DATE 05/23/2018 Columbia County I This Permit Must Be Prominently Poste	Building Permit d on Premises During Construction	PERMIT 000036770
APPLICANT RICKY STEWART	PHONE 386.719.7367	
ADDRESS 1691 SW JUDY GLN	LAKE CITY	FL 32025
OWNER RICKY & SUZANNE STEWART	PHONE 386.719.7367	
ADDRESS 450 SW MORNING STAR GLN	FT. WHITE	FL 32038
CONTRACTOR RICKY & SUZANNE STEWART	PHONE 386.719.7367	
LOCATION OF PROPERTY 47-S TO MORNING STAR GLI	EN,TL AND IT'S 5TH LOT ON R.	
TYPE DEVELOPMENT SFD/UTILITY E	STIMATED COST OF CONSTRUCTION	184450.00
HEATED FLOOR AREA 2445.00 TOTAL AI	REA 3689.00 HEIGHT	STORIES 1
FOUNDATION CONC WALLS FRAMED	ROOF PITCH 6'12 FL	OOR CONC
LAND USE & ZONING A-3	MAX. HEIGHT	
Minimum Set Back Requirments: STREET-FRONT 30.0	0 REAR 25.00	SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X	DEVELOPMENT PERMIT NO.	
PARCEL ID 34-5S-16-03752-117 SUBDIVISI	ON SHANNA MEADOWS	
LOT 17 BLOCK PHASE UNIT	TOTAL ACRES 5.0	00
000002609 OWNERS	/ Buy Etach	
Culvert Permit No. Culvert Waiver Contractor's License N		Contractor
PWD 17-0369 LN	TC N	-
Driveway Connection Septic Tank Number LU & Zoning che	cked by Approved for Issuance New Res	ident Time/STUP No.
COMMENTS: 1 FOOT ABOVE ROAD.		
	Charle # or Co	sch 1198
	Check # or Ca	ash 1198
	ING DEPARTMENT ONLY	(footer/Slab)
Temporary Power Foundation	ING DEPARTMENT ONLY  Monolithic	(footer/Slab)
	ING DEPARTMENT ONLY  Monolithic  date/app. by	(footer/Slab)  date/app. by
Temporary Power Foundation date/app. by  Under slab rough-in plumbing Slab date/app. by	ING DEPARTMENT ONLY  Monolithic	(footer/Slab)  date/app. by
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Temporary Power Foundation date/app. by  Under slab rough-in plumbing Slab date/app. by  Framing Insulation date/app. by  Rough-in plumbing above slab and below wood floor	Monolithic date/app. by  Sheathing/i	(footer/Slab)  date/app. by  Nailing
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Temporary Power Gate/app. by  Under slab rough-in plumbing Slab    Color   Color	Monolithic Monolithic Monolithic Sheathing/I date/app. by Electrical rough-in date/app. by tel) Pool Culvert date/app. by	(footer/Slab)  date/app. by  Nailing  date/app. by  date/app. by  date/app. by  date/app. by
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Temporary Power date/app. by  Under slab rough-in plumbing date/app. by  Framing date/app. by  Rough-in plumbing above slab and below wood floor  Heat & Air Duct Peri. beam (Lindate/app. by  Permanent power C.O. Final date/app. by  Pump pole date/app. by  Reconnection RV  date/app. by  BUILDING PERMIT FEE \$ 925.00 CERTIFICATION FINAL Page Age of the power of the powe	Monolithic	(footer/Slab)  date/app. by  Nailing  date/app. by  date/app. by  date/app. by  date/app. by  date/app. by  FEE \$ 18.45
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Temporary Power	ING DEPARTMENT ONLY	date/app. by  Nailing
Temporary Power	ING DEPARTMENT ONLY  Monolithic date/app. by  Sheathing/Nodate/app. by  Electrical rough-in date/app. by  tel) Pool date/app. by  Culvert date/app. by  downs, blocking, electricity and plumbing Re-roof date/app. by  EE \$ 18.45 SURCHARGE  O FIRE FEE \$ 0.00 WASTE  CULVERT FEE \$ 25.00 TOTA  CLERKS OFFICE CULVERT FEE \$ 25.00 TOTA  CRECORDS OF THIS COUNTY.  SHALL BE OBTAINED BEFORE COMMENT	(footer/Slab)  date/app. by  Nailing

