☑ Need Bathroom site plan Distances ☑ Roofer Signature

SCANNED

Columbia County Remodel Permit Application

For Office Use Only Application # 43806 Date Received 10/15/19 By LM Permit # 38823

Zoning Official JMD Date 10-15-19 Flood Zone X Land Use RVLD Zoning RSF-1

FEMA Map # N/A Elevation N/A MFE 1' Above River N/A Plans Examiner J.C. Date 10-24-19

Comments Floor 1' above Rd. Front 25' Sides 10' Rear 15'

☐ NOC ☑ Deed or PA ☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor

☐ F W Comp. letter ☐ Owner Builder Disclosure Statement ☐ Land Owner Affidavit ☐ Ellisville Water ☑ App Fee Paid

☑ Site Plan ☑ Env. Health Approval 19-0766 ☑ Sub VF Form need w/c on Wolfe & Roofing C.A. Signature

Applicant (Who will sign/pickup the permit) Donald Williams Phone 386-623-2484 Fax NA

Address 541 SW Airpark Glen, Lake City, FL 32025

Owners Name Doug Ritchey Phone 304-910-9600

911 Address 1875 Packard St,

Contractors Name Donny Williams Construction LLC Phone 386-623-2484

Address 541 SW Airpark Glen, Lake City, FL 32025

Contractor Email dew2484@Aol.Com ***Include to get updates on this job.

Fee Simple Owner Name & Address Doug & Drema Ritchey - 1875 Packard St, Lake City, FL

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Nicholas Geiser

Mortgage Lenders Name & Address NA

Circle the correct power company ☐ FL Power & Light ☐ Clay Elec. ☐ Suwannee Valley Elec. ☐ Duke Energy

Property ID Number 19-4S-17-08533-001 Estimated Construction Cost $30,000.00

Subdivision Name Lot Block Unit Phase

Driving Directions from a Major Road S on SR ~~441~~ 47 2.5 miles then left on ~~Patterson~~ Packard St to 1875 - (first house on left)

Construction of Home Addition Commercial OR ✓ Residential

Type of Structure (House; Mobile Home; Garage; Exxon) Addition to home

Use/Occupancy of the building now Residential Is this changing NO

If Yes, Explain, Proposed Use/Occupancy

Is the building Fire Sprinkled? NO If Yes, blueprints included ✓ Or Explain

Entrance Changes (Ingress/Egress) NO If Yes, Explain

Zoning Applications applied for (Site & Development Plan, Special Exception, etc.) NA

Columbia County Building Permit Application

CODE: Florida Building Code 2017 6th Edition and the 2014 National Electrical Code.

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless pursued in good faith or a permit has been issued.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within **180** days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO CONTRACTOR AND AGENT: ***YOU ARE HEREBY NOTIFIED*** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I CERTIFY THAT ALL THE FOREGOING INFORMATION IS ACCURATE AND THAT ALL WORK WILL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LAWS REGULATING CONSTRUCTION AND ZONING.

NOTICE TO OWNER: There are some properties that may have deed restrictions recorded upon them. These restrictions may limit or prohibit the work applied for in your building permit. You must verify if your property is encumbered by any restrictions or face possible litigation and or fines.

Doug Ritchey — **Print Owners Name**

Doug Ritchey — **Owners Signature**

****Property owners must sign here before any permit will be issued.**

****If this is an Owner Builder Permit Application then, ONLY the owner can sign the building permit when it is issued.**

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

David E Wells — **Contractor's Signature**

Contractor's License Number CGC 004697
Columbia County Competency Card Number 547

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 14 **day of** October **20** 15.

Personally known ✓ **or Produced Identification** _____

_____ **SEAL:**

State of Florida Notary Signature (For the Contractor)

APPLICATION/PERMIT # ________________ JOB NAME ________________

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the general contractors permit.

NOTE: It shall be the responsibility of the general contractor to make sure that all of the subcontractors are licensed with the Columbia County Building Department.

Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

NOTE: If this should change prior to completion of the project, it is your responsibility to have a corrected form submitted to our office, before that work has begun.

Violations will result in stop work orders and/or fines.

ELECTRICAL ☐ CC# ____	Print Name ____ Company Name: ____ License #: ____	Signature ____ Phone #: ____	Need
MECHANICAL/ A/C ☐ CC# ____	Print Name ____ Company Name: ____ License #: ____	Signature ____ Phone #: ____	Need
PLUMBING/ GAS ☐ CC# 1081	Print Name Scott White Company Name White Plumbing License # CFC051[illegible]	Signature [signature] Phone #: 386-935-0666	Need W/C
ROOFING ☑ CC# 21	Print Name Donny Williams Company Name: License #: CGC004692	Signature [signature] Phone #: 386-755-0764	Need
SHEET METAL ☐ CC# ____	Print Name ____ Company Name: ____ License #: ____	Signature ____ Phone #: ____	Need
FIRE SYSTEM/ SPRINKLER ☐ CC# ____	Print Name ____ Company Name: ____ License#: ____	Signature ____ Phone #: ____	Need
SOLAR ☐ CC# ____	Print Name ____ Company Name: ____ License #: ____	Signature ____ Phone #: ____	Need
STATE SPECIALTY ☐ CC# ____	Print Name ____ Company Name: ____ License #: ____	Signature ____ Phone #: ____	Need

Ref: F.S. 440.103; ORD. 2016-30

APPLICATION NUMBER _____ CONTRACTOR Danny Williams Const PHONE [illegible]

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is REQUIRED that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.

ELECTRICAL ✓ 380	Print Name Donnie Davis	Signature Donnie Davis
	License #: EC 0002306	Phone #: 386-623-0499
MECHANICAL/ A/C	Print Name	Signature
	License #:	Phone #:
PLUMBING/ GAS	Print Name	Signature
	License #:	Phone #:
ROOFING	Print Name	Signature
	License #:	Phone #:
SHEET METAL	Print Name	Signature
	License #:	Phone #:
FIRE SYSTEM/ SPRINKLER	Print Name	Signature
	License#:	Phone #:
SOLAR	Print Name	Signature
	License #:	Phone #:

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL	001450	Wade Heitzman	
PLASTER	001450	Wade Heitzman	
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS	2218	Carl Bullard	
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR	2218	Carl Bullard	
METAL BLDG ERECTOR			

F. S. 440.103 **Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

JOB NAME Donny Williams Construction

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

Columbia County issues combination permits. One permit will cover all trades doing work at the permitted site. It is [illegible] have records of the subcontractors who actually did the trade specific work under the general [illegible]

NOTE: [illegible] the responsibility of the general contractor to make sure that all of the subcontractors are licensed with [illegible] Columbia County Building Department.
Use website to confirm licenses: http://www.columbiacountyfla.com/PermitSearch/ContractorSearch.aspx

NOTE: [illegible] change prior to completion of the project, it is your responsibility to have a corrected form [illegible] filed before that work has begun.

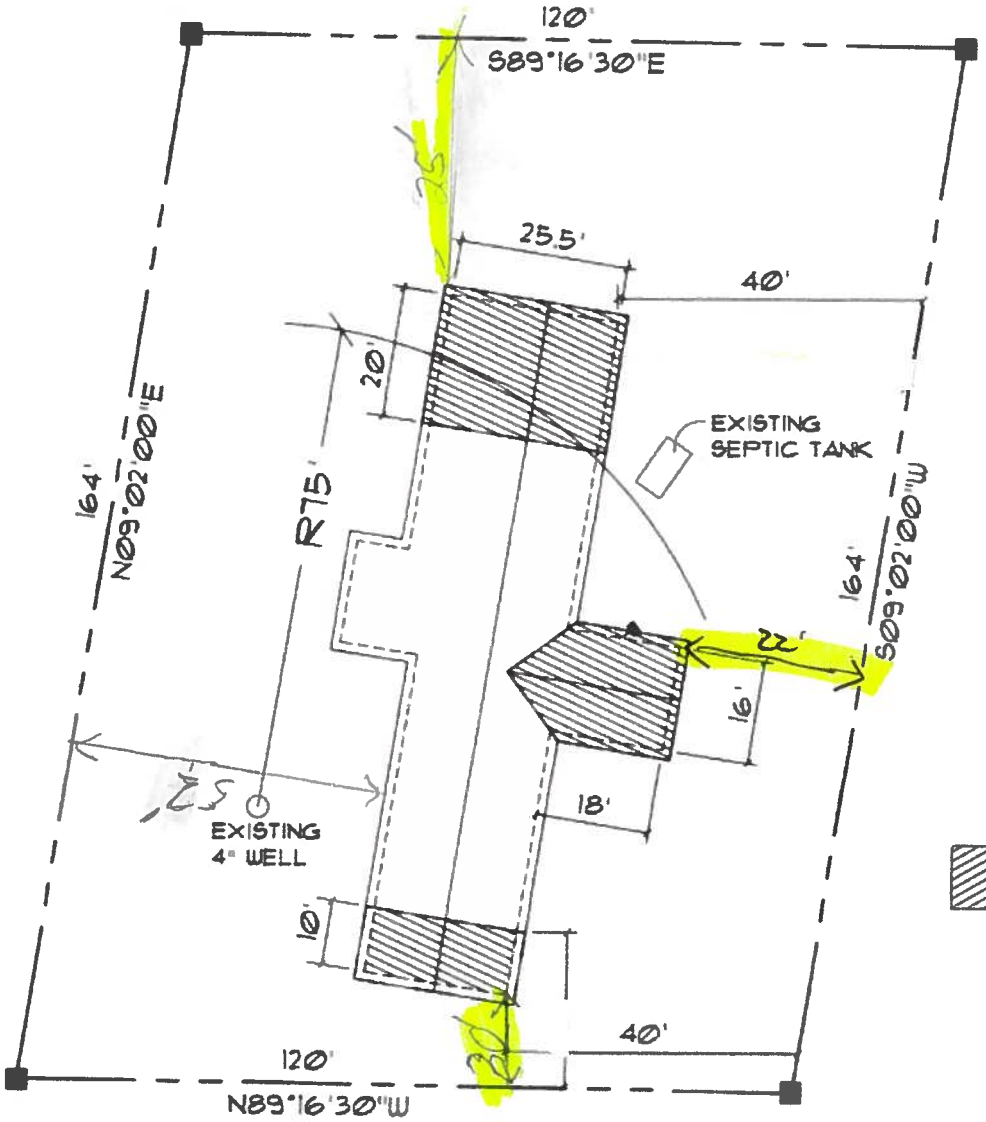
[illegible] will result in stop work orders and/or fines.

