
 Permit Number:
 Jurisdiction:
 County: Columbia (Florida Climate Zone 2)

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	3
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft ²)	2239
Conditioned floor area below grade (ft ²)	0
7. Windows (325.0 sqft.)	Description Area
a. U-Factor:	Dbl, U=0.33 325.00 ft ²
SHGC:	SHGC=0.22
b. U-Factor:	N/A ft ²
SHGC:	
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
Area Weighted Average Overhang Depth:	8.492 ft.
Area Weighted Average SHGC:	0.220
8. Floor Types (2239.0 sqft.)	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2239.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types (1962.0 sqft.)	Insulation Area
a. Frame - Wood, Exterior	R=13.0 1962.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types (2239.0 sqft.)	Insulation Area
a. Under Attic (Vented)	R=30.0 2239.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
11. Ducts	R ft ²
a. Sup: Attic, Ret: Attic, AH: Main	6 447.8
12. Cooling systems	kBtu/hr Efficiency
a. Central Unit	40.0 SEER:14.00
13. Heating systems	kBtu/hr Efficiency
a. Electric Heat Pump	41.8 HSPF:8.20
14. Hot water systems	Cap: 1 gallons EF: 0.860
a. Propane Tankless	
b. Conservation features	None
15. Credits	Pstat

Glass/Floor Area: 0.145

Total Proposed Modified Loads: 60.01

Total Baseline Loads: 63.39

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

SUNCOAST INSULATORS
 825 NW 253rd Terrace

PREPARED BY: Newberry, FL 32669

DATE: (352) 472-8595

Fax (352) 472-2633

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT:

DATE:

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL:

DATE:

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	New Project Harvey Builders K	Bedrooms:	3	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2239	Lot #	
Owner Name:	Kolacia	Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Harvey Builders	Rotate Angle:	0	Street:	554 SW Lime Way
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	Ft White , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp		Int Design Temp		Heating	Design	Daily Temp
			97.5 %	2.5 %	Winter	Summer	Degree Days	Moisture	Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2239	20151

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2239	20151	Yes	3	3	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area		Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	Main	200 ft	0	2239 ft²	----	0	0	1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Gable or shed	Metal	2425 ft²	466 ft²	Medium	N	0.96	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	150	2239 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	2239 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
___	1	E	Exterior	Frame - Wood	Main	13	31		9		279.0 ft²		0.23	0.75	0
___	2	E	Exterior	Frame - Wood	Main	13	23		9		207.0 ft²		0.23	0.75	0
___	3	S	Exterior	Frame - Wood	Main	13	55		9		495.0 ft²		0.23	0.75	0
___	4	W	Exterior	Frame - Wood	Main	13	54		9		486.0 ft²		0.23	0.75	0
___	5	N	Exterior	Frame - Wood	Main	13	55		9		495.0 ft²		0.23	0.75	0

DOORS

✓	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
___	1	E	Insulated	Main	None	.46	3		6	8	20 ft²
___	2	S	Insulated	Main	None	.46	3		6	8	20 ft²
___	3	N	Insulated	Main	None	.46	2	6	6	8	16.7 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
___	1	E	1	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	2	E	2	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	9 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	3	S	3	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	4	W	4	Vinyl	Double (Clear)	Yes	0.33	0.22	N	80.0 ft²	12 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	5	W	4	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	12 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	6	W	4	Vinyl	Double (Clear)	Yes	0.33	0.22	N	80.0 ft²	12 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
___	7	N	5	Vinyl	Double (Clear)	Yes	0.33	0.22	N	45.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	1679.3	92.19	173.37	.1128	5

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
___	1	Electric Heat Pump/	None	HSPF:8.2	41 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
___	1	Central Unit/	None	SEER: 14	40 kBtu/hr	1200 cfm	0.75	1	sys#1

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
✓	1	Propane	Tankless	Exterior	0.86	1 gal	60 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

DUCTS

✓	#	— Supply — Location	R-Value	Area	— Return — Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
✓	1	Attic	6	447.8 ft²	Attic	111.95 f	Default Leakage	Main	(Default)	c(Default) c			1	1

TEMPERATURES

Programable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Heating	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec
Venting	<input checked="" type="checkbox"/>	Jan	<input checked="" type="checkbox"/>	Feb	<input checked="" type="checkbox"/>	Mar	<input type="checkbox"/>	Apr	<input type="checkbox"/>	May	<input checked="" type="checkbox"/>	Jun	<input checked="" type="checkbox"/>	Jul	<input checked="" type="checkbox"/>	Aug	<input checked="" type="checkbox"/>	Sep	<input type="checkbox"/>	Oct	<input type="checkbox"/>	Nov	<input checked="" type="checkbox"/>	Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

MASS

Mass Type	Area	Thickness	Furniture Fraction	Space
Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.3	Main

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

- ☐ *This checklist*
- ☐ *A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO for the Performance Method:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☐ *A completed Envelope Leakage Test Report (usually one page)*
- ☐ *If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)*