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 THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

Columbia County New Building Permit Application 612 1198
For Office Use Only Application # 1805.47 Date Received 5/14 By W Permit #36770/ 2609  Zoning Official Date 5 2/18 Flood Zone Land Use A Zoning 13  FEMA Map # Elevation MFE road River Plans Examiner 1/6. Date 5-2/-18
Comments
NOC LEH Deed or PA Site Plan - State Road info Well letter 1911 Sheet - Parent Parcel #
□ 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 Sub VF Form
Septic Permit No. 17-0369 OR City Water Fax
Applicant (Who will sign/pickup the permit)RiCKY   STEWARTPhone 386-719-7367
Address 1691 SW JUDY GLN, LAKE CITY, FL 32025
Owners Name RICKY AND SUZANNE STEWART Phone 386-719-7367
911 Address 450 SW MORNING STAR GLN, FT WHITE, FLORIDA 32038
Contractors Name RICKY & SUZANNE WIEWATT Phone 386, 719 7367
Address 169) Sw Judy GIN, LAKE City, IL 32025
Contractor Email lake citystews to grail. com ***Include to get updates on this job.
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address MANTY J. Numphries, PE 1932 2407 SI
Mortgage Lenders Name & Address O'Brien, 3207)
Circle the correct power company FL Power & Light Clay Elec. Suwannee Valley Elec. Duke Energy
Property ID Number 34-5S-16-03752-117 Estimated Construction Cost
Subdivision Name_SHANNA MEADOWS Lot 17 Block Unit Phase
Driving Directions from a Major Road HEAD SOUTH ON US 41, MERGE RIGHT ONTO HWY 47 SOUTH FOR 11.7 MILES. TURN LEFT ONTO MORNING STAR GLEN. DESTINATION WILL BE ON THE RIGHT.
Construction of NEW HOME Commercial OR X Residential
Proposed Use/Occupancy RESIDENTIAL Number of Existing Dwellings on Property 1
Is the Building Fire Sprinkled? If Yes, blueprints included Or Explain
Circle Proposed Culvert Permit or Culvert Waiver or D.O.T. Permit or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front Side Rear
Number of Stories1 Heated Floor Area2445 Total Floor Area3689 Acreage5
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)
JU SENT email 5.14.18 , The sport of Suzzner 5.21.18

Revised 7-1-15

### **Columbia County Building Permit Application**

### CODE: Florida Building Code 2014 and the 2011 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.

<u>TIME LIMITATIONS OF PERMITS:</u> 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.

Pricky Stewart Sicky Stewart Owners Name	**Property owners <u>mus</u> before any permit will s Signature	
Print Owners Name / Owner	s Signature	
**If this is an Owner Builder Permit Applicatio	n then, ONLY the owner can sign the building permit when	it is issued.
	e I understand and agree that I have informed and probove written responsibilities in Columbia County for con and permit time limitations.	
	Contractor's License Number	
Contractor's Signature	Columbia County Competency Card Number	
Affirmed under penalty of perjury to by the Co	ntractor and subscribed before me this day of	20
Personally known or Produced Identification	ition	
	SEAL:	
State of Florida Notary Signature (For the Cont	tractor)	

### Columbia County Property Appraiser

Jeff Hampton

Owner

Description \*

Use Code \*

Site

Area

**Owner & Property Info** 

5 AC

Parcel: << 34-5S-16-03752-117 >>>

AC/XFOB (009901)

Tax District

	-	
operty Info	R	esult: 2 of 2
STEWART RICI 1691 SW JUDY LAKE CITY, FL	GLEN	IE W
,		
LOT 17 SHANNA CT 1173-1335, W		AFD 1022-1405,
5 AC	S/T/R	34-5S-16E

3

\* The <u>Description</u> 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. Please contact the Columbia County Planning & Development office for specific zoning information.