ELECTRICAL	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
MECHANICAL	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
PLUMBING	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
ROOFING	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
SHEET METAL	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
FIRE SYSTEM	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
SOLAR	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	
POOL	Company Name	Signature	
	Qualifier Name		
	Address	Phone #	

(B) 741

North

PARCEL I.D. # 19-45-17-08533-001



DENOTES ADDITION

NOTE: EXISTING RESIDENCE IS 1,350 S.F.

Site Plan

SCALE:

STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO. 19-0766
DATE PAID: 100.00
FEE PAID: 19-0766
RECEIPT #: 1448048

APPLICATION FOR:
[ ] New System [X] Existing System [ ] Holding Tank [ ] Innovative
[ ] Repair [ ] ~~Abandonment~~ [ ] Temporary [ ] ______

APPLICANT: DOUGLAS RITCHEY + DREMA RITCHEY

AGENT: Donnie Williams TELEPHONE: 386-623-2484

MAILING ADDRESS: 541 SW Airpark Gln, LC, FL 32025

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: ______ BLOCK: ______ SUBDIVISION: ______ PLATTED: ______

PROPERTY ID #: 19-4S-17-08532-001 ZONING: ______ I/M OR EQUIVALENT: [Y / (N)]

PROPERTY SIZE: .45 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ]<=2000GPD [ ]>2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [Y / (N)] DISTANCE TO SEWER: ______ FT

PROPERTY ADDRESS: 1875 Packard Street

DIRECTIONS TO PROPERTY: ______

BUILDING INFORMATION [✓] RESIDENTIAL [ ] COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
1	SFR	3	1346	* Building new bedroom
2			510 →	+ bathroom + converting
3			(1856)	old bedroom to closet +
4				utility room.

NO ORIGINAL FOUND

House built 1971

[ ] Floor/Equipment Drains

SIGNATURE: Donald E Williams DATE: 10-11-19

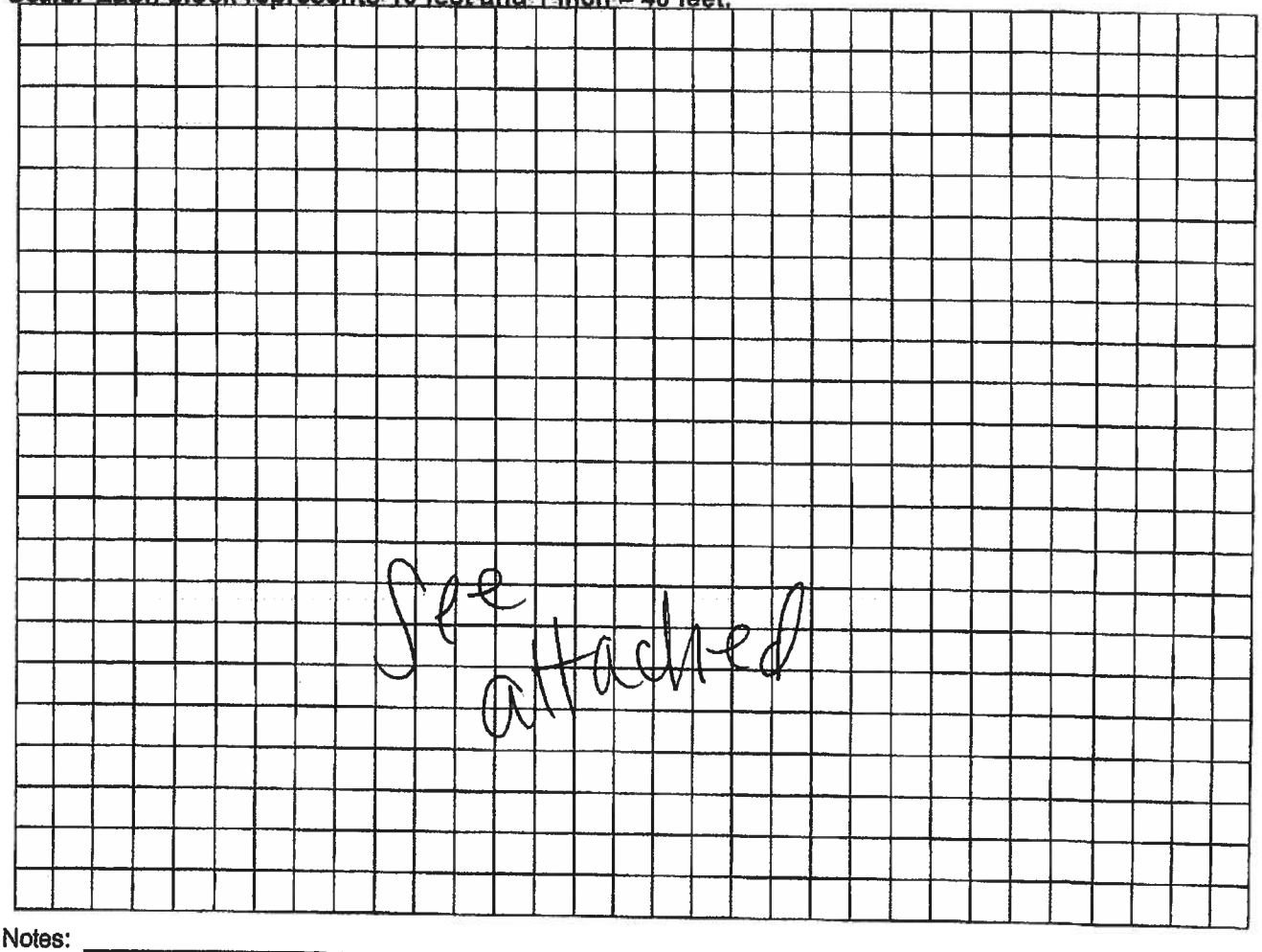
DH 4015, 08/09 (Obsoletes previous editions which may not be used)
Incorporated 64E-6.001, FAC

STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 19-0466

---------- PART II - SITEPLAN ----------

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: _____

Site Plan submitted by: Donald E Wells Agent: Owner: Date:

Plan Approved ✓ Not Approved____ Date 10/23/19

By _____ COLUMBIA County Health Department

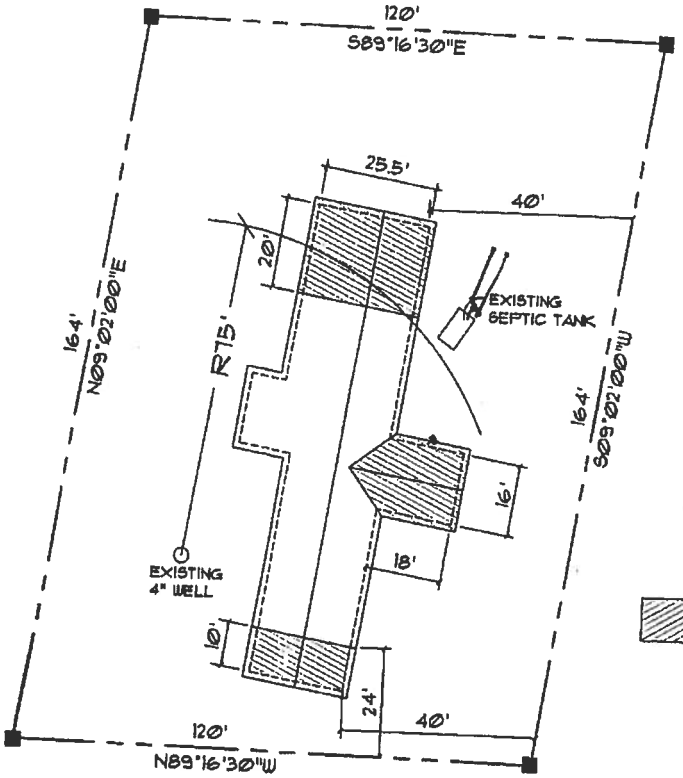
ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 08/09 (Obsoletes previous editions which may not be used) Incorporated: 64E-6.001, FAC
(Stock Number: 5744-002-4015-6)

19-01466

North

PARCEL I.D. # 19-4S-17-08533-001



NOTE: EXISTING RESIDENCE IS 1,350 S.F.