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 95****The lower the Energy Performance Index, the more efficient the home.**

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts R <u>6.0</u>
4. Number of bedrooms	4. <u>3</u>	c) AHU location <u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system: Capacity <u>40.0</u>
6. Conditioned floor area (sq. ft.)	6. <u>2239</u>	a) Split system SEER <u> </u>
7. Windows, type and area		b) Single package SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.330</u>	c) Ground/water source SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.220</u>	d) Room unit/PTAC EER <u> </u>
c) Area	7c. <u>325.0</u>	e) Other <u>14.0</u>
8. Skylights		14. Heating system: Capacity <u>41.0</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other <u>8.20</u>
10. Wall type and insulation:		15. Water heating system
A. Exterior:		a) Electric resistance EF <u> </u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG EF <u>0.86</u>
B. Adjacent:		d) Solar system with tank EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other <u> </u>
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)
b) Single assembly	11b. <u> </u>	a) Ceiling fans <u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation <u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan <u>No</u>
		d) Multizone cooling credit <u> </u>
		e) Multizone heating credit <u> </u>
		f) Programmable thermostat <u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be completed based on installed code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 554 SW Lime Way City/FL Zip: Ft White, FL

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

<div> <div>Project Name: New Project Harvey Builders Kolacia</div> <div>Street: 554 SW Lime Way</div> <div>City, State, Zip: Ft White , FL ,</div> <div>Owner: Kolacia</div> <div>Design Location: FL, Gainesville</div> </div> <div> <div>Builder Name: Harvey Builders</div> <div>Permit Office:</div> <div>Permit Number:</div> <div>Jurisdiction:</div> </div>			CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Florida Building Code, Energy Conservation, 6th Edition (2017)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 554 SW Lime Way
Ft White , FL ,

Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.

SECTION R401 GENERAL

- ☐ **R401.3 Energy Performance Level (EPL) display card (Mandatory)** The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
- ☐ **R402.4 Air leakage (Mandatory).** The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.
- Exception:** Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.
- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
- Exception:** Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.
- During testing:
1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
 2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
 3. Interior doors, if installed at the time of the test, shall be open.
 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
 5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
 6. Supply and return registers, if installed at the time of the test, shall be fully open.
- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
- Exception:** Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R402.4.4 Rooms containing fuel-burning appliances.** In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

- ☐ **R402.4.5 Recessed lighting.** Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls.

- ☐ **R403.1.1 Thermostat provision (Mandatory).** At least one thermostat shall be provided for each separate heating and cooling system.

- ☐ **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.

- ☐ **R403.3.2 Sealing (Mandatory)** All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

- ☐ **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.

- ☐ **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:

1. Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
2. Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test.

Exceptions:

1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
2. Duct testing is not mandatory for buildings complying by Section 405 of this code.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.

- ☐ **R403.3.5 Building cavities (Mandatory).** Building framing cavities shall not be used as ducts or plenums.

- ☐ **R403.4 Mechanical system piping insulation (Mandatory).** Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

- ☐ **R403.4.1 Protection of piping insulation.** Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

- ☐ **R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory)** Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

- ☐ **R403.5.1.1 Circulation systems.** Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

- ☐ **R403.5.1.2 Heat trace systems.** Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/4 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment (Mandatory).**
- ☐ **R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

**TABLE R403.6.1
WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY**

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVi Standard 916

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.7.1.1 Cooling equipment capacity.** Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRJ total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
2. When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- ☐ **R403.7.1.2.1 Heat pumps.** Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.

- ☐ **R403.7.1.2.2 Electric resistance furnaces.** Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

- ☐ **R403.7.1.2.3 Fossil fuel heating equipment.** The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

- ☐ **R403.7.1.3 Extra capacity required for special occasions.** Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:

1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
2. A variable capacity system sized for optimum performance during base load periods is utilized.

- ☐ **R403.8 Systems serving multiple dwelling units (Mandatory).** Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.

- ☐ **R403.9 Snow melt and ice system controls (Mandatory)** Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).

- ☐ **R403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.

- ☐ **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

- ☐ **R403.10.2 Time switches.** Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar- and waste-heat-recovery pool heating systems.
3. Where pumps are powered exclusively from on-site renewable generation.

- ☐ **R403.10.3 Covers.** Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required.

- ☐ **R403.10.4 Gas- and oil-fired pool and spa heaters.** All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.



R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.



R403.11 Portable spas (Mandatory) The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS



R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.

Exception: Low-voltage lighting.

R404.1.1 Lighting equipment (Mandatory) Fuel gas lighting systems shall not have continuously burning pilot lights.

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:

Permit #:

Job Information

Builder: Harvey Builders

Community:

Lot: NA

Address: 554 SW Lime Way

City: Ft White

State: FL

Zip:

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

☐ **PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{20151}{\text{ACH}(50)} =$

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

☐ Retrieved from architectural plans

☒ Code software calculated

☐ Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes* or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____