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Zoning Official LW					_	
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Owner Builder DiscSeptic Permit No. 20.			gavit d enisvine			SUD VF FORM
Applicant (Who will sig	n/pickup the pen	mit) LAMAR Du	PREE	Phor	e 386- 9	367-0090
Address 406 5W	THERESA COURT	LAKE CITY FIA.	32025			
Owners Name <u>WAJ</u>		J .		Phone3	86- 623	-1643
911 Address 2723	SW KOONYIL	LLE AVE, LAKE	E CITY FIA. 3	2024		
Contractors Name			•			
Address 944	E. Duval St	reet lake	City, FLA. 32	055		
Contractor Email <u>du</u> s	PREES. CEM P G	MAIL . Com		***include	to get updo	ites on this job.
ee Simple Owner Nar						
Bonding Co. Name & .		* ;	u.e	8 8		W1
Architect/Engineer No			942 426 S.W.C	OMMERCE DE L	30 m LAKE C	174 Fla. 32025
Mortgage Lenders Na		•				
Circle the correct pow			Clay Elec. Su	Jwannee Valley	/ Elec. D	uke Energy
Property ID Number	00322-008		Estimated Co	onstruction Cos	110,000	0.00
Subdivision Name	_			ot Block _	•	
Driving Directions from	•	EST ON US 90 7				
KOONVILLE AVE. (
			HIDE ON KIG	26		
Construction ofHa	m <i>E</i>			Commerci	al OR +	Residential
Proposed Use/Occupa			- 10		2 8/2	n Property NONE
	776776					Triopelly <u>wow</u> e
s the Building Fire Spri	nkled? <u>No</u> if Y	res, blueprints inclu —	oded <u><i>N/A_</i></u> Or Ex	(plain <i>N/A</i>		dea frances and a
Circle ProposedC	<u>ulvert Permit</u> or	Culvert Waiver		ermit or H		
Actual Distance of Stru	cture from Properi	ty Lines - Front_30	Side <u>40</u>	Side /	05' R	ear <u>/36 '</u>
Number of Stories <u>0</u> A	E Heated Floor	Area <u>2000 S.F</u>	Total Floor A	rea <u>31/5 S.</u>	F. Acre	age <i> -ACRE</i>
Zoning Applications ap	oplied for (Site & D	evelopment Plan, S	Special Exceptio	on, etc.) <i>N</i>	/A	
	Ja	Spot & W/)	_		
Α ο	()	,)	AL STREET	The second of the second	CONT

Columbia County Building Permit Application

CODE: Florida Building Code 2017 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.

Print Owners Name Owners Signature **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.

Contractor's License Number CGC 06063 Contractor's Signature **Columbia County Competency Card Number** Affirmed under penalty of perjury to by the Contractor and subscribed before me this 27 day of 20 20

or Produced Identification Kogaw

State of Florida Notary Signature (For the Contractor)

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

2020 Working Values updated: 1/6/2020 Columbia County Property Appraiser Parcel: (<> 02-4\$-15-00322-008 (>>) **Aerial Viewer Pictometery** Google Maps 2019 **Owner & Property Info** 2016 2013 2010 2007 **GRAHAM WHITNEY DUPREE & BLAKE WESTON GRAHAM** C/O JOSEPH L DUPREE Owner 2543 SW KOONVILLE AVE LAKE CITY, FL 32024 Site KOONVILLE AVE, LAKE CITY S 210 FT OF THE W 210 FT OF NE1/4 OF SW1/4 LYING EAST OF Description* E R/W OF CR-252A. WD 1360-1822, WD 1394-221 1.01 AC S/T/R 02-45-15 Area Use Code** VACANT (000000) Tax District *The Description above is not to be used as the Legal Description for this parcel in any legal transaction. **The <u>Use Code</u> 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. KOONVILLE **Property & Assessment Values** 2019 Certified Values 2020 Working Values There are no 2019 Certified Values \$9,612 Mkt Land (1) for this parcel Ag Land (0) \$0 Building (0) \$0 XFOB (0) \$0 \$9,612 Just Class \$0 Appraised \$9,612 SOH Cap [?] \$0 Assessed \$9,612 Exempt \$0 county:\$9,612 city:\$9,612 Total Taxable other:\$9,612 school:\$9,612 Sales History Sale Date Sale Price **RCode** Book/Page Deed V/I Quality (Codes) 9/9/2019 \$100 1394/0221 WD 11 **▼** Building Characteristics **Bldg Sketch** Bldg Item Year Blt Base SF Actual SF Bldg Desc* Bldg Value NONE **▼ Extra Features & Out Buildings** (Codes) Code Year Blt Value Units Dims Condition (% Good) NONE ▼ Land Breakdown **Land Code** Desc Units Adjustments Eff Rate Land Value 000000 VAC RES (MKT) 1.010 AC 1.00/1.00 1.00/1.00 \$9.517 \$9,612

columbia.floridapa.com/gis/

Columbia County Property Appraiser | Jeff Hampton | Lake City, Florida | 386-758-1083

by: GrizzlyLagic.com

THIS INSTRUMENT PREPARED BY AND RETURN TO:

MARLIN M. FEAGLE, ESQUIRE MARLIN M. FEAGLE, ATTORNEY AT LAW, P.A. 153 NE Madison Street Post Office Box 1653 Lake City, Florida 32056-1653 Florida Bar No. 0173248

The preparer of this instrument has performed no title examination nor has the preparer issued any title insurance or furnished any opinion regarding the title, existence of liens, the quantity of lands included, or the location of the boundaries. The names, addresses, tax identification numbers and legal description were furnished by the parties to this instrument.

Affactmet "A"

Inst: 201912020962 Date: 09/09/2019 Time: 3:22PM

Page 1 of 2 B: 1394 P: 221, P.DeWitt Cason, Clerk of Court Colum

County, By: BD

Deputy ClerkDoc Stamp-Deed: 0.70

WARRANTY DEED

WITNESSETH:

That said Grantor, for and in consideration of the sum of **TEN AND NO/100** (\$10.00) **DOLLARS**, and other good and valuable considerations to said Grantor in hand paid by said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee, and Grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

The South 210.00 feet of the West 210.00 feet of the NE 1/4 of the SW 1/4 Section 2, Township 4 South, Range 15 East in Columbia County, Florida lying East of the Easterly right of way line of County Road 252 A (Koonville Road). Containing 1.01 acres

Tax Parcel No.: 02-4S-15-00322-003 (Parent Parcel)

SUBJECT TO reservations easements and exceptions of record, if any.

N.B. Grantee Whitney Dupree Graham is Grantor's daughter.

TOGETHER WITH all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of

said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2018.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered

in the presence of;

Witness Signature

MARIN Fearl

Witness Signature

Terri B. Brown

Print or type name

TERRYS. SROWN Combilisian (L) G 132685

Expires August 30, 2021

Bonded Thru Troy Fain Insurance 800-385-7019

STATE OF FLORIDA COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this _ 2019, by **JOSEPH L. DUPREE** who is personally known to me.