Site Plan

SCALE: 1"=40'

DOUG & DRI

Columbia County Property Appraiser

Jeff Hampton

2019 Preliminary Certified Values
updated: 8/14/2019

Parcel: << **19-4S-17-08533-001** >>

Owner & Property Info

Result: 1 of 1

Owner	**RITCHEY DOUGLAS D &** DREMA L RITCHEY 1875 SW PACKARD ST LAKE CITY, FL 32025		
Site	1875 PACKARD ST, LAKE CITY		
Description*	COMM NW COR OF SW1/4 OF NE1/4, RUN W 186.2 FT, S 1308.09 FT, E 297 FT FOR POB, RUN N 164 FT, E 120 FT, S 164 FT, W 120 FT TO POB. 365-117, WD 757-449 LE 1254-1015, DC 1270-37, WD 1335-2664, QC 1346-580, WD 1374-454,		
Area	0.45 AC	S/T/R	19-4S-17
Use Code**	SINGLE FAM (000100)	Tax District	2

*The Description above is not to be used as the Legal Description for this parcel in any legal transaction.
**The Use Code is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

Aerial Viewer | Pictometery | Google Maps

2019 | 2016 | 2013 | 2010 | 2007 | 2005 | Sales

Property & Assessment Values

2018 Certified Values		2019 Preliminary Certified	
Mkt Land (1)	$12,664	Mkt Land (1)	$12,664
Ag Land (0)	$0	Ag Land (0)	$0
Building (1)	$43,288	Building (1)	$103,487
XFOB (2)	$600	XFOB (2)	$600
Just	$56,552	Just	$116,751
Class	$0	Class	$0
Appraised	$56,552	Appraised	$116,751
SOH Cap [?]	$0	SOH Cap [?]	$0
Assessed	$56,552	Assessed	$116,751
Exempt	$0	Exempt	$0
Total Taxable	county:$56,552 city:$56,552 other:$56,552 school:$56,552	Total Taxable	county:$116,751 city:$116,751 other:$116,751 school:$116,751

Sales History

Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
12/8/2018	$127,600	1374/0454	WD	I	Q	01
10/5/2017	$100	1346/0850	QC	I	U	11
4/28/2017	$60,000	1335/2664	WD	I	Q	01
4/30/2013	$100	1254/1015	LE	I	U	30
2/24/1992	$109	757/0449	WD	I	U	01

Building Characteristics

Bldg Sketch	Bldg Item	Bldg Desc*	Year Blt	Base SF	Actual SF	Bldg Value
Sketch	1	SINGLE FAM (000100)	1971	1346	1858	$103,487

*Bldg Desc determinations are used by the Property Appraisers office solely for the purpose of determining a property's Just Value for ad valorem tax purposes and should not be used for any other purpose.

Extra Features & Out Buildings (Codes)

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0294	SHED WOOD/	0	$300.00	1.000	0 x 0 x 0	(000.00)

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

RE: Ritchey - Ritchey

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

Site Information:
Customer Info: Doug Ritchey Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: Fl

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

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

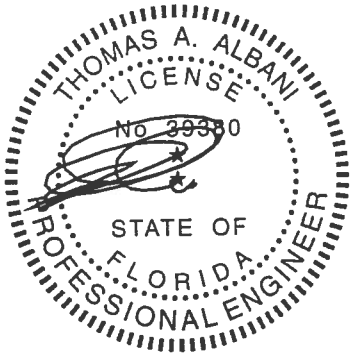
This package includes 6 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T18033213	A1GE	9/4/19
2	T18033214	A2	9/4/19
3	T18033215	B1GE	9/4/19
4	T18033216	B2	9/4/19
5	T18033217	C1GE	9/4/19
6	T18033218	C2	9/4/19

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

Truss Design Engineer's Name: 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:
September 4,2019

Job	Truss	Truss Type	Qty	Ply	Ritchey	T18033213
Ritchey	A1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066, 8 240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:33 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-atvSQ4vnDqFbZAZCQ?JcAw?MO3azwszR8qPirHyh_6O

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2-0-0 12-9-0 12-9-0 2-0-0

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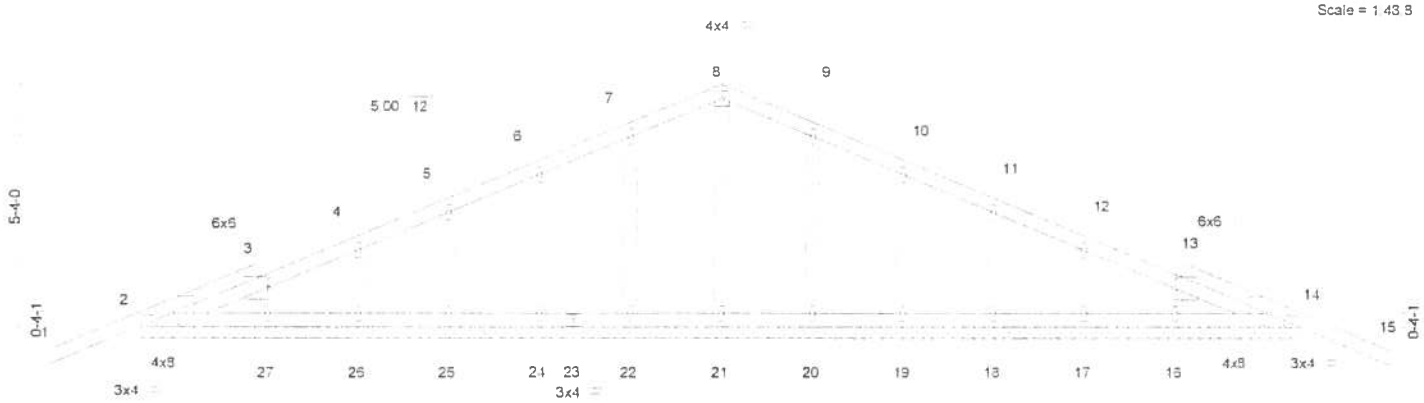

25-6-0
25-6-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [3:0-3-0,0-0-0], [13:0-3-0,0-0-0], [14:0-3-8,Edge], [14:0-3-13,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	0.26	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 133 lb	FT = 0%

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

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

REACTIONS. All bearings 25-6-0
(lb) - Max Horz 2=-84(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 22, 24, 25, 26, 20, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16 except 2=267(LC 1), 14=267(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=2ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 22, 24, 25, 26, 20, 19, 18, 17.

Thomas A. Albani PE No.39380
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:
September 4,2019

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Ritchey	T18033214
Ritchey	A2	Common	10	1	Job Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066

8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:34 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-34SqeQwP_7ORAK8O_jqri7YWGTcLfBnaMU8FOjyh_6N

-2-0-0	6-8-6	12-9-0	18-9-10	25-6-0	27-6-0
2-0-0	6-8-6	6-0-10	6-0-10	6-8-6	2-0-0

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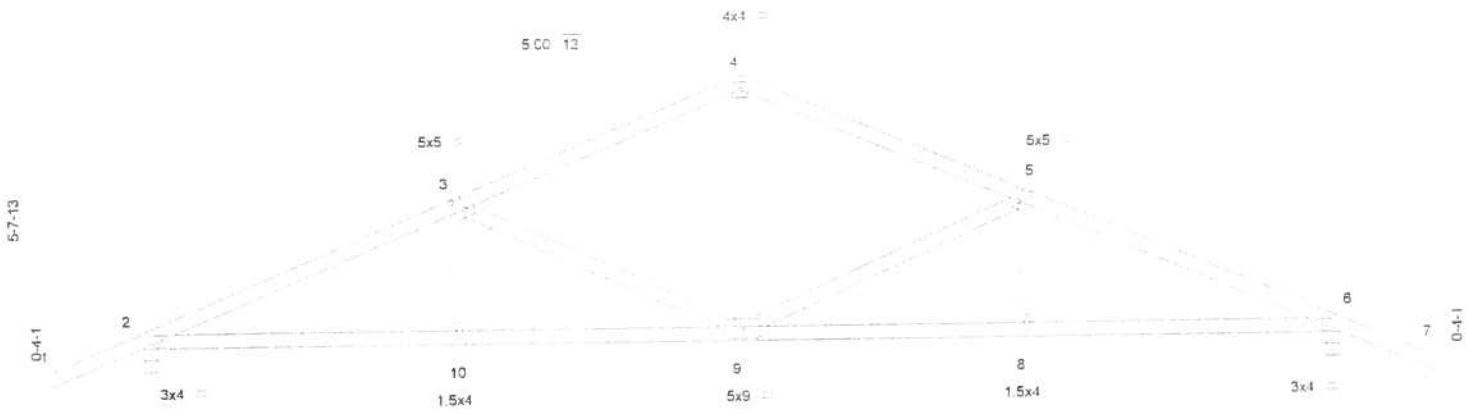