#### Property & Assessment Values 2017 Certified Values 2018 Working Values \$27,000 Mkt Land (1) \$28,000 Mkt Land (1) \$0 Ag Land (0) Ag Land (0) \$0 Building (0) \$0 Building (0) \$0 XFOB (1) \$7,128 XFOB (1) \$7,128 Just \$34,128 Just \$35,128 Class \$0 Class \$0 \$34,128 Appraised Appraised \$35,128 Exempt \$0 Exempt \$0 Assessed \$34,128 Assessed \$35,128 county:\$34,128 county:\$35,128 Total city:\$34,128 Total city:\$35,128 Taxable other:\$34,128 Taxable other:\$35,128 school:\$34,128 school:\$35,128

2017	Tax	Roll	Year
	update	ed: 10/2	27/2017

Aeria	l Viewer	Pictor	netery	Google	Maps		
<ul><li>2016</li></ul>	2013	2010	② 2007	2005	2004	0 1999	Sales
+ -	A STATE OF THE PARTY OF THE PAR		-				贫
			w i	(1)			SWM
SV	VROLLIN	ig mead	owscl	T 200			7
							// //

ales History						
Sale Date	Sale Price	Book/Page	Deed	V/I	Quality (Codes)	RCode
9/24/2010	\$29,900	1203/0185	WD	V	U	40
5/6/2009	\$100	1173/1335	CT	V	U	18
12/23/2003	\$29,000	1022/1405	AG	V	U	01

Bldg Sketch	Bldg Item	Bldg Desc	Year Blt	Base SF	Actual SF	Bldg Value
-------------	-----------	-----------	----------	---------	-----------	------------

xtra Fea	Extra Features & Out Buildings - (Show Codes)							
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)		
0030	BARN,MT	2014	\$7,128.00	864.000	24 x 36 x 0	AP (025.00)		

and Breakdo	own				
Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
009901	AC/XFOB (MKT)	1.000 LT - (5.000 AC)	1.00/1.00 1.00/1.00	\$28,000	\$28,000

### **COLUMBIA COUNTY 9-1-1 ADDRESSING**

P. O. Box 1787, Lake City, FL 32056-1787 PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron croft@columbiacountyfla.com

### **Addressing Maintenance**

To maintain the Countywide 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 assigning 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 Service 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 REQUESTED: 6/20/2013 DATE ISSUED: 6/25/2013

**ENHANCED 9-1-1 ADDRESS:** 

450 SW MORNING STAR GLN

FORT WHITE FL 32038

PROPERTY APPRAISER PARCEL NUMBER:

34-5S-16-03752-117

Remarks:

ADDRESS FOR LOCATION ON PARCEL

Address Issued By: SIGNED: / RONAL N. CROFT

Columbia County 9-1-1 Addressing / GIS Department

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

#### SUBCONTRACTOR VERIFICATION

APPLICATION/PERMIT #	1805.47	JOB NAME	STOWARD	

### 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 <a href="REQUIRED"><u>REQUIRED</u></a> 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.

		Need
ELECTRICAL	Print NameSignature	□ Lic
		□ Liab
	Company Name:	□ w/c
CC#	License #: Phone #:	□ EX □ DE
	.307	Need
MECHANICAL/	License #:	□ Lic
A/C	Company Name:	☐ Liab
Total	company runne.	□ W/c
CC#	License #: Phone #:	□ DE
PLUMBING/	Print Name Signature	Need
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CC#	License #:Phone #:	□ EX
	Print Name	□ DE Need
ROOFING	Print Name	□ Lic
	Company Name:	□ Liab
	0	□ w/c
CC#	License #: Phone #:	□ EX
SHEET METAL	Print NameSignature	Need
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CC#		□ EX
	License #: Phone #:	□ DE
STATE	Print NameSignature	Need Lic
		□ Liab
SPECIALTY	Company Name:	= w/c
CC#	License #: Phone #:	□ EX □ DE
		- DE

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



### COLUMBIA COUNTY BUILDING DEPARTMENT

135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Office: 386-758-1008 Fax: 386-758-2160

### OWNER BUILDER DISCLOSURE STATEMENT

I understand that state law requires construction to be done by a licensed contractor and have applied for an owner-builder permit under an exemption from the law. The exemption specifies that I, as the owner of the property listed, may act as my own contractor with certain restrictions even though I do not have a license.