__day of September,

Notary Public, State of Florida

My Commission Expires:

OSEPH L. DUPREE

8/30/2021

(SEAL)

2

SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT# 49986	JOB NAME	Graham	

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 <u>REQUIRED</u> 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	Print Name Marc Mattlews Signature Mull	Need Lic
	Company Name: Matthus Elector LLC	= Liab = W/C
cc# <u>76</u>	License #: EC 1300 5459 Phone #: 386-344-2029	⊒ EX ⊒ DE ®
MECHANICAL/	Print Name Harry Mosele & Signature Hurs Mouley	Need Lic
A/C	Company Name: Dayry 15 Heating + AC LAC	I ilab I W/C
cc# <u>327</u>	License #: <u>RA00303/6</u> Phone #: <u>346-752-2308</u>	EX EX
PLUMBING/	Print Name Ronald Coch Can Signature 182121	Need I Lic
GAS V	Company Name: Cortican Plumbing Strving LLL	I Liab
cc#1724	License #: CF1147 9154 Phone #: USED 208 - SUSC	E EX
ROOFING	Frint Name Robert Fessel Signature Robert Found	Need Lic
	Company Name: Robbies Roofing	= Uab
cc# 202	License #: RC 24027319 Phone #: (386) 755-5137	= W/C
		_ 05
SHEET METAL	Print NameSignature	Need - Lie
SHEET METAL	Print Name Signature Company Name:	□ Lic □ Liab
SHEET METAL CC#	Company Name:	□ Lic □ Liab □ W/C □ EX
	Company Name:	C Lic Liab W/C EX DE Need
CC#	Company Name:	Lic Liab W/C EX DE Need Lic Liab
CC#FIRE SYSTEM/	Company Name:	Lic Liab W/C EX DE Need Liab Liab W/C EX EX
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CC# FIRE SYSTEM/ SPRINKLER CC#	Company Name: License #: Phone #: Print Name Signature Company Name: Phone #: License#: Phone #: Print Name Signature Company Name:	Lic
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CC# FIRE SYSTEM/ SPRINKLER CC# SOLAR CC# STATE	Company Name:	Lic Liab Liab Lic DE Need Lic Liab Liab Lic Liab Lic Liab Lic

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

District No. 1 - Ronald Williams District No. 2 - Rocky Ford District No. 3 - Backy Nash District No. 4 - Toby Witt District No. 5 - Tim Murphy



Board of County Commissioners • Columbia County

Address Assignment and Maintenance Document

To maintain the county wide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for addressing and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Services Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County

Date/Time Issued:

1/27/2020 7:25:15 PM

Address:

2723 SW KOONVILLE Ave

City:

LAKE CITY

State:

FL

Zip Code

32024

Parcel ID

00322-008

REMARKS: Address for proposed structure on parcel.

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION AND ACCESS INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION AND/OR ACCESS INFORMATION BE FOUND TO BE IN ERROR OR CHANGED. THIS ADDRESS IS SUBJECT TO CHANGE.

Address Issued By:

Signed:/ Matt Crews

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

263 NW Lake City Ave., Lake City, FL 32055 Telephone: (386) 758-1125
Email: gis@columbiacountyfla.com

NOTICE OF COMMENCEMENT

Tax Parcel Identification Number:

02-45-15-00322-008

Clerk's Office Stamp

Inst: 202012003251 Date: 02/10/2020 Time: 10:10AM Page 1 of 1 B: 1405 P: 718, P.DeWitt Cason, Clerk of Court Colur County, By: BD Deputy Clerk

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

D Sc

Description of property (legal description): The south 210.00 feet of the West 210.00 of the NE ¼ of the SW ¼ Section @ Township 4 South, Range 15 East in Columbia County, Florida Lying East of the Easterly right of way line of County Road 252A. a) Street (job) Address 2723 SW Koonville Ave. LAKE CITY FL. 32024
2 General description of improvements: RESIDENTIAL CONSTRUCTION
3 Owner Information or lessee information if the lessee contracted for the improvements: a) Name and address: Blake and Whitney Graham.
b) Name and address of fees impletitle holder (if other than owner) N/A c) Interest in property; N/A
4 Contractor Information
a) Name and address: <u>COLUMBIA CONSTRUCTION & MAINTENANCE 406 SW THERESA CT. LAKE CITY, FL 32025</u> b) Telephone No.: <u>386-867-5697</u>
5. Surety Information (if applicable, a copy of the payment bond is attached):
a) Name and address: N/A b) Amount of Bond:
c) Telephone No.:
6 Lender
a) Name and address; N/A b) Phone No
7. Person within the State of Florida designated by Owner upon whom notices, or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:
a) Name and address: J.L. DUPREE 2563 SW Koonville Ave. LAKE CITY, FL.32024
b) Telephone No.:386-867-5697
8 In addition to himself or herself, Owner designates the following person to receive a copy of the lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: a) Name: N/A
9 Expiration date of Notice of Commencement (the expiration date will be 1 year from the date of recording unless a different date is specified):
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713. 13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. FYOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.
STATE OF FLORIDA
COUNTY OF COLUMBIA 10. COLUMBIA
Signature of Owner or Lessee, or Owner's or Lessee's Authorized Office/Director/Partner/Manager
Blake Weston Graham Owner
Printed Name and Signatory's Title/Office
The foregoing instrument was acknowledged before me, a Florida Notary, this 27th day of January 2020 by:
Blake Graham as Onner for
(Name of Person) (Type of Authority) (name of party on behalf of whom instrument was executed)
SHOW BUANDON IN DECAR
Personally, Known OR Produced Identification Type SHANNON M REGAR
Notary Signature Shamoo Mogal Notary Stamp or Seal: EXPIRES November 30, 202
-

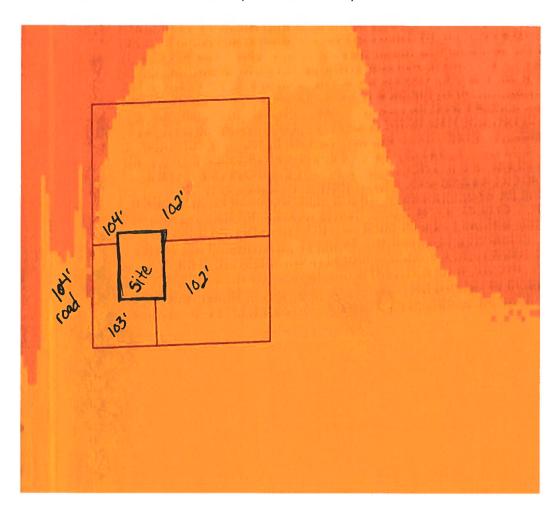


Legend

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Wed Feb 12 2020 15:22:27 GMT-0500 (Eastern Standard Time)



Parcel Information

Parcel No: 02-4S-15-00322-008

Owner: GRAHAM WHITNEY DUPREE &

Subdivision:

Lot:

Acres: 1.01219165 Deed Acres: 1.01 Ac

District: District 2 Rocky Ford Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

Parcels

2018Aerials

Roads

Roads

others
Dirt

Interstate

Main

Other

Paved

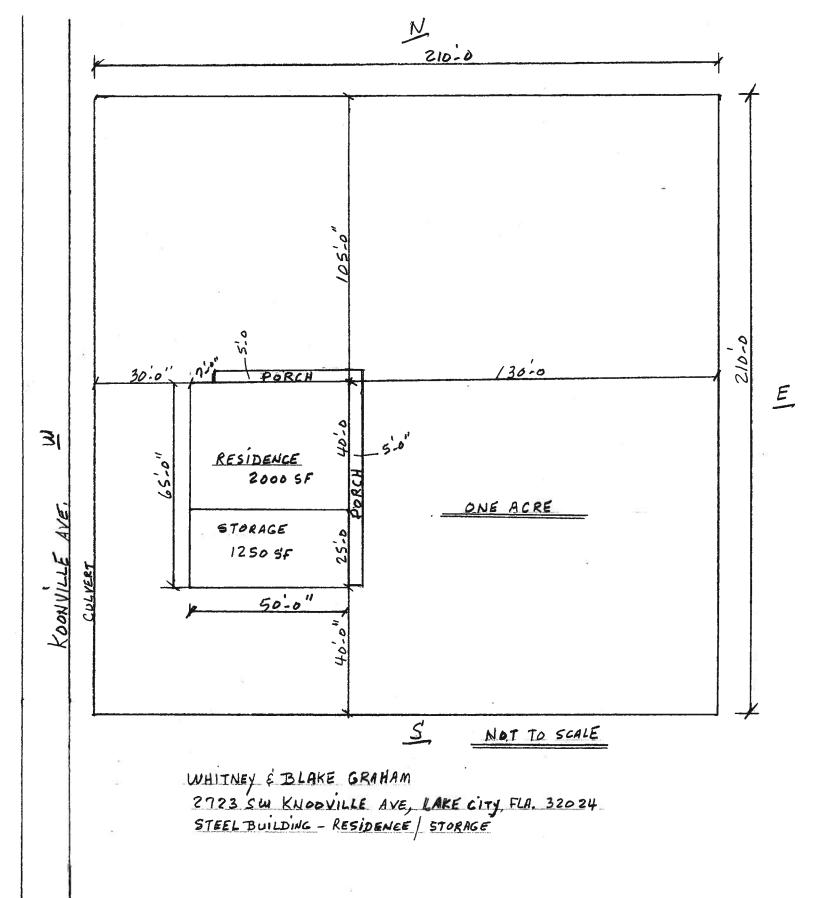
Private

2018 Flood Zones

0.2 PCT ANNUAL CHANCE A

E

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 implies 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.