6-8-6	12-9-0	18-9-10	25-6-0
6-8-6	6-0-10	6-0-10	6-8-6

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

LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38
TCDL	10.0	Lumber DOL	1.25	BC	0.55
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS	

DEFL.	in	(loc)	l/defl	L/d
Vert(LL)	-0.09	9	>999	240
Vert(CT)	-0.19	9-10	>999	180
Horz(CT)	0.07	6	n/a	n/a

PLATES	GRIP
MT20	244/190

Weight: 120 lb FT = 0%

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

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

REACTIONS. (lb/size) 2=1140/0-3-8, 6=1140/0-3-8
Max Horz 2=-89(LC 10)
Max Uplift 2=-49(LC 12), 6=-49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2045/471, 3-4=-1403/380, 4-5=-1403/380, 5-6=-2045/471
BOT CHORD 2-10=-309/1830, 9-10=-311/1826, 8-9=-329/1826, 6-8=-327/1830
WEBS 4-9=-111/694, 5-9=-681/220, 5-8=0/263, 3-9=-681/221, 3-10=0/263

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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September 4,2019

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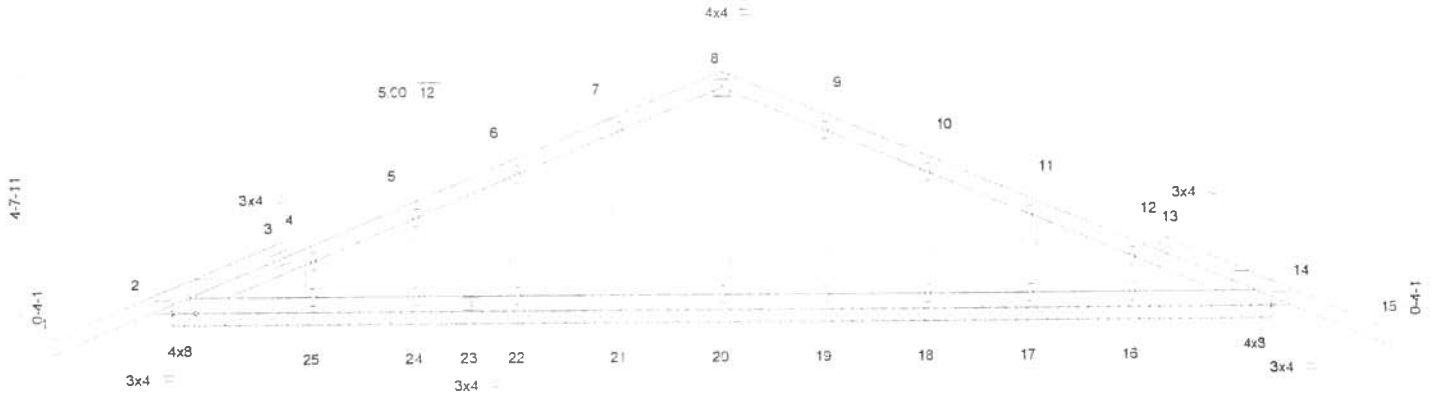
Job	Truss	Truss Type	Qty	Ply	Ritchey	T18033215
Ritchey	B1GE	Common Supported Gable	1	1	Job Reference (optional)	

Mayo Truss Company, Inc. Mayo, FL - 32066 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:35 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-XG0Drlx1IRWloUjaYQL4FL5iutGGOmdjb8upw9yh_6M

-2-0-0 11-1-0 22-2-0 24-2-0
2-0-0 11-1-0 11-1-0 2-0-0

Scale = 1:43.3



21-10-0 22-2-0
21-10-0 0-4-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [14:0-3-8,Edge], [14:0-3-13,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	0.26	Vert(LL)	-0.02	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.03	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 111 lb	FT = 0%

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

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

REACTIONS. All bearings 21-6-0.
(lb) - Max Horz 2=-73(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 24, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 24, 25, 19, 18, 17, 16 except 2=275(LC 1), 14=275(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14, 21, 22, 24, 19, 18, 17.
9) Non Standard bearing condition. Review required.

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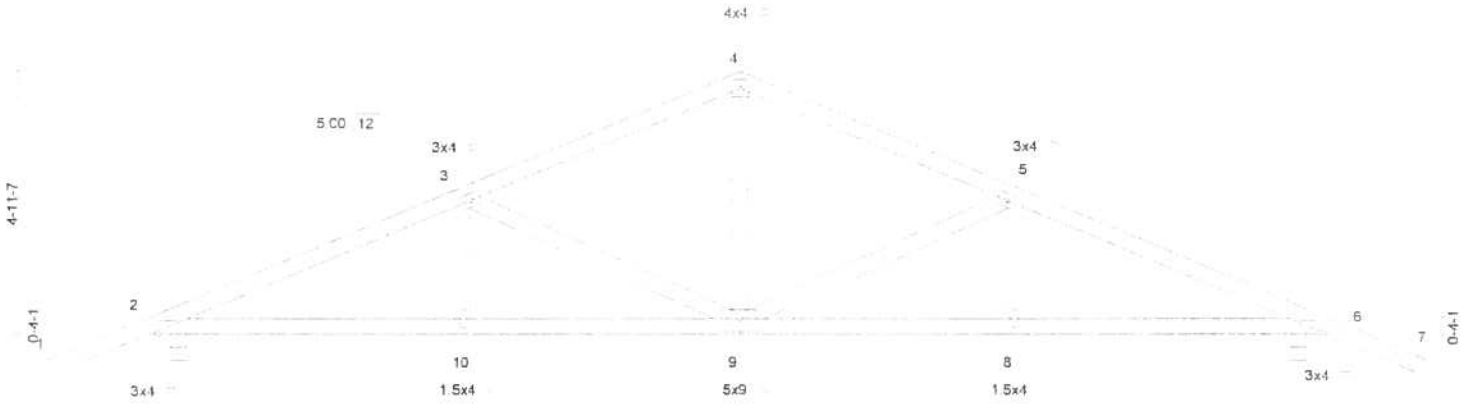
Job	Truss	Truss Type	Qty	Ply	Ritchey	T18033216
Ritchey	B2	Common	5	1	Jcb Reference (optional)	

Mayo Truss Company, Inc., Mayo, FL - 32066 — 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:36 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-?Sab35xgVle9QeIm68sJnYds6GVj79CtqodMSbyh_6L

-2-0-0	5-10-6	11-1-0	16-3-10	22-2-0	24-2-0
2-0-0	5-10-6	5-2-10	5-2-10	5-10-6	2-0-0

Scale = 1:42.0



0-4-0	5-10-6	11-1-0	16-3-10	21-10-0	22-2-0
0-4-0	5-6-6	5-2-10	5-2-10	5-6-6	0-4-0

Plate Offsets (X,Y)-- [2:0-1-6,Edge], [6:0-1-6,Edge], [9:0-4-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.36	Vert(LL)	-0.07	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 105 lb	FT = 0%

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

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

REACTIONS. (lb/size) 2=1007/0-3-8, 6=1007/0-3-8
Max Horz 2=-77(LC 10)
Max Uplift 2=-49(LC 12), 6=-49(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1582/354, 3-4=-1139/304, 4-5=-1139/304, 5-6=-1582/354
BOT CHORD 2-10=-199/1398, 9-10=-199/1398, 8-9=-225/1398, 6-8=-225/1398
WEBS 4-9=-66/523, 5-9=-474/153, 3-9=-474/153

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; 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
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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Job	Truss	Truss Type	Qty	Ply	Ritchey
Ritchey	C1GE	Common Supported Gable	1	1	T18033217

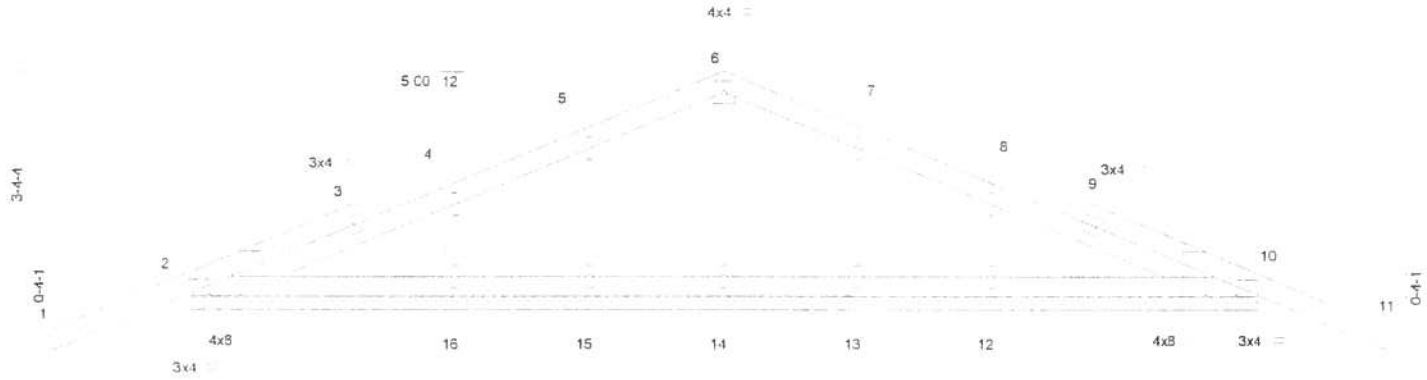
Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066