I understand that building permits are not required to be signed by a property owner unless he or she is responsible for the construction and is not hiring a licensed contractor to assume responsibility.

I understand that, as an owner-builder, I am the responsible party of record on a permit. I understand that I may protect myself from potential financial risk by hiring a licensed contractor and having the permit filed in his or her name instead of my own name. I also understand that a contractor is required by law to be licensed and bonded in Florida and to list his or her license numbers on permits and contracts.

I understand that I may build or improve a one-family or two-family residence or farm outbuilding. I may also build or improve a commercial building if the costs do not exceed \$75,000. The building or residence must be for my own use or occupancy. It may not be built or substantially improved for sale or lease. If a building or residence that I have built or substantially improved myself is sold or leased with in 1 year after the construction is complete, the law will presume that I built or substantially improved it for sale or lease, which violates the exemption.

I understand that, as the owner-builder, I must provide direct, onsite supervision of the construction.

I understand that I may not hire an unlicensed person to act as my contractor or to supervise persons working on my building or residence. It is my responsibility to ensure that the persons whom I employ have the licenses required by law and by county or municipal ordinance.

I understand that it is frequent practice of unlicensed persons to have the property owner obtain an owner-builder permit that erroneously implies that the property owner is providing his or her own labor and materials. I, as an owner-builder, may be held liable and subjected to serious financial risk for any injuries sustained by an unlicensed person or his or her employees while working on my property. My homeowner's insurance may not provide coverage for those injuries. I am willfully acting as an owner-builder and am aware of the limits of my insurance coverage for injuries to workers on my property.

I understand that I may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on my building who is not licensed must work under my direct supervision and must be employed by me, which means that I must comply with laws requiring the withholding of federal income tax and social security contributions under the Federal Insurance Contributions Act (FICA) and must provide workers' compensation for the employee. I understand that my failure to follow these laws may subject me to serious financial risk.

I agree that, as the party legally and financially responsible for this proposed construction activity, I will abide by all applicable laws and requirements that govern owner-builders as well as employers. I also understand that the construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

I understand that I may obtain more information regarding my obligations as an employer from the Internal Revenue Service, the United States Small Business Administration, the Florida Department of Financial Services, and the Florida Department of Revenue. I also understand that I may contact the Florida Construction Industry Licensing Board at 850-487-1395 or Internet website address <a href="http://www.myfloridalicense.com/dbpr/">http://www.myfloridalicense.com/dbpr/</a>for more information about licensed contractors.

I am aware of, and consent to, an owner-builder building permit applied for in my name and understand that I am the party legally and financially responsible for the proposed construction activity at the following address:

450 SKI MORNING STAR GIN

I agree to notify Columbia County Building Department immediately of any additions, deletions, or changes to any of the information that I have provided on this disclosure. Licensed contractors are regulated by laws designed to protect the public. If you contract with a person who does not have a license, the Construction Industry Licensing Board and Department of Business and Professional Regulation may be unable to assist you with any financial loss that you sustain as a result of a complaint. Your only remedy against an unlicensed contractor may be in civil court. It is also important for you to understand that, if an unlicensed contractor or employee of an individual of firm is injured while working on your property, you may be held liable for damages. If you obtain an owner-builder permit and wish to hire a licensed contractor, you will be responsible for verifying whether the contractor is properly licensed and the status of the contractor's workers' compensation coverage.