Inst: 201912027953 Date: 12/02/2019 Time: 1:28PM Page I of 2 B: 1400 P: 390, P.DeWitt Cason, Clerk of Court Colur County, By: KV Deputy Clerk

FAMILY RELATIONSHIP AFFIDAVIT

STATE OF FLORIDA COUNTY OF COLUMBIA

COONTI	OF GOLUMBIA
Ubeta intended Member	the Owner of the parent parcel which has been subdivided for and the Owner, the Immediate Family Member of the Owner, which is for the Immediate Family Members primary residence use. The Immediate Family is related to the Owner as Both individuals being sworn according to law, depose and say:
	fiant acknowledges Immediate Family Member is defined as parent, grandparent, ep-parent, adopted parent, sibling, child, step-child, adopted child or grandchild.
	oth the Owner and the Immediate Family Member have personal knowledge of all atters set forth in this Affidavit.
Co	ne Owner holds fee simple title to certain real property situated in Columbia bunty, and more particularly described by reference with the Columbia County operty Appraiser Parent Tract Tax Parcel No.
div pa	re Immediate Family Member holds fee simple title to certain real property vided from the Owners' parent parcel situated in Columbia County and more rticularly described by reference to the Columbia County Property Appraiser x Parcel
No	0.322-008
5. No	person or entity other than the Owner and Immediate Family Member to whom

- 5. No person or entity other than the Owner and Immediate Family Member to whom permit is being issued, including persons residing with the family member claims or is presently entitled to the right of possession or is in possession of the property, and there are no tenancies, leases or other occupancies that affect the property.
- 6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for an Immediate Family Member being in compliance with the density requirements of the Columbia County's Comprehensive Plan and Land Development Regulations (LDR's).
- 7. This Affidavit and Agreement is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

We Hereby Certify that the facts represented by us in this Affidavit are true and correct and we accept the terms of the Agreement and agree to comply with it.

owner -	Immediate Family Member
To sepl L D. Pree Typed or Printed Name	Whitney Graham Typed or Printed Name
by Juseph L Dufre (Owner	ed) before me this / day of October, 2019, er) who is personally known to me or has produced lentification.
Notary Public	LAURIE HODSON MY COMMISSION # FF 978102 EXPIRES July 14, 2020 Bonded Thru Notary Public Underwriton
Subscribed and sworn to (or affirm by Whitney Grahem (Family produced	ed) before me this 1st day of Oct , 2019, who is personally known to me or has as identification.
Shannon M Regar Notary Public	٥
SHANNON M REGAR MY COMMISSION # GG048931 EXPIRES November 30, 2020	APPROVED: COLUMBIA COUNTY, FLORIDA By: 4 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Name: Liza Williams

Title: Planning Technician





STATE OF FLORIDA DEPARTMENT OF HEALTH ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

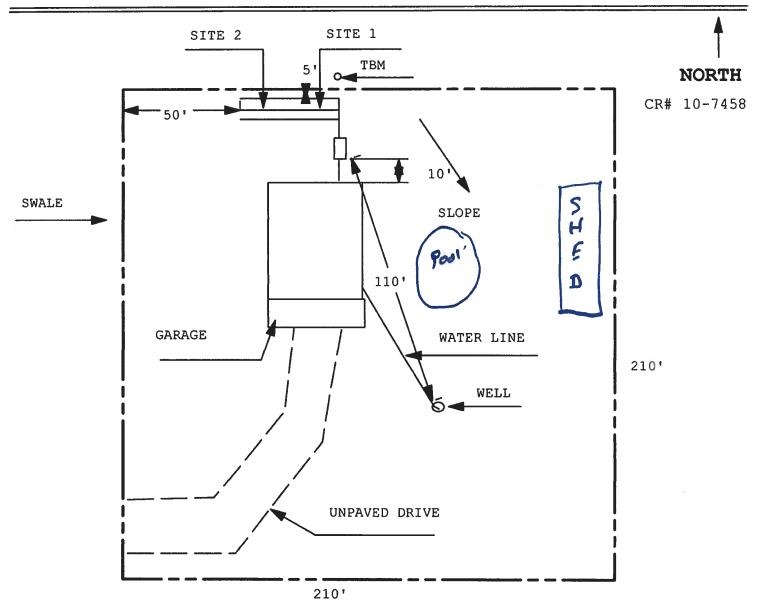
PERMIT NO. 30 - 004	,3
DATE PAID: 13	120
FEE PAID:	2D
RECEIPT #:\ \	(२5

15/6	1	SYSTEM	ſ	E TREATME				RECEIPT		43335
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	Repair			bandonment		1	Temporary	, []	IIIIOVA	.cive
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	Short.		SECT - 10 (1922-1931)						(000) 02	0-10-12
MAIL	ING ADDR	ESS: 180	SW SLAS	H LN		=====	LAKE C	ITY	FL	32024
BY A APPLI	PERSON I	LICENSED RESPONSII	PURSUAN BILITY T	T TO 489.10 O PROVIDE D	5(3)(m) COCUMENTAT	R 48	ED AGENT. SY 9.552, FLORID OF THE DATE T ATUTORY GRAND	A STATUT	ES. IT	IS THE TED OR
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PROPE	ERTY SIZ	E: 1.010	ACRES	WATER SUPP	LY: [X]	PRIV	ATE PUBLIC []<=200	OGPD []>2000GPD
IS SE	WER AVA	LABLE AS	S PER 38	1.0065, FS?	[NO]	DIST	ANCE TO	SEWER:	N/A FT
PROPE	ERTY ADD	RESS: 254	3 SW KO	ONVILLE AVE	LAKE CITY	<u> </u>				
DIREC	CTIONS TO	PROPERT	Y: 90 W	VEST, PAST I-7 . SITE IS APP.	75. TURN LE 1/2 MILE O	FT O	N PINE MT. RD T	URN RIGH	IT ON KO	ONVILLE
BUIL	ING INF	ORMATION	[X]	RESIDENTIA	r [] c	OMME	RCIAL			
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_	HOUSE			3	2,00	0				
2										
3										
4										
[]	Floor/E	quipment	Prains	() Other	(Specif	y)				
SIGNA	TURE:	Kin V	K	Parl				ישייערי.	,/-	/

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

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number:

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



NO WELLS WITHIN 100'

1 INCH = 40 FEET

Site Plan Submitted By Con Lengt Plan Approved Not Approved		Date //20/20
Plan Approved / Not Approved	Date	1/28/20
By Sem Offin BI		Columbia CPHU
Notes:		

A&B Well Drilling, Inc.