8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:37 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-Tf8zGRyIG2m01ctzfrNYKmA2Ngx3sgJ02SNv_2yh_6K

-2-0-0 | 8-0-0 | 16-0-0 | 18-0-0
2-0-0 | 8-0-0 | 8-0-0 | 2-0-0

Scale = 1:33.1



16-0-0
16-0-0

Plate Offsets (X,Y)-- [2:0-3-8,Edge], [2:0-3-13,Edge], [10:0-3-8,Edge], [10:0-3-13,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	0.26	Vert(LL)	-0.02	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-S							Weight: 76 lb	FT = 0%

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

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

REACTIONS. All bearings 16-0-0.
(lb) - Max Horz 2=-55(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13
Max Grav All reactions 250 lb or less at joint(s) 14, 15, 16, 13, 12 except 2=291(LC 21), 10=291(LC 22)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; 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
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 1.5x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

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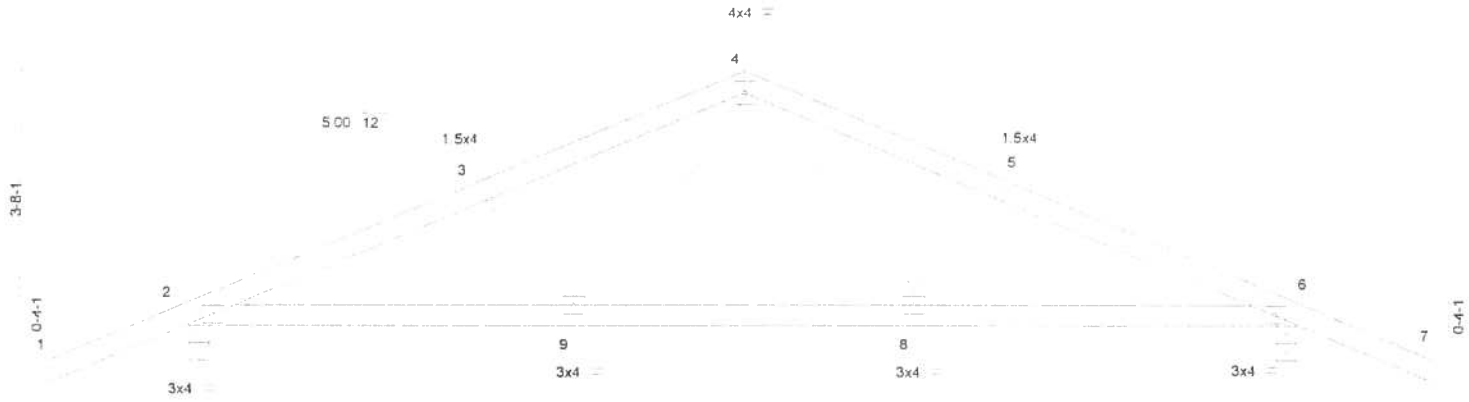
Job	Truss	Truss Type	Qty	Ply	Ritchey
Ritchey	C2	Common	9	1	T18033218

Job Reference (optional)

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Jul 14 2019 MiTek Industries, Inc. Wed Sep 4 14:43:38 2019 Page 1
ID:4O_f3kvr5D3IhWZKGSvEHMyh_AZ-xnLUnzw1MutfxR9DZuntzjEF4Dub6zAH66TXUyh_6J

-2-0-0	4-3-14	8-0-0	11-8-2	16-0-0	18-0-0
2-0-0	4-3-14	3-8-2	3-8-2	4-3-14	2-0-0

Scale: 3/8"=1'



5-6-10	10-5-6	16-0-0
5-6-10	4-10-13	5-6-10

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	0.25	Vert(LL)	0.07	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.32	Vert(CT)	-0.08	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2017/TPI2014		Matrix-AS							Weight: 74 lb	FT = 0%

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

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

REACTIONS. (lb/size) 2=760/0-3-8, 6=760/0-3-8
Max Horz 2=-59(LC 10)
Max Uplift 2=-187(LC 12), 6=-187(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1192/1014, 3-4=-1058/994, 4-5=-1058/993, 5-6=-1192/1014
BOT CHORD 2-9=-836/1065, 8-9=-526/734, 6-8=-860/1065
WEBS 4-8=-406/353, 4-9=-406/353

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft, eave=4ft; Cat II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=187, 6=187.
6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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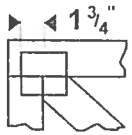
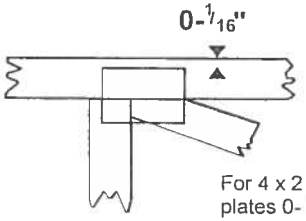
Symbols

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

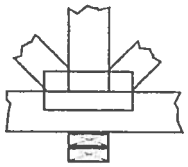
4 x 4

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

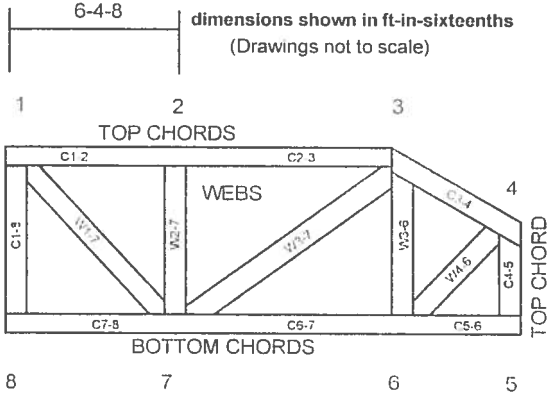


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

MiTek

⚠ 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.

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To:
IND-RES

Quotation

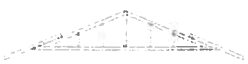
Job Number: **0919-011**
Page: 1
Date: 09/04/19 15:42:56

Project: Ritchey
Model:
Block No:
Lot No:

Account No: 000000010
Designer: Jason DeGroff
Estimator:
Salesperson: Inside Sales
Quote Number: 0919-011
P.O. Number:

Contact: Site: Office:
Name: QUOTING ONLY QUOTING ONLY
Phone:
Fax:

Deliver To:

Profile:	Qty:	Truss Id:	Span:	Truss Type:	Slope	LOH	ROH
	1	A1GE	25-06-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00
	10	A2	25-06-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00
	1	B1GE	22-02-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00
	5	B2	22-02-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00
	1	C1GE	16-00-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00
	9	C2	16-00-00 2 X 4 / 2 X 4	COMMON	5.00	02-00-00	02-00-00

ALL PRICES BASED ON CURRENT LUMBER PRICES AND ARE SUBJECT TO CHANGE WITHOUT NOTICE AFTER 30 DAYS

MAYO TRUSS IS NOT RESPONSIBLE FOR CRANE SCHEDULING AND/OR FEES. MAYO TRUSS RESERVES THE RIGHT TO DETERMINE WHETHER THE SITE FOR DELIVERY REQUESTED BY THE PURCHASER IS SUITABLE FOR SUCH DELIVERY AND MAYO TRUSS MAY REFUSE TO DELIVER TO A SITE IF MAYO TRUSS IS OF THE OPINION THAT DELIVERY WOULD BE UNSUITABLE OR UNSAFE. THE PURCHASER SHALL BE RESPONSIBLE FOR ALL COSTS AND DAMAGES INCURRED WHERE ADEQUATE ACCESS FOR DELIVERY CANNOT BE OBTAINED.

We require a $250 deposit for sealed truss engineering. This cost is included in the quoted price for those that will require it

CREDIT/DEBIT CARD TRANSACTIONS ARE LIMITED TO AN AMOUNT OF $250

Total Truss Count: 27

7.000%	$109.58
Selling Price	**$1,675.00**

FLORIDA PRODUCT APPROVALS
10-16-15

Item:	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	5'8" Inswing & Outswing Fiberglass	FL-15215-R3
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Siding	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SPH4	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:	Ritchey Addition	Builder Name:	
Street:		Permit Office:	Columbia
City, State, Zip:	, FL ,	Permit Number:	
Owner:		Jurisdiction:	
Design Location:	FL, Gainesville	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	1
5. Is this a worst case?	No
6. Conditioned floor area above grade (ft²)	510
Conditioned floor area below grade (ft²)	0

7. Windows(15.0 sqft.)	Description	Area
a. U-Factor: SHGC:	Dbl U=0.55 SHGC=0.50	15.00 ft²
b. U-Factor: SHGC:	N/A	ft²
c. U-Factor: SHGC:	N/A	ft²
d. U-Factor: SHGC:	N/A	ft²
Area Weighted Average Overhang Depth:		1.333 ft
Area Weighted Average SHGC:		0.500

8. Floor Types (510.0 sqft.)	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	510.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types (728.0 sqft.)	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	568.00 ft²
b. Concrete Block - Int Insul, Exterior	R=13.0	160.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types (510.0 sqft.)	Insulation	Area
a. Under Attic (Vented)	R=38.0	510.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts		R	ft²

12. Cooling systems	kBtu/hr	Efficiency
a. PTAC and Room Unit	5.0	EER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Window Wall Heat Pump	8.5	HSPF:7.70

14. Hot water systems	
a. Electric	Cap: 40 gallons EF: 0.920
b. Conservation features	None
15. Credits	None

COLUMBIA COUNTY BUILDING DEPARTMENT Received for FILE COPY Code Compliance

Glass/Floor Area: 0.029

Total Proposed Modified Loads: 16.62

Total Baseline Loads: 21.04

PASS

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

PREPARED BY: _____

DATE: 9/5/2019

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.