I understand that if I hire subcontractors they must be licensed for that type of work in Columbia County, ex: framing, stucco, masonry, and state registered builders. Registered Contractors must have a minimum of \$300,000.00 in General Liability insurance coverage and the proper workers' compensation. Specialty Contractors must have a minimum of \$100,000.00 in General Liability insurance coverage and the proper workers' compensation coverage.

Before a building permit can be issued, this disclosure statement must be completed and signed by the property owner and returned to Columbia County Building Department.

TTPE OF CONSTRUCTION
(Y Single Family Dwelling () Two-Family Residence () Farm Outbuilding
( ) Addition, Alteration, Modification or other Improvement
( ) Commercial, Cost of Construction for construction of
( ) Other
Suzanne Shewarh, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes allowing this exception for the construction permitted by Columbia County Building Permit.
Surportu Utewart 5/8/18  Owner Builder Signature Date
NOTARY OF OWNER BUILDER SIGNATURE
The above signer is personally known to me or produced identification
Notary Signature  Date 5.8.18  (SebA)RIE HODSON MY COMMISSION # FF 976102 EXPIRES: July 14, 2020 Bonded Thru Notary Public Underwriters
FOR BUILDING DEPARTMENT USE ONLY
I hereby certify that the above listed owner builder has been given notice of the restriction
Building Official/Representative and with a will and a will a wil

Revised: 7-1-15 DISCLOSURE STATEMENT 15 Documents: B&Z Forms SSOCOF#:\_\_\_\_

done	APRILETTE, G
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STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT

PERMIT NO.	17-1369N
DATE PAID:	Coliller
FEE PAID:	3000
RECEIPT #:	1293095

APPLICATION FOR: [X] New System [ ] Existing System
[X] New System [ ] Existing System [ ] Holding Tank [ ] Innovative [ ] Repair [ ] Abandonment [ ] Temporary [ ]
APPLICANT: RICKY and Suzanne Stewart
AGENT: Ronald Ford - Ford's Septic Tank Service, LLC TELEPHONE: 386-755-6288
MAILING ADDRESS: 116 N.W. Lawtev Way Lake Circ Florid 22055
Eake City, Florida 32055 FAX: 386-755-6944
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: 17 BLOCK: SUBDIVISION: Shanna Meadows PLATTED: S121/01
PROPERTY ID #: 34-55-16-03759-117 ZONING: RES. I/M OR EQUIVALENT: [ Y K)]
PROPERTY SIZE: 5.00 ACRES WATER SUPPLY: [X] PRIVATE PUBLIC [ ] <= 2000GPD [ ]>2000GPD
IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y A ]
PROPERTY ADDRESS: 450 SW Morning Star alen ft Whit, FL 32038
DIRECTIONS TO PROPERTY:
47 South. Don Morning Star Gien.
Home #450 on right.
BUILDING INFORMATION [X] RESIDENTIAL [ ] COMMERCIAL
Unit Type of No. of Building Commercial/Institutional System Design  No Establishment Bedrooms Area Sqft Table 1 Chapter 64F-6 FAC
1 SFR Bedrooms Area Sqft Table 1, Chapter 64E-6, FAC
2
3
4
[ ] Floor/Equipment Drains [ ] Other (Specify)
SIGNATURE: Rocky 07 DATE: 5/3/17

# STATE OF FLORIDA DEPARTMENT OF HEALTH APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 12-0369 ale: one inch = 50 feet ---- PART II - SITEPLAN 2951 alen ---SW Morning star one ocre details 6371 VAC Well 775' 2101 well 25' 346 701911 WATER VAC Lines BM 251 WATER LINE 210 Notes: Site Plan submitted by: Date (4) 8/17 Not Approved By County Health Department 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)

PAT LYNCH LYNCH DRILLING CORP P O Box 934 Branford, FL 32008 (386)935-1076

DATE 5-14-18

CUSTOMER Ricky & Suzanne Stewart 1691 SW Judy Glen Lake City, FL 32025

LOCATION Shanna Meadows Subd-Lot 17

Parcel # 34-55-16-03752-117 450 5w Morning Star Glen, F+ Whites FL 32038

WE WILL CONSTRUCT A 4" WATER WELL COMPLETE WITH 4" WATER WELL STEEL CASING, 1/2 SUBMERSIBLE PUMP WITH 1 1/4" DROP PIPE, AND AN 85 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN).