5673 NW Lake Jeffery Road Lake City, FL 32055 Telephone: (386) 758-3409 Cell: (386) 623-3151 Fax: (386) 758-3410 Owner: Bruce Park

February 14, 2020

To: Columbia County Building Department

Description of Well to be installed for Customer _Blake Graham_____

Located @ Address: ___Koonville Rd, Lake City FL______

1.5 HP 20 GPM submersible pump, 11/4" drop pipe, 85 gallon captive tank, and backflow prevention. With SRWMD permit.

Brace Park _____

Sincerely,
Bruce N. Park

President



COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2017 EFFECTIVE 1 JANUARY 2018

AND THE NATIONAL ELECTRICAL 2014 EFFECTIVE 1 JANUARY 2018

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT FLORIDA BUILDING CODES RESIDENTIAL AND THE NATIONAL ELECTRICAL CODE. ALL PLANS OR DRAWINGS SHALL PROVIDE CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS, FBC 1609.3.1 THRU 1609.3.3.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FLORIDA BUILDING CODE FIGURE 1609-A
THROUGH 1609-C ULTIMATE DESIGN WIND SPEEDS FOR RISK CATEGORY AND BUILDINGS AND OTHER STRUCTURES
Revised 7/1/18

		GENERAL REC	ntyfla.com/BuildingandZoning.asp DUREMENTS: PLICABLE BOXES BEFORE SUBMITTAL		Each B Cir Ap	to Inclu Box shal rcled as plicable	l be
				Selec	et Fron	n Drop	down
8	Two (2) complete sets of plan	s containing the fo	llowing:	V			
2	All drawings must be clear, c	oncise, drawn to sc	ale, details that are not used shall be marked void	V		ing of the land	
3	Condition space (Sq. Ft.)	2000 SF	Total (Sq. Ft.) under roof 3715 S.F	Ye	s	No	NA

4	Dimensions of lot or parcel of land	- 1		
5	Dimensions of all building set backs	- /	agenture (a)	propriesely
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.	- 1		
7	Provide a full legal description of property.	. /	DESCRIPTION	E \$100.583

Wind-load Engineering Summary, calculations and any details are required.

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable			
8	Plans or specifications must show compliance with FBCR Chapter 3	Yes	No	NA		
QKQ	Select From Drop down					
9	Basic wind speed (3-second gust), miles per hour					
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)			V		
11	Wind importance factor and nature of occupancy	-/				
12	The applicable internal pressure coefficient, Components and Cladding			1		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.			-		
Ele	evations Drawing including:					
14	All side views of the structure	- V				
15	Roofpitch		Plane			
16	Overhang dimensions and detail with attic ventilation	- V	18 Par			
17	Location, size and height above roof of chimneys	- 1	PER PROPERTY			
18	Location and size of skylights with Florida Product Approval		1			
19	Number of stories	- 1				
20	Building height from the established grade to the roofs highest peak					

Floor Pl an Including:

21	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies	- /		
22	Raised floor surfaces located more than 30 inches above the floor or grade	-	-	
23	All exterior and interior shear walls indicated	-1	127 (186 52)	
24	Shear wall opening shown (Windows, Doors and Garage doors)	- /		0.000
25	Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass.	-		
26	Safety glazing of glass where needed		PIGIT !	1
27	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR)			
28	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails			~
29	Identify accessibility of bathroom (see FBCR SECTION 320)	- 1		Table 1

All materials placed within opening or onto/into exterior walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

		A Company of the Control
Select	t From	Drop do
-1		3801 (1537)
		/
-4.		-
s -		155
- V	PAYE I In	
/		
ŀ	/	/

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

39 Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

FIG	oor Framing System: First and/or second story			
40	Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer	-/		
41	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers			
42	Girder type, size and spacing to load bearing walls, stem wall and/or priers	- X		
43			1	1
44	Wind load requirements where applicable	-/		
45	Show required under-floor crawl space			-
46	Show required amount of ventilation opening for under-floor spaces			V
47	Show required covering of ventilation opening			1
48	Show the required access opening to access to under-floor spaces		500 M C C S	1
49	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			
	Show Draftstopping, Fire caulking and Fire blocking	280	. 107 = A. 170	-
51			1 2011/19/00	1
	Provide live and dead load rating of floor framing systems (psf).	Dia All Sin		
34	Provide five and dead load facing of floor framing systems (psr).	<u> </u>	<u> </u>	1
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION			
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each I	to Inclusion to Inclusion to Including the Including the Inclusion to Including the Inclusion to	ll be
		elect from	m Dro	p dow
53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	- /		10000
54	Fastener schedule for structural members per table FBC-R602.3.2 are to be shown	- /		6.000
55	Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing			
	Show all required connectors with a max uplift rating and required number of connectors and			
56	oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems		-	
57	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBC-R602.7.	- /		
58	Indicate where pressure treated wood will be placed	- /		
59	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas		~	
60	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail		100	1331111
FE	BCR :ROOF SYSTEMS:			
61	Truss design drawing shall meet section FBC-R 802.10.1 Wood trusses			1
62	Include a layout and truss details, signed and sealed by Florida Professional Engineer		200	-
63	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	-	EVIORE	1-
64	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	•		-
65	Provide dead load rating of trusses		Section 1	1
F	BCR 802:Conventional Roof Framing Layout			
66			12/01/05	1
67			THE WA	11
	Valley framing and support details			/
69	Provide dead load rating of rafter system		18 // 18	
-	BCR 803 ROOF SHEATHING			
70	Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness	- /		
71	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	SETS AND SET		10754760

ROOF ASSEMBLIES FRC Chapter 9

72	Include all materials which will make up the roof assembles covering	BWB03	/
73	Submit Florida Product Approval numbers for each component of the roof assembles covering		V

FBCR Chapter 11 Energy Efficiency Code for Residential Building

Residential construction shall comply with this code by using the following compliance methods in the FBCR Chapter 11 Residential buildings compliance methods. Two of the required forms are to be submitted, N1100.1.1.1 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form 600A, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Items to Include- Each Box shall be Circled as Applicable				
	$_{ m M}$	elec	ct fron	Drop	Down		
74	Show the insulation R value for the following areas of the structure	-	1	(GOLDES)	izuta ii		
75		-	~	Line Feel	September 1		
76	Exterior wall cavity	-	~		+11/3°- eu		
77	Crawl space	Ŀ	4 6 18 5				
H	VAC information						
78	Submit two copies of a Manual J sizing equipment or equivalent computation study	-			Adjec is		
79		-	1				
80	Show clothes dryer route and total run of exhaust duct	-	0:47		BASTA!		
Pli	ımbing Fixture layout shown		NY B				
81	All fixtures waste water lines shall be shown on the foundationplan	T-	V	v== ((500)	SANTER SAN		
82		-	-	4			
_	ivate Potable Water						
	Pump motor horse power	-	100				
	Reservoir pressure tank gallon capacity	-					
85	Rating of cycle stop valve if used	-	all muliarity				
Ele	ectrical layout shown including						
86	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	-	V		100		
87	Show all 120-volt, single phase, 15- and 20-ampere branch circuits outlets required to be protected by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A		/	rage Silver Fulktion			
88	Show the location of smoke detectors & Carbon monoxide detectors	-					
89	Show service panel, sub-panel, location(s) and total ampere ratings	E					
90	On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.						
	For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an Grounding electrode system. Per the National Electrical Code article 250.52.3		_				
91		-					
92	Show all 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed Combination arc-fault circuit interrupter. Protection device.						

Notice Of Commencement:

A notice of commencement form RECORDED in the Columbia County Clerk Office is required to be filed with the Building Department BEFORE ANY INSPECTIONS can be performed.