GREAT SEAL OF THE STATE OF FLORIDA * IN GOD WE TRUST *

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).**
- **Compliance requires a roof absorptance test and a roof emittance test in accordance with R405.7.2**

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	Ritchey Addition	Bedrooms:	1	Address Type:	Lot Information
Building Type:	User	Conditioned Area:	510	Lot #	
Owner Name:		Total Stories:	1	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:		Rotate Angle:	0	Street:	
Permit Office:	Columbia	Cross Ventilation:	No	County:	Columbia
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	, FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site
	FL, Gainesville	FL GAINESVILLE REG

BLOCKS

Number	Name
1	Block1

SPACES

Number	Name
1	Main

FLOORS

✓	#	Floor Type
	1	Slab-On-Grade Edge I

ROOF

✓	#	Type	Mate
	1	Gable or shed	Compositio shingles

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
	1	Full attic	Vented	300	510 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
	1	Under Attic (Vented)	Main	38	Blown	510 ft²	0	Wood

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

WALLS

√	#	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Below Grade%
	1	S	Exterior	Frame - Wood	Main	13	25	6	8		204.0 ft²		0.23	0.75	0
	2	W	Exterior	Frame - Wood	Main	13	20		8		160.0 ft²		0.23	0.75	0
	3	N	Exterior	Frame - Wood	Main	13	25	6	8		204.0 ft²		0.23	0.75	0
	4	E	Exterior	Concrete Block - Int Insul	Main	13	20		8		160.0 ft²		0	0.75	0

DOORS

√	#	Ornt	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
	1	N	Insulated	Main	None	.46	3		6	8	20 ft²
	2	E	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	Overhang Separation	Int Shade	Screening
	1	E	4	Vinyl	Double (Tinted)	Yes	0.55	0.5	N	15.0 ft²	1 ft 4 in	2 ft 0 in	Drapes/blinds	None

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000254	340	18.67	35.1	.0956	5

HEATING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1	Window/Wall Heat Pump	None	HSPF:7.7	8.55 kBtu/hr	1	Ductless

COOLING SYSTEM

√	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1	PTAC and Room Unit	Through the Wall(Split)	EER: 14	5.03 kBtu/hr	150 cfm	0.75	1	Ductless

HOT WATER SYSTEM

√	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Electric	None	Main	0.92	40 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		

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES

Programable Thermostat: N

Ceiling Fans:

Cooling	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule: FloridaCode 2014

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72

MASS

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 79

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. New (From Plans)
2. Single-family or multiple-family	2. Single-family
3. No. of units (if multiple-family)	3. 1
4. Number of bedrooms	4. 1
5. Is this a worst case? (yes/no)	5. No
6. Conditioned floor area (sq. ft.)	6. 510
7. Windows, type and area	
a) U-factor:(weighted average)	7a. 0.550
b) Solar Heat Gain Coefficient (SHGC)	7b. 0.500
c) Area	7c. 15.0
8. Skylights	
a) U-factor:(weighted average)	8a. NA
b) Solar Heat Gain Coefficient (SHGC)	8b. NA
9. Floor type, insulation level:	
a) Slab-on-grade (R-value)	9a. 0.0
b) Wood, raised (R-value)	9b
c) Concrete, raised (R-value)	9c.
10. Wall type and insulation:	
A. Exterior.	
1. Wood frame (Insulation R-value)	10A1. 13.0
2. Masonry (Insulation R-value)	10A2. 13.0
B. Adjacent:	
1. Wood frame (Insulation R-value)	10B1.
2. Masonry (Insulation R-value)	10B2.
11. Ceiling type and insulation level	
a) Under attic	11a. 38.0
b) Single assembly	11b.
c) Knee walls/skylight walls	11c.
d) Radiant barrier installed	11d. No

12. Ducts, location & insulation level	
a) Supply ducts	R
b) Return ducts	R
c) AHU location	
13. Cooling system:	Capacity 5.0
a) Split system	SEER
b) Single package	SEER
c) Ground/water source	SEER/COP
d) Room unit/PTAC	EER 14.0
e) Other	
14. Heating system:	Capacity 8.5
a) Split system heat pump	HSPF
b) Single package heat pump	HSPF
c) Electric resistance	COP
d) Gas furnace, natural gas	AFUE
e) Gas furnace, LPG	AFUE
f) Other	7.70
15. Water heating system	
a) Electric resistance	EF 0.92
b) Gas fired, natural gas	EF
c) Gas fired, LPG	EF
d) Solar system with tank	EF
e) Dedicated heat pump with tank	EF
f) Heat recovery unit	HeatRec%
g) Other	
16. HVAC credits claimed (Performance Method)	
a) Ceiling fans	
b) Cross ventilation	No
c) Whole house fan	No
d) Multizone cooling credit	
e) Multizone heating credit	
f) Programmable thermostat	No

*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:_____ City/FL Zip: __, FL_____

Building Input Summary Report

PROJECT

Title:	Ritchey Addition	Bedrooms:	1	Address type:	L
Building Type:	User	Conditioned Area:	510	Lot #:	
Owner:		Total Stories:	1	Block/SubDivision:	
Builder Name:		Worst Case:	No	PlatBook:	
Permit Office:	Columbia	Rotate Angle:	0	Street:	
Jurisdiction:		Cross Ventilation:	No	County:	Columbia
Family Type:	Single-family	Whole House Fan:	No	City, State, Zip:	, FL,
New/Existing:	New (From Plans)	Terrain:	Suburban		
Year Construct:	2019	Shielding:	Suburban		
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5%	Design Temp 2.5%	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92	70	75	1305.5	51	Medium

UTILITY

✓ Fuel	Unit	Utility Name	Monthly Fixed Cost	$ Unit
___ Electricity	kWh	Florida Average	0.00	0.12
___ Natural Gas	Therm	Florida Average	0.00	1.80
___ Fuel Oil	Gallon	Florida Default	0.00	3.53
___ Propane	Gallon	Florida Default	0.00	1.40

SURROUNDINGS

Ornt	Type	Shade Trees Height	Shade Trees Width	Shade Trees Distance	Shade Trees Exist	Adjacent Buildings Height	Adjacent Buildings Width	Adjacent Buildings Distance
N	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
NE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
E	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
SE	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
S	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
SW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
W	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft
NW	None	0 ft	0 ft	0 ft		0 ft	0 ft	0 ft

BLOCKS

✓ Number	Name	Area	Volume
___ 1	Block1	510	4080

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	Main	510	4080	Yes	1	1	Yes	Yes	Yes

Building Input Summary Report

FLOORS (Total Exposed Area = 510 sq.ft.)

√ #	Floor Type	Space	Exposed Perim	Perimeter R-Value	Area	U-Factor	Joist R-Value	Tile	Wood	Carpet
___ 1	Slab-On-Grade Edge Ins	Main	91	0	510 ft	0.518	---	0.2	0	0.8

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	Composition shingles	537 ft²	84 ft²	Light	N	0.75	Yes	0.9	Yes	0	18.4

ATTIC

√ #	Type	Ventilation	Vent Ratio 1 in	Area	RBS	IRCC
___ 1	Full attic	Vented	300	510 ft²	N	N

CEILING (Total Exposed Area = 510 sq.ft.)

√ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Under Attic(Vented)	Main	38.0	Blown	510.0ft²	0.024	0.00	Wood

WALLS (Total Exposed Area = 728 sq.ft.)

√ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Width In	Height Ft	Height In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	S	Exterior	Frame - Wood	Main	13.0	25.0	6	8.0	0	204.0	0.084		0.23	0.75	0 %
___ 2	W	Exterior	Frame - Wood	Main	13.0	20.0	0	8.0	0	160.0	0.084		0.23	0.75	0 %
___ 3	N	Exterior	Frame - Wood	Main	13.0	25.0	6	8.0	0	204.0	0.084		0.23	0.75	0 %
___ 4	E	Exterior	Conc. Blk - Int Ins	Main	13.0	20.0	0	8.0	0	160.0	0.064		0	0.75	0 %

DOORS (Total Exposed Area = 37 sq.ft.)

√ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Width In	Height Ft	Height In	Area
___ 1	N	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²
___ 2	E	Exterior	Insulated	Main	None	0.46	2.00	6	6.00	8	16.7ft²

WINDOWS (Total Exposed Area = 15 sq.ft.)

√ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Area	-----Overhang----- Depth	Separation	Interior Shade	Screening
___ 1	E	4	Vinyl	Double (Tinted)	Yes	0.55	0.50	N	N	15.0ft²	1.0 ft 4 in	2.0 ft 0 in	Drapes blinds	None

INFILTRATION

√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)
___ 1	Wholehouse	Proposed ACH(50)	0.00025	340	18.67	35.10	0.0956	5.0	All

Building Input Summary Report

MASS

#	Mass Type	Area	Thickness	Furniture Fraction	Space
1	Default(8 lbs sq ft	0 ft	0 ft	0.30	Main

HEATING SYSTEM

#	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump---- Entry	Power	Volt	Current	Ducts	Block
1	Window Wall HP	None		HSPF: 7.70	8.5		0.00	0.00	0.00	sys#0	1

COOLING SYSTEM

#	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
1	PTAC and Room Unit	Through the Wall(Split)		EER:14	5.0	150	0.75	Ductless	1

HOT WATER SYSTEM

#	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins	Pipe length
1	Electric	None	Main	0.92 (0.92)	40.00 gal	60 gal	120 deg	Standard	=>R-3	99

	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

Duct #	---------Supply--------- Location	R-Value	Area	---------Return--------- Location	R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	Cool

TEMPERATURES

Programable Thermostat: N Ceiling Fans: N

Cooling	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec

Thermostat Schedule: FloridaCode 2014

Schedule Type		Hours 1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Cooling (WEH)	AM	75	75	75	75	75	75	75	75	75	75	75	75
	PM	75	75	75	75	75	75	75	75	75	75	75	75
Heating (WD)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72
Heating (WEH)	AM	72	72	72	72	72	72	72	72	72	72	72	72
	PM	72	72	72	72	72	72	72	72	72	72	72	72

Building Input Summary Report

CLOTHES WASHERS

ID	Type	Screen	Location	Capacity	Make	Model	Schedule	LoadsPerYr
1	Cl washer	Default Existing	RoomsInBlock1	2.87400007247925			HERS2011	328

CLOTHES DRYERS

ID	Type	Screen	Location	Quantity	Fuel Type	Make	Model	Schedule	kWhPerYr
1		Default Existing	RoomsInBlock1	4.5	Electricity			HERS2011	0

DISHWASHERS

ID	Type	Screen	Location	Capacity	Vintage	Make	Model	Schedule	kWhPerYr
1	Dishwasher 1 Mai	Default New	RoomsInBlock1	12	2004 or Newer	EStarRef	EStarRef	HERS2011	372

RANGE OVENS

ID	Type	S ree	Location	Type	Fuel Type	Ma -	Model	Cook o	Oven
1	RangeOven	D fault N	RoomsInBlock1	Combo	Elec			Electric fla	Not Convec

HARD WIRED LIGHTING

ID	Type	S ee	Location	Total#	Quantity#	Comp Fl	All Other Fl	Bulb Type	Schedule	Watts per bulb
1	Hard-Wired	By Count - Q al fy/i	Main	20	2				HERS2011	60
2	Hard-Wired	By Count Q a fy/	Exterior	2	2				HERS2011	60

MISC ELECTRICAL LOADS

ID	Type	S reen	Location	Item	Quantity	Catagory	Operatin	Schedule	On Standby
1	Misc Elec Load	S mp e D fa l	Main		1		1	HERS2011	1

APPLIANCES & LIGHTING SCHEDULES

Appliance Schedule. HERS2 4

Schedule Type			Hours 1	2	3	4	5	6	7	8	9	10	11	12
Occupancy peak.	400 Bt	AM	0.930	0.9 3	0.930	0.930	0.930	0.930	0.930	0.980	0.450	0.270	0.270	0.270
°o Released	100 °o	PM	0.270	0 270	0.270	0.270	0.930	0.610	1.000	1.000	0.930	0.930	0.930	0.930
refrig peak:	0 W	AM	0.824	0.80 4	0.784	0.764	0.744	0.734	0.744	0.754	0.764	0.794	0.814	0.854
°o Released	100 °	PM	0.854	0.85 4	0.884	0.904	0.925	0.945	0.925	0.915	0.905	0.894	0.874	0.854
cWash peak:	5 W	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
°o Released.	30 °o	PM	0.875	0.85 5	0.800	0.625	0.525	0.600	0.575	0.550	0.525	0.700	0.650	0.375
E-cDry peak:	4 W	AM	0.200	0 100	0.050	0 050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
°o Released:	15 %	PM	0.875	0 850	0.800	0.625	0.525	0.600	0.575	0.550	0.525	0.700	0.650	0.375
G-cDry peak:	168 Bt	AM	0.200	0.100	0.050	0.050	0.050	0.075	0.200	0.375	0.500	0.800	0.950	1.000
°o Released:	15 %	PM	0.875	0 850	0.800	0 625	0.525	0.600	0.575	0.550	0.525	0.700	0.650	0.375
dWash peak:	33 W	AM	0.139	0.050	0.028	0.024	0.029	0.090	0.169	0.303	0.541	0.594	0.502	0.443
°o Released:	60 %	PM	0.376	0 396	0.334	0.323	0.344	0.448	0.791	1.000	0.800	0.597	0.383	0.281

Building Input Summary Report

APPLIANCES & LIGHTING SCHEDULES(Continued)

E-rOven peak:	9 W	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.400
% Released:	80 %	PM	0.457	0.343	0.286	0.400	0.571	1.000	0.857	0.429	0.286	0.229	0.171	0.114
G-rOven peak:	933 Btu	AM	0.057	0.057	0.057	0.057	0.057	0.114	0.171	0.286	0.343	0.343	0.343	0.400
% Released:	80 %	PM	0.457	0.343	0.286	0.400	0.571	1.000	0.857	0.429	0.286	0.229	0.171	0.114
TVs peak:	176 W	AM	0.100	0.050	0.050	0.050	0.100	0.200	0.400	0.450	0.400	0.200	0.100	0.100
% Released:	100 %	PM	0.050	0.050	0.150	0.450	0.850	1.000	0.950	0.800	0.500	0.250	0.150	0.100
cFan peak:	0 W	AM	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.250	0.250	0.250	0.250	0.250
% Released:	100 %	PM	0.250	0.250	0.250	0.250	0.250	0.250	0.550	0.600	0.600	0.600	0.600	0.600
lgts-in peak:	279 W	AM	0.160	0.150	0.160	0.180	0.230	0.450	0.420	0.260	0.190	0.160	0.120	0.110
% Released:	100 %	PM	0.160	0.170	0.250	0.270	0.340	0.550	0.600	0.880	1.000	0.880	0.510	0.280
lgts-out peak:	34 W	AM	1.000	1.000	1.000	1.000	1.000	0.750	0.750	0.000	0.000	0.000	0.000	0.000
% Released:	0 %	PM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.750	0.750	0.750	1.000
lgts-gar peak:	0 W	AM	0.000	0.000	0.000	0.000	0.000	0.500	0.750	1.000	0.750	0.500	0.000	0.000
% Released:	0 %	PM	0.000	0.000	0.500	0.500	0.750	1.000	0.750	0.500	0.000	0.000	0.000	0.000
MEL peak:	0 W	AM	0.500	0.500	0.500	0.750	0.750	0.850	1.000	1.000	1.000	1.000	0.900	0.900
% Released:	90 %	PM	0.900	0.900	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.850	0.750	0.750

FORM R405-2014

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 88

The lower the EnergyPerformance Index, the more efficient the home.

, , FL,

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		1
5. Is this a worst case?		No
6. Conditioned floor area (ft²)		510
7. Windows**	Description	Area
a. U-Factor:	Dbl, U=0.55	15.00 ft²
SHGC:	SHGC=0.50	
b. U-Factor:	N/A	ft²
SHGC:		
c. U-Factor:	N/A	ft²
SHGC:		
d. U-Factor:	N/A	ft²
SHGC:		
Area Weighted Average Overhang Depth:		1.333 ft.
Area Weighted Average SHGC:		0.500

8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	510.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

9. Wall Types	Insulation	Area
a. Frame - Wood, Exterior	R=13.0	568.00 ft²
b. Concrete Block - Int Insul, Exterior	R=13.0	160.00 ft²
c. N/A	R=	ft²
d. N/A	R=	ft²

10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=38.0	510.00 ft²
b. N/A	R=	ft²
c. N/A	R=	ft²

11. Ducts	R	ft²

12. Cooling systems	kBtu/hr	Efficiency
a. PTAC and Room Unit	5.0	EER:14.00

13. Heating systems	kBtu/hr	Efficiency
a. Window/Wall Heat Pump	8.5	HSPF:7.70

14. Hot water systems
a. Electric — Cap: 40 gallons, EF: 0.92
b. Conservation features
None

15. Credits — None

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction 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: _____ City/FL Zip: _____

*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Email EnergyGauge tech support at techsupport@energygauge.com or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