WELL WILL BE COMPLETE AT THE WELL SITE, WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND.OR CONTRACTOR PRIOR TO COMMENSMENT OF THE INDIVIDUAL JOB.

### THANK YOU

NOT RESPONSIBLE FOR THE QUALITY OF WATER



### COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015 AND THE NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015

#### ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE WITH THE CURRENT 2014 FLORIDA BUILDING CODES RESIDENTIAL, EFFECTIVE 1 JULY 2015. NATIONAL ELECTRICAL CODE 2011 EFFECTIVE 1 JULY 2015. 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.

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 12/2016

GENERAL REQUIREMENTS:

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

1	Two (2) complete sets of plans containing the following:	- Ves
1	Two (2) complete sets of plans containing the following:	
2	All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void	- Yes
3	Condition space (Sq. Ft.) 2445 Total (Sq. Ft.) under roof 3689	YES NO N/A
be	signers name and signature shall be on all documents and a licensed architect or engineer, signature an affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2 te Plan information including:	d official embossed seal sha 2.1
4	Dimensions of lot or parcel of land	- Yes
5	Dimensions of all building set backs	· Ves
6	Location of all other structures (include square footage of structures) on parcel, existing or proposed	- /
	well and septic tank and all utility easements.	- yes
7	Provide a full legal description of property.	· Ves
W	ind-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 Marked as Applicable
8	Plans or specifications must show compliance with FBCR Chapter 3	YES NO N/A
		Select From the Dropbox
9	Basic wind speed (3-second gust), miles per hour	- Yes
10	(Wind exposure – if more than one wind exposure	- Ves
	is used, the wind exposure and applicable wind direction shall be indicated)	- yes
11	Wind importance factor and nature of occupancy	- Yej
12	The applicable internal pressure coefficient, Components and Cladding	- Yes
	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component,	,
13	cladding materials not specifally designed by the registered design professional.	. Yej
EUROS-	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
El	evations Drawing including:	v.
EI 14	evations Drawing including:  All side views of the structure	I. Yei
		- Yes
14	All side views of the structure	
14 15	All side views of the structure Roof pitch	- Vei
14 15 16 17 18	All side views of the structure  Roof pitch  Overhang dimensions and detail with attic ventilation  Location, size and height above roof of chimneys  Location and size of skylights with Florida Product Approval	- Yel - Yes
14 15 16 17 18	All side views of the structure  Roof pitch  Overhang dimensions and detail with attic ventilation  Location, size and height above roof of chimneys  Location and size of skylights with Florida Product Approval  Number of stories	- Yel - Yes - NIA
14 15 16 17 18	All side views of the structure  Roof pitch  Overhang dimensions and detail with attic ventilation  Location, size and height above roof of chimneys  Location and size of skylights with Florida Product Approval  Number of stories	- Yes - Yes - NIA