集团就对新国民的支援与人类的特殊的发生的发展和关系的发生的特殊的发展的影响的发展。 对于1000年的影响,对于1000年的影响。	Items to Include-
GENERAL REQUIREMENTS:	Each Box shall be
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Circled as
20. 20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1	

ITEMS 95, 96, & 98 Are Required After APPROVAL from the ZONING DEPT. Select from Drop down Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed. 94 Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com. 95 Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058 -City of Lake City A City Water and/or Sewer letter. Call 386-752-2031 96 97 Toilet facilities shall be provided for all construction sites Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit. 99 Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations (Municode.com) CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required. 101 A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00 **Driveway Connection:** If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size 102 and length of every culvert before instillation and completes a final inspection before permanent power is granted. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00) Separate Check when issued. If the project is to be located on an F.D.O.T. maintained road, then an F.D.O.T. access permit is required. 911 Address: An application for a 911 address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.

Ordinance Sec. 90-75. - Construction debris. (e) It shall be unlawful for any person to dispose of or discard solid waste, including construction or demolition debris at any place within the county other than on an authorized disposal site or at the county's solid waste facilities. The temporary storage, not to exceed seven days of solid waste (excluding construction and demolition debris) on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance, shall not be deemed a violation of this section. The temporary storage of construction and demolition debris on the premises where generated or vegetative trash pending disposition as authorized by law or ordinance shall not be deemed in violation of this section; provided, however, such construction and demolition debris must be disposed of in accordance with this article prior to the county's issuance of a certificate of occupancy for the premises. The burning of lumber from a construction or demolition project or vegetative trash when done so with legal and proper permits from the authorized agencies and in accordance with such agencies' rules and regulations, shall not be deemed a violation of this section. No person shall bury, throw, place, or deposit, or cause to be buried, thrown, placed, or deposited, any solid waste, special waste, or debris of any kind into or on any of the public streets, road right-of-way, highways, bridges, alleys, lanes, thoroughfares, waters, canals, or vacant lots or lands within the county. No person shall bury any vegetative trash on any of the public streets, road right-of-way, highways, bridges, lanes, thoroughfares, waters, canals, or lots less than ten acres in size within the county.

Mi 3540

FLAUGE FLORIDA PRODUCT APPROVALS 10-16-15

FL 186 -44.3

FL186.443

5-17-16

ler Over SF. blan

15/87,

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 flush blued
	,	6'8' Fib- 6/12/2018/08	FL 17347
Windows:	MI	Aluiminum 185 Single Hung	FL-17499
		Aluiminum 185 Picture Window	FL-15349
	\$ 53°x50	1' 3580 Horstider	FL-13349.2
Jinks (was flavore	Vinyl 3540 Single Hung	FL-17676-R1
e tinks	Per Jason	Vinyl 3500 Picture Window	FL-18644
	Atram	150/160	FL-11834
	Magnolia	Vinyl 400 Single Hung	FL-16475-R3
		Vinyl 400 Picture Window	FL-16474-R2
5-16	63"X44"	400 Har's lider	FL 16476.1
Soffit:	Kaycan	Vinyl/PVC & Aluminum Soffit	FL-16503
·		Vinyl Siding	FL-15867-R1
<u> </u>			(20)
Underlayment:	Woodland	30# Felt .	FL-17206-R3
1 2		•	
Roofing:	Certainteed	Asphalt Shingles	FL-5444
	GAF	Asphalt Shingles	FL-10124-R16
	Tamko	Asphalt Shingles	FL-18355
	Certantee	FINTLASTIC SBS DAIP	N-167091
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	H. dia	5V Roofing Master Rib Roofing	FL-9555-R3 FL-9557-R3

1-7-16

Haidie Ce Union

Centlank

13192.1

RESIDENTIAL HEATING AND COOLING REQUIREMENTS*

HVAC WORKSHEET FOR WATT-WISE LIVING

Page 1

HEATING AND COOLING REQUIREMENTS DUE TO GLASS AREA

DESIGN TEMPERATURE DIFFERENCE

DUE TO GLASS AF	/30	30°/35°/40°/45°/50°/						
WINDOWS & GLASS DOORS	AREA SQUARE FEET	HEATING MULTIPLIER (CIRCLE ONE)					HEATING (BTUH LOSS)	
Glass Doors, Infiltration less than 1.0 CFM/FT		-					LU33)	
Single Glass		50	60	77.0	127 11			
Double Glass Other Sliding Glass Doors		40	60	70	75	85		
		40	45	50	55	60	DECEMBER 1	
Single Glass		75	85	100				
Double Glass Windows Infiltration In the state of the sta		60	70	100	115	125		
Windows, Infiltration less than 0.50 CFM/FT	and the last the territory and the same of	- 00	10	80	90	100		
Single Glass		40	50		20		Seattle Control	
Double Glass	100	25	-	55	60	70		
Windows, Infiltration less than 0.75 CFM/FT		25	30	35	40	45	3500	
Single Glass		15						
Double Glass Other Windows		30	50	60	65	75		
Single Glass Double Glass Fixed or Picture Windows	13	30	35	40	45	50		
Double Glass	151	75	90	105	115	120		
Fixed or Picture Windows	DIN	60	70	80	90	130		
Single Glace					- 00	103		
Double Glass	TE STATE OF THE ST	40	50	55	60	70		
Other The Samuel Control of the Cont		25	30	35	40	45		
Other Total BTUH Loss (Enter on Line 2, Page 2)		1	1 1		70	70		
The straige 2, rage 2)	100		933				3500	

WINDOWS	AREA			(OOL	ING	MUL	TIPLI	ER (CIRC	LEI			
& GLASS DOORS	SQUARE		SI	NGL	EGL	ASS					EGL	000		COOLING
GENOS DOCHS	FEET		90°		T	950			900		1 01	-		(BTUH
No Shading		C	T	R	C	TT	R	C	TT	R	C	95°	R	GAIN)
N	30	-				10 20		10000		-	1	+-	n	
NE & NW	- 1 30	30	22	20	30	26	25	20	14	13	25	17	10	C 0 =3
E & W		60	41	36	65	45	41	50	29	24	50	-	16	900
SE & SW	70	85	60	53	90	64	57	70	44	36	75	32	27	-x(2-11)8
S		75	51	45	80	55	50	60	37	30	65	47	39	5250
Draperies or Blinds	0	45	31	28	50	35	33	35	21	18	-	40	33	
						+	1	100	121	10	40	24	21	0
N		20	17	16	25	21				-		3 ⁹ (c)		
NE & NW		35	33	30	40	-	20	15	11	11	20	14	14	
E&W		55	48	43	-	37	34	30	22	21	35	25	24	3 7 7 7 7 7 7 7 7
SE & SW		45	-	·	55	52	47	45	32	30	50	35	33	
S		-	39	35	50	43	39	40	26	25	40	29	28	
Roller Shades		30	26	24	30	30	28	25	17	16	25	20	19	
N	The state of the s	-					To F	jil						
NE & NW	nakandandanap 🕳 har-pirya é dapah kang-digapi asadipada ya Grany meginpenghilipada nagan depan	25	19	17	25	23	22	20	12	11	20	15	14	
E&W		45	36	32	50	40	37	40	26	22	45	29		
SE & SW	Name	65	53	47	70	57	51	55	37	32	60		25	
S		55	44	39	60	48	44	50	32			40	35	
Awnings, Porches, Etc.	A sales of the sal	35	28	25	40	32	30	30		27	50	35	30	- 122 - 2
		1					30	30	20	16	35	23	19	
All Directions Other		25	22	20	30	200								
		-	44	20	30	26	25	15	14	13	20	17	16	
Total BTUH Gain (Line 2, Page 2)	100		3/6.5%	2015	Secretary of	100 XXXII							17	
The second section of the section			16000		d.	1870			200	7		X 200	-	6150