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

FLORIDA PRODUCT APPROVALS
10-16-15

Item	Manufacturer	Product Description:	Approval Number:
Exterior Doors:	Masonite	Inswing & Outswing Fiberglass	FL-8228-R7
	Masonite	Inswing & Outswing Steel	FL-4904-R7
	Plastpro	8'0" Inswing & Outswing Fiberglass	FL-15220-R1
	Plastpro	Inswing & Outswing Steel	FL-15962-R2
	Plastpro	6'8" Inswing & Outswing Fiberglass	FL-15215-R3
Windows:	MI	Aluminum 185 Single Hung	FL-17499
		Aluminum 185 Picture Window	FL-15349
		Vinyl 3540 Single Hung	FL-17676-R1
		Vinyl 3500 Picture Window	FL-18644
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
		Vinyl Siding	FL-15867-R1
Underlayment:	Woodland	30# Felt	FL-17206-R3
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
Siding:	Allura of Plycem	Cement board lap siding	FL-17482-R2
	James Hardie	Cement board lap siding	FL-13192-R4
Simpson		LSTA – MSTA, SP114	FL-13872-R2
	GAF	Tiger Paw Underlayment	FL-15487-R5
Metal Roofing		5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

Residential System Sizing Calculation

Summary

Project Title:
Ritchey Addition

, FL

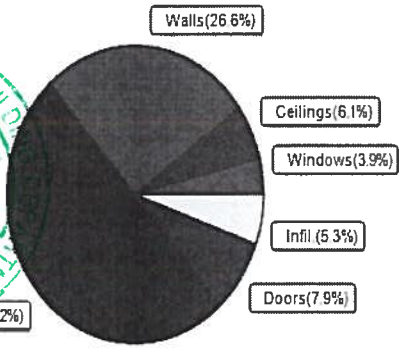
9/5/2019

Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature(TMY3 99%)	30	F	Summer design temperature(TMY3 99%)	94	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	40	F	Summer temperature difference	19	F
Total heating load calculation	**8548**	**Btuh**	**Total cooling load calculation**	**5418**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Window/Wall Heat Pump)	100.0	8548	Sensible (SHR = 0.75)	76.2	3773
Heat Pump + Auxiliary(0.0kW)	100.0	8548	Latent	268.0	1258
			Total (Window/Wall Heat Pump)	92.9	5031

WINTER CALCULATIONS

Winter Heating Load (for 510 sqft)

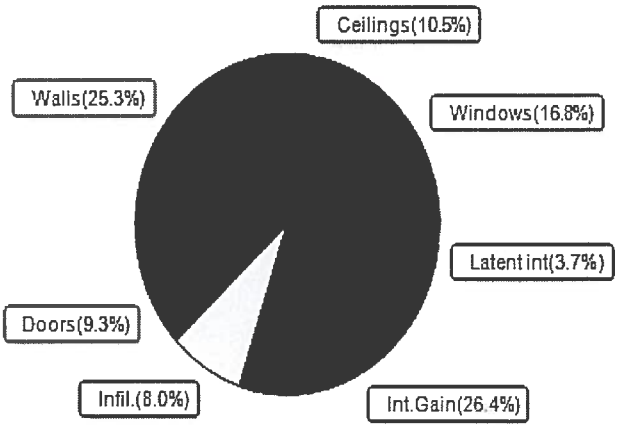
Load component			Load	
Window total	15	sqft	330	Btuh
Wall total	676	sqft	2275	Btuh
Door total	37	sqft	675	Btuh
Ceiling total	510	sqft	518	Btuh
Floor total	510	sqft	4295	Btuh
Infiltration	10	cfm	456	Btuh
Duct loss			0	Btuh
Subtotal			**8548**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**8548**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 510 sqft)

Load component			Load	
Window total	15	sqft	909	Btuh
Wall total	676	sqft	1372	Btuh
Door total	37	sqft	506	Btuh
Ceiling total	510	sqft	570	Btuh
Floor total			0	Btuh
Infiltration	8	cfm	162	Btuh
Internal gain			1430	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			**4948**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			269	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			200	Btuh
Total latent gain			**469**	**Btuh**
TOTAL HEAT GAIN			**5418**	**Btuh**



Powered by ACCA MANUAL J 8th Edition

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
Ritchey Addition
, FL Building Type: User

9/5/2019

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 40.0 F (TMY3 99%)

Component Loads for Whole House

Window	Panes/Type	Frame	U	Orientation	Area(sqft) X	HTM=	Load
1	2, NFRC 0.50	Vinyl	0.55	E	15.0	22.0	330 Btuh
	Window Total				15.0(sqft)		330 Btuh
Walls	Type	Ornt.	Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext	(0.089)	13.0/0.0	204	3.55	724 Btuh
2	Frame - Wood	- Ext	(0.089)	13.0/0.0	160	3.55	568 Btuh
3	Frame - Wood	- Ext	(0.089)	13.0/0.0	184	3.55	653 Btuh
4	Conc Blk,Hollow	- Ext	(0.064)	13.0/0.0	128	2.56	329 Btuh
	Wall Total				676(sqft)		2275 Btuh
Doors	Type	Storm	Ueff.		Area X	HTM=	Load
1	Insulated - Exterior,	n	(0.460)		20	18.4	368 Btuh
2	Insulated - Exterior,	n	(0.460)		17	18.4	307 Btuh
	Door Total				37(sqft)		675Btuh
Ceilings	Type/Color/Surface		Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/Shing		(0.025)	38.0/0.0	510	1.0	518 Btuh
	Ceiling Total				510(sqft)		518Btuh
Floors	Type		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	91.0 ft(perim.)	47.2	4295 Btuh
	Floor Total				510 sqft		4295 Btuh
					Envelope Subtotal:		8092 Btuh

Infiltration	Type	Wholehouse ACH	Volume(cuft)	Wall Ratio	CFM=	
	Natural	0.15	4080	1.00	10.4	456 Btuh
Duct load	NA, R0.0, Supply(), Return()			(DLM of 0.000)		0 Btuh
All Zones			**Sensible Subtotal All Zones**			**8548 Btuh**

WHOLE HOUSE TOTALS

Totals for Heating	Subtotal Sensible Heat Loss	8548 Btuh
	Ventilation Sensible Heat Loss	0 Btuh
	Total Heat Loss	8548 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
Ritchey Addition
Building Type: User

, FL

9/5/2019

EQUIPMENT		
1. Window/Wall Heat Pump	#	8548 Btuh

Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values)
or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)
U - (Window U-Factor)
HTM - (ManualJ Heat Transfer Multiplier)

Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
Ritchey Addition

, FL

9/5/2019

Reference City: Gainesville, FL Temperature Difference: 19.0F(TMY3 99%) Humidity difference: 51gr.

Component Loads for Whole House

	Type*						Overhang		Window Area(sqft)			HTM		Load
Window	Panes	SHGC	U	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2 NFRC	0.50, 0.55	B-L	No		E	1.3ft	2.0ft	15.0	0.0	15.0	14	35	522 Btuh
	Excursion													387 Btuh
	Window Total								15 (sqft)					909 Btuh

Walls	Type	U-Value	R-Value Cav/Sheath	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	0.09	13.0/0.0	204.0	2.3	462 Btuh
2	Frame - Wood - Ext	0.09	13.0/0.0	160.0	2.3	362 Btuh
3	Frame - Wood - Ext	0.09	13.0/0.0	184.0	2.3	416 Btuh
4	Concrete Blk,Hollow - Ext	0.06	13.0/0.0	128.3	1.0	132 Btuh
	Wall Total			676 (sqft)		1372 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	13.8	276 Btuh
2	Insulated - Exterior	16.7	13.8	230 Btuh
	Door Total	37 (sqft)		506 Btuh

Ceilings	Type/Color/Surface	U-Value	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/Light/Shingle	0.025	38.0/0.0	510.0	1.12	570 Btuh
	Ceiling Total			510 (sqft)		570 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	510 (ft-perimeter)	0.0	0 Btuh
	Floor Total		510.0 (sqft)		0 Btuh
			Envelope Subtotal:		3356 Btuh

Infiltration	Type	Average ACH	Volume(cuft)	Wall Ratio	CFM=	Load
	Natural	0.11	4080	1	7.8	162 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		1	X 230	+	1200	1430 Btuh
				Sensible Envelope Load:		4948 Btuh
Duct load	NA, Supply(R0.0-None), Return(R0.0-None)			(DGM of 0.000)		0 Btuh
				Sensible Load All Zones		**4948 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Ritchey Addition
Climate:FL_GAINESVILLE_REGIONAL_A

, FL

9/5/2019

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**4948 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**4948 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**4948 Btuh**
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	269 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (1.0 people @ 200 Btuh per person)	200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**469 Btuh**
	TOTAL GAIN	**5418 Btuh**

EQUIPMENT

1. PTAC and Room Unit	#	5031 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)
(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
- For Blinds: Assume medium color, half closed
For Draperies: Assume medium weave, half closed
For Roller shades: Assume translucent, half closed
(IS - Insect screen: none(N), Full(F) or Half(½))
(Ornt - compass orientation)

Version 8

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)*