Items to Include-Each Box shall be

Marked as

Applicable

Flo	or Plan including:	
	Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck,	- Ves
0	balconies  Richard State Control of Control	7-5
1	Raised floor surfaces located more than 30 inches above the floor or grade	- N/N
2	All exterior and interior shear walls indicated	. Yes
3	Shear wall opening shown (Windows, Doors and Garage doors)	- yes
4	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	1
	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	- Yes
	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.	
	Safety glazing of glass where needed	I. VeJ
	Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth	
5	(see chapter 10 and chapter 24 of FBCR)	
		- 10/14
7	Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	
		- 10/19
3	Identify accessibility of bathroom (see FBCR SECTION 320)	
	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
Be	CR 403: Foundation Plans	YES / NO / N/A Select From the Dropbo
9	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size	
	and type of reinforcing.	- Yes
)	All posts and/or column footing including size and reinforcing	- NA
	Any special support required by soil analysis such as piling.	· NA
	Assumed load-bearing valve of soil Pound Per Square Foot	- N/A
3	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structu	res
1	with foundation which establish new electrical utility companies service connection a Concrete	- te1
1	Encased Electrode will be required within the foundation to serve as an grounding electrode system.	10,
1	Per the National Electrical Code article 250.52.3	
R	CR 506: CONCRETE SLAB ON GRADE	
	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	1. Yes
	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	. Vel
1	show control joints, synthetic noci remiorecinent of wenter the faorie remiorecinent and supports	- 701
R	CR 318: PROTECTION AGAINST TERMITES	
Ť	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	T
5	Submit other approved termite protection methods. <b>Protection shall be provided by registered</b>	. Ves
	termiticides	
_		
В	CR 606: Masonry Walls and Stem walls (load bearing & shear Walls)	OK.
	Show all materials making up walls, wall height, and Block size, mortar type	· Ves
	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	· Yes
	tal frame shear wall and roof systems shall be designed, signed and sealed by Florida Pi	rof. Engineer or Archit
	or designed, signed by Florida F	on angineer of the ent
lo	or Framing System: First and/or second story	
T	Floor truss package shall including layout and details, signed and sealed by Florida Registered	NIA
9	Professional Engineer	1-1-1

	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,	-
40	stem walls and/or priers	
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers	-
42	Attachment of joist to girder  Wind load requirements where applicable	-
43	Show required under-floor crawl space	-
45	Show required amount of ventilation opening for under-floor spaces	1
46	Show required covering of ventilation opening	1
47	Show the required access opening to access to under-floor spaces	
-4/	Show the required access opening to access to under-moor spaces  Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &	17
48	intermediate of the areas structural panel sheathing	<b>V</b> -
49	Show Draftstopping, Fire caulking and Fire blocking	Ves Yes
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6	· Vei
51	Provide live and dead load rating of floor framing systems (psf).	1014
31	Trovide rive and dead road fatting of froot framing systems (psi).	WEG (NG ) N/I
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION	YES / NO / N/A
		Items to Include-
	GENERAL REQUIREMENTS:	Each Box shall be
	APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Marked as
		Applicable
		elect From the Dropbox
52	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	· yes
53	Fastener schedule for structural members per table IRC 602.3 are to be shown	- YES
	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural	
54	members, showing fastener schedule attachment on the edges & intermediate of the areas structural	· Ves
	panel sheathing	
	Show all required connectors with a max uplift rating and required number of connectors and	
55	oc spacing for continuous connection of structural walls to foundation and roof trusses or	. Yes
	rafter systems	
	Show sizes, type, span lengths and required number of support jack studs, king studs for shear	. Ves
56	wall opening and girder or header per IRC Table 502.5 (1)	- 10
57	Indicate where pressure treated wood will be placed	· Yes
etisetekk	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	· Ves
58	panel sheathing edges & intermediate areas	
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	- yes
Tet	CD POOR SYSTEMS	
MODERA	BCR :ROOF SYSTEMS:	1 1/2
	Truss design drawing shall meet section FBCR 802.1.6.1 Wood trusses	· yes
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	· Yes
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	- Yes
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	- Yes
64	Provide dead load rating of trusses	. Yes
F	BCR 802:Conventional Roof Framing Layout	
65	Rafter and ridge beams sizes, span, species and spacing	
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	
67		-
68	Provide dead load rating of rafter system	-
UO	Frovide dead foad fathig of father system	- ·
FF	BCR 803 ROOF SHEATHING	
69	Include all materials which will make up the roof decking, identification of structural panel	
09	sheathing, grade, thickness	· Yes
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	. Vel
, 0	and a series of the state of the structural paner sheathing off the edges of intermediate dreas	100
RO	OOF ASSEMBLIES FRC Chapter 9	
	Include all materials which will make up the roof assembles covering	- Ves