Prepared By: Heary Houselly

REQUIREMENTS	COOLING	TOTAL HEATING AND
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9062										T		x 1.3 = Total BTUH Gain	- 30		
7586			7-1-1				229			7	***************************************	Subtotel BTUH Gain			
*		0.	17191							773		Total BTUH Loss			
7	9/					BY0.						bigiA .nl &f	-		
602	-	I.	29/21			Ot.						Z In. Flex, or 1 In. Rigid			
308	22.000.00	8287000					KORUKS	00500000	*			Duct BTUH Loss & Gain			
017			· · · · · · · · · · · · · · · · · · ·									Sensible BTUH Gain			
145			19961									People @ 300 & Appl. @ 1200			
	22002000		DIDI	200	<u> </u>							letotdu2			
	0	0		97	St	04	07	32				Other			
		-		7	3,	UV	UP	36	Perimeter Ft.			No Edge Insulation	-		
							-		17 -44 mined			Floor, Concrete Slab	-		
1957	0.18.1	6. 1.1	11952	9.1	b 'l	5.1	1.1		5661	TJ	Va	Other	_		
		1 8.1	11/20	8.1	9.1	4.1	1.3	1.1	2001	17	DK DK	noiseluani 06-A	_		
	9'19'1	0.18.1		2.1	6.1	LI	8.1	1.2		17	DK	noitsluzni SS-A noitsluzni ƏS-A	-		
	21.5	3.1 3.1		2.4	2.2	6.1	LI	3.1		17	DK	noiseluzul e1-A			
		2.5 2		3.9	3.5	3.2	2.8	2.4		17	DK	R-17 Insulation	-		
	3.8 01	4 6		30	27	54	51	81		17	OK	No Insulation	-		
										10		Ceiling under attic	-		
21-1				100/2								Other	-		
98/7	2.8	2	4948	3	2.5	. 7	LI	5.1	2841			Frame, R-14 Insulation	-		
	3.0	2.5	4	Þ	3	.3	7	7				noitsluant ff-A , amara "	-		
	0.7.	8.8	1	13	11	01	6	8				Frame, No Insulation	1		
	3.5	2.5		9	9	9	G	Þ				CBS Furred, R-5 Insulation	1		
	8.6	7.2		L	9	9	9	Þ				CBS Furred, R-4 Insulation	H		
	4.2	3.0		8	8	1.	9	9				C8S Furred, R-3 Insulation	H		
	0.8	9.4		bl	13	12	10	6		CBS Furred, No Insulation					
	Alexander of	1000		2000						Other Net Exterior Wells					
	10.0	0:4					100								
	0.8	4.3		113	101	06	64	89				R-5 Insulation, weatherstripping			
296	13.0	0.01	0515	502	185	191	144	123			bu	R-5 Insulation, No weatherstrippi	I		
E. U	13.0	0.01	1021-	150	110	96	98	07	128	1		Weatherstripped			
	000000	0 01		ADDA FOR SOME	500	081	091	135				No weatherstripping	L		
	897538383				1914 1	267.22	1.00	10000		ļ		Doors (Excluding glass)	L		
	2.5	2.0		-	-	-	-			ļ		Other			
	3.5	2.5		b	7	3	3	5				Finished 2 sides, R-11	L		
	0.9	9.4		91	9	15	9	b		-		Finished 2 sides, R-5	1		
	0.01	8.8		28	52	22	61	6		-		Finished 2 sides, No Insulation	1		
		110000		100000	3000	2000	1977.75				-	Partitions, Frame Finished 1 side, No Insulation	1		
2519		•	6026		1	1	1	1	991	-		Glass Area (From page 1)	+		
									9881	1		Gross Wall Area	+		
(NIAD	(37	CIBC	(SSO)		IDNI	O BTC	nuo)			†			10		
нота)		INW	HUT8)						FEET			MЭTI	15		
СООГІИС		COOF	DNITA3H			IJ9IT.			SOUARE	1		MARTI	15		
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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.
	Mandatory Requirements (five pages)
Red	quired 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)
	COUNTY BUILDING Received OFFILE COUNTY BUILDING

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Graham Residence Street: City, State, Zip: , FL , Owner: Graham Design Location: FL, Gainesville	Builder Name: Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) 7. Windows(90.0 sqft.) 8. U-Factor: 90.00 ft²	9. Wall Types (1440.0 sqft.) a. Frame - Wood, Exterior b. Frame - Wood, Adjacent c. N/A d. N/A d. N/A 10. Ceiling Types (1975.0 sqft.) b. N/A c. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Garage 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems a. Electric b. Conservation features None 15. Credits 15. Credits 16. Insulation Area R=19.0 400.00 ft² R=10.0 400.00 ft² R=10.0 400.00 ft² R=10.0 400.00 ft² R=10.0 400.00 ft² R=19.0 400.00 ft² R=10.0 400.0 ft² R=10.0
Glass/Floor Area: 0.046 Total Baseline	
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: TARY GILL DATE: 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 5.55 ACH50 (R402.4.1.2).

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

				PROJEC	т							
Title: Building Typ Owner Nam # of Units: Builder Nam Permit Office Jurisdiction: Family Type New/Existing Comment:	e: Graham 1 ne: e: Single-family	е	Bedrooms: Conditioned Total Storied Worst Case Rotate Ang Cross Vent Whole Hou	es: 1 e: Y lle: 0 ilation:	975 'es		Lot # Block PlatB Stree Coun	:/Subdivis look: lt:	sion: Co	eet Addre	SS	
			=	CLIMAT	E							
V .	Design Location	TMY Site		Des 97.5	ign Temp % 2.5 %		esign Tem er Summ		eating ree Days	Design Moisture	-	Temp
	FL, Gainesville Fl	L_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	Me	edium
				BLOCK	S							
Number	Name	Area	Volume									
1	Block1	1975	16787.	5								
				SPACES	S							
Number	Name	Area	Volume P	(itchen C	ccupants	Bedroo	ms Ir	nfil ID	Finished	Cool	ed	Heate
1	Main	1975	16787.5	Yes	3	3	1		Yes	Yes		Yes
				FLOOR	S							
√ #	Floor Type	Space	Perir	neter R	-Value	Area				Tile Wo	od Ca	rpet
1	Slab-On-Grade Edge Ins	ulatio Ma	ain 179	ft		1975 ft²				0 0		1
				ROOF			<u> </u>		Yi		• • •	
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitcl (deg
1	Gable or shed	Metal	2081 ft²	328 ft²	Medium	N	0.75	No	0.9	No	0	18.
				ATTIC								
√ #	Туре	Ventila	ation	Vent Ratio ((1 in)	Area	RBS	IR	СС			
1	No attic	Vent	ed	300	1	975 ft²	N	1	N			
				CEILING	3							
√ #	Ceiling Type		Space	R-Value	Ins Ty	pe	Area	Fran	ning Frac	Truss	Туре	
1	Under Attic (Vente	d)	Main	30	Blown		1975 ft²		0.11	Wo		

ĺ	F	0	R	M	R4	05	-20	11	7

INPUT SUMMARY CHECKLIST REPORT

					,		SUMMA		ALLS							
V	/ # (Ornt_		djace To		Туре	Space	Cavity	Wid Et	dth ln	Height	Area_	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade ⁹
	_ 1	W	Ext	егіог	Fra	me - Wood	Main	19	40		8	320.0 ft²		0.23	0.75	0
	2	N	Ga	rage	Fra	me - Wood	Main	19	50		8	400.0 ft²		0.23	0.75	0
	3	Е	Ext	erior	Fra	me - Wood	Main	19	40		8	320.0 ft²		0.23	0.75	0
	4	S	Ext	erior	Fra	me - Wood	Main	19	50		8	400.0 ft²		0.23	0.75	0
								DC	ORS		-					
V		#		Ornt		Door Type	Space			Storms	U-Val	ue F	Width t In	Heigh Ft	t In	Area
	_	1		W		Insulated	Main			None	.16	3	3	6	8	20 ft²
		2		N		Insulated	Main			None	.16	3	;	6	8	20 ft²
		3		s		Insulated	Main			None	.16	3	3	6	8	20 ft²
						Orientation	n shown is th		DOWS		anged to W	orst Case				
	,			Vall						. (rhang			
V	#	C			Frame	Panes	NFRC	U-Factor	SHGC	lmp	Area		Separation	Int Sha	ade :	Screenin
	_ 1		W	1	Vinyl	Triple (Tinted)	Yes	0.31	0.45	N	30.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/t	olinds	None
	2		Ε	3	Vinyl	Triple (Tinted)	Yes	0.31	0.45	N	30.0 ft ²	1 ft 0 in	2 ft 0 in	Drapes/b	olinds	None
	3		S	4	Vinyl	Triple (Tinted)	Yes	0.31	0.45	N	30.0 ft²	1 ft 0 in	2 ft 0 in	Drapes/b	olinds	None
								GAI	RAGE							
V	/	#		Floor	r Area	Ceilin	g Area	Exposed 1	Wall Per	rimeter	Avg. W	/all Height	Expose	ed Wall In:	sulation	
	_	1		127	'5 ft²	127	′5 ft²	1	00 ft	-	9	9 ft		13		
								INFILT	RATIO	ON						
¥	Sco	pe		M	tethod		SLA	CFM 50	ELA	E	EqLA	ACH	ACH	H 50		
1	Wholeh	ouse	: 1	ropo	sed AC	CH(50) .(0003	1554.1	85.32	16	60.46	.1156	5.5	546		
								HEATING	3 SYS	TEM			<u> </u>	-		
V	/	#	Syst	em T	уре	S	ubtype	Speed		Efficienc	у	Capacity		1	Block	Ducts
		1	Elec	ric H	eat Pur	mp/ N	one			HSPF:8.	.2 4	8 kBtu/hr			1	sys#1
	,							COOLING	G SYS	TEM						
	<u>'</u>	#	Syst	em T	уре	S	ubtype	Subtype	•	Efficiency	Capac	city A	ir Flow S	HR I	Block	Ducts
		1	Cont	ral U	nit/	9	plit			SEER: 17	7 48 kBtu		40 cfm (0.7	1	sys#1

FORM R405-2017

INPUT SUMMARY CHECKLIST REPORT

	-				нот w	ATER SY	STEM							
\vee	#	System Type	SubType	Location	on EF	Ca	р	Use	SetPnt		Со	nservatio	n	
	1	Electric	None	Garag	e 0.93	4 0 g	al	60 gal	120 deg			None		
				S	OLAR HO	T WATER	SYST	EM						
\checkmark	FSEC Cert #	Company N	lame		System	Model #	c	Collector Model		llector \rea	Stor Volu		FEF	
	None	None								ft²	_			
				i.		DUCTS								
/	#	Sup Location F	oply R-Value Area	Locat	Return ion Area	Leakag	је Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC# Coo
	1	Attic	6 395 ft	Atti	c 98.75 ft	Default	Leakage	Garage	(Default)	(Default)			1	1
					TEM	PERATUR	RES							
Program	nable The	rmostat: Y			Ceiling Fans	s:								
Cooling Heating Venting	[] Jai [X] Ja [] Jai	n []Feb n [X]Feb n []Feb	[] Mar [X] Mar [X] Mar	Apr Apr (X) Apr	[] May [] May [] May	[X] Jun Jun Jun	(X) Jul Jul Jul	[X] Aug Aug Aug	[X] Sep [] Sep [] Sep	X) 8	ct ct ct	X Nov X Nov X Nov	$[\times]$	Dec Dec Dec
Thermosta		le: HERS 20	06 Reference			=		lours						
Schedule 1	••		1	2	3 4	5	6	7	8	9	10	11	•	12
Cooling (V	VD)	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 (V	VEH)	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 (V	VD)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	68 66
Heating (V	VEH)	AM PM	66 68	66 68	66 66 68 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66
						MASS								
Ma	ass Type			Area		Thickness		Furniture Fra	ction	Spa	се			
De	efault(8 lb	s/sq.ft.		0 ft²		0 ft		0.3		N	1ain			

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 99

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

1. New home or, addition	1. New (From Plans)	12. Ducts, location & insulation level
2. Single-family or multiple-family	2. Single-family	a) Supply ducts R 6.0 b) Return ducts R 6.0
2. Single-lannly of malapic-lannly	2. Oligie-lainily	c) AHU location Garage
3. No. of units (if multiple-family)	31	,
4. Number of bedrooms	43	13. Cooling system: Capacity 48.0 a) Split system SEER 17.0
5. Is this a worst case? (yes/no)	5. <u>Yes</u>	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. <u>1975</u>	d) Room unit/PTAC EER e) Other
7. Windows, type and area		· · · · · · · · · · · · · · · · · · ·
a) U-factor:(weighted average)	7a. <u>0.310</u>	
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.450</u>	14. Heating system: Capacity 48.0
c) Area	7c. <u>90.0</u>	a) Split system heat pump HSPF
8. Skylights		b) Single package heat pump HSPF c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE
,		f) Other 8.20
9. Floor type, insulation level:		·
a) Slab-on-grade (R-value)	9a0.0	
b) Wood, raised (R-value)	9b	15. Water heating system
c) Concrete, raised (R-value)	9c	a) Electric resistance EF 0.93
40.144.84		b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, LPG
A. Exterior:	4044 400	d) Solar system with tank EF
Wood frame (Insulation R-value) Masonry (Insulation R-value)	10A1. <u>19.0</u>	e) Dedicated heat pump with tank EF
B. Adjacent:	10A2	f) Heat recovery unit HeatRec% g) Other
Nood frame (Insulation R-value)	10B1. 19.0	g) Other
Masonry (Insulation R-value)	10B1	
_,a., (a.a.a	. • • • • • • • • • • • • • • • • • • •	16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans Yes
a) Under attic	11a. <u>30.0</u>	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	11d. <u>No</u>	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the F	orida Building Code, Ene	rgy Conservation, if not DEFAULT.
Leastify that this house has assembled with the	Elevide Duildine Onder Er	Annual Componistion through the street
saving features which will be installed (or exc		nergy Conservation, through the above energy
display card will be completed based on insta		
and the bottom based of lists	and oodo oomphant leatu	
Builder Signature:		Date:
Address of New Home:		Citv/FL Zip: . FL

Florida Building Code, Energy Conservation, 6th Edition (2017) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ΑŒ	DDRESS:	Permit Number: , FL ,
MAN	NDATORY	REQUIREMENTS See individual code sections for full details.
\checkmark		SECTION R401 GENERAL
	card be comp 553.9085, Flo residential bu dwelling unit.	gy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display leted and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section brida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold ildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and is submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
		akage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of 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.
		.1 Building thermal envelope building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. aling methods between dissimilar materials shall allow for differential expansion and contraction.
	the mai	.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with nufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the fficial, an approved third party shall inspect all components and verify compliance.
	change accorda individu an appl	.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air as 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 ance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either uals 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 roved 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 Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
	Except building	tion: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing is in which the new construction is less than 85 percent of the building thermal envelope.
	1. Exterother in 2. Dam infiltrati 3. Interid. Exter 5. Heat	testing: rior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or infiltration control measures. pers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended on control measures. ior doors, if installed at the time of the test, shall be open. rior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. ing and cooling systems, if installed at the time of the test, shall be turned off. oly and return registers, if installed at the time of the test, shall be fully open.
	tight-fitting do	eplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using nors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the ere using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	square foot (1	nestration air leakagd/Vindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per 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 A/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Except	Site-built windows, skylights and doors.

MANDATO	PRY REQUIREMENTS - (Continued)
combustion fuel room, isolated fr R402.1.2, where gasketed and ar passes through	s containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a ominiside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it conditioned space to a minimum of R-8.
Except	
1 2	
conditioned and 2.0 cfm (0.944 L	sed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than is) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sket or caulk between the housing and the interior wall or ceiling covering.
R403.1 Controls	SECTION R403 SYSTEMS
R403.1.1 The	ormostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system.
R403.1.3 Hea	at pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls ept during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
for air o	All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways listribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section .9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.
(7), Flo	phtness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or rida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in ance with Section R403.3.3.
	.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of 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 manufacture air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.
	 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:
	 A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
	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 Buildin	ng cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums.
	cal system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or c) shall be insulated to a minimum of R-3.
by sun!	.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused ight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the I. Adhesive tape shall not be permitted.
☐ accorda	.1 Heated water circulation and temperature maintenance systems (Mandatory)Heated water circulation systems shall be in ance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Itic 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.

times when heated water is used in the occupancy.

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

M/	ANDATORY 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 ½ 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:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and 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:
	 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.
	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.
	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.

When tested in accordance with HVI Standard 916

NDATORY 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 AHRI 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:
 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:
 A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 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). be in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas shall
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:
Where public health standards require 24-hour pump operation.
Pumps that operate solar- and waste-heat-recovery pool heating systems.
Where pumps are powered exclusively from on-site renewable generation. P403.40.3 Covers. Outdoor heated swimming pools and outdoor permanent specified by equipped with a vapor retordant cover on or at
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) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
EI	LECTRICAL 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.

Request for **Engineering Seal**



#:T20200124957

	Engineer:	Norm Scheel Structural Engineer
To	Phone:	916.536.9585
To:	Email:	

From:	Name:	Israel Vigil	
	Phone:		-
			

	Task:	Seal	
Work:	# Designs :	1	
	Extra Pages:	0	9

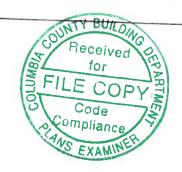
Page 1		Project Information	
Project Name: Project Address:	WB Howland 19-382	21 Graham Residence	
State Seal:	Florida	Document to Seal:	
Notes:			

	Email
Customer:	cletewilkerson@uslumber.com
Additional:	israel.vigil@lpcorp.com,
	howlandtruss@gmail.com

	Hard	Copy	10 10 mg/-
Send:	Email		
Company:	US Lumber - Corp		
Attn:	Clete Wilkerson		
Address:	3312 N Berkeley Lake Rd NW		
City:	Duluth		
State:			
Country:		Zip:	30096

Also Mail:	TA:		Regular Mail	
Company:	No	# Copies:	Delivery Method:	Account #:
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Address:				
City, State, Zip:				
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Client: Project: WB Howland Co

19-3821

Date: Designer:

1/24/2020

Clete Wilkerson Job Name: Graham Residence Page 1 of 1

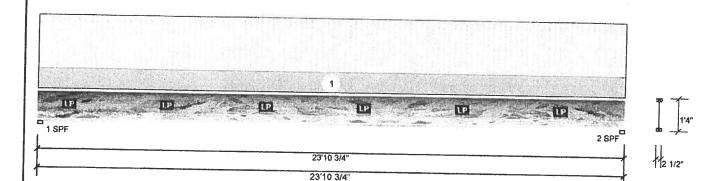
Project #:

JT1 LPI 32Plus

16.000" - PASSED

Level Level

Ticket: T20200124957



Member Inform	nation			Reaction	Reactions PATTERNED Ib (Uplift)						
Type: Spacing: Moisture Condition: Deflection LL: Deflection TL: Importance: Temperature:	Joist 16" o.c. Dry 360 240 Normal Temp <= 100°F	Application. Design Method: Building Code: Load Sharing: Deck:	Floor ASD IBC/IRC 2015 No Not Checked	Brg 1 2	Live 478 478	Dea 17	d Snow)	Wind 0 0	Const 0 0	
				Bearings	\$						
				Bearing	Length	Сар	React D/L lb	Total	Ld. Case	Ld. Comb.	
				1 - SPF	2.375"	62%	179 / 478	657	L	D+L	
nalucie Bosulte	,			2 - SPF	2.375"	62%	179 / 478	657	ı	Dati	

Analysis Results

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	3837 ft-lb	11'11 3/8"	6545 ft-lb	0.586 (59%)	D+L	L
	Shear	650 lb	1 5/8"	1870 lb	0.347 (35%)	D+L	i.
	LL Defl inch	0.417 (L/680)	11'11 7/16"	0.788 (L/360)	, ,		1
	TL Defl inch	0.573 (L/495)		1.181 (L/240)			1
_						0.0	-

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.156", Long Term = 0.234"
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum

4 Bottom flange braced at bearings.

aı	1							CALAS C	
טו	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1,15	Wind 1.6	Const. 1.25	Comments
1	Uniform							001101. 1 20	COMMONDS FY = 144.
•	Omorni		1-4-0	15 PLF	40 PLF	0 PLF	0 PLF	OPIE	

The signature has been electronically transmitted

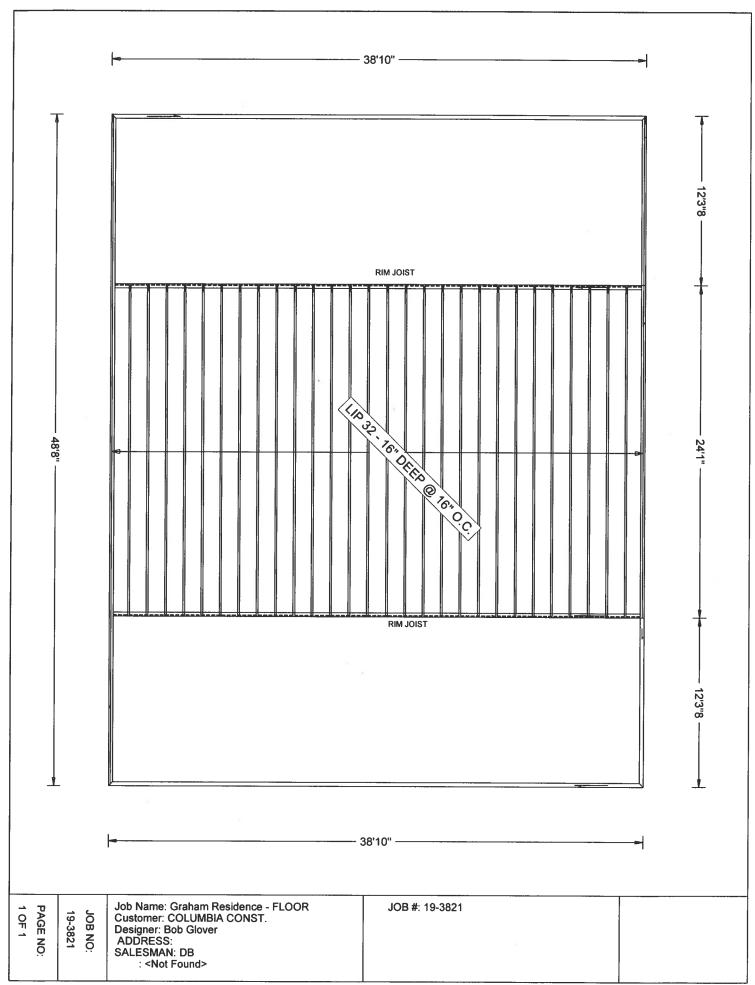
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Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com APA: PR-L238. ICC-ES: ESR-1305, LADBS: RR-25099, Florida FL15401

U.S. Lumber 2160 Satellite Blvd., Surle 450, GA U.S.A 30097 888-613-5078





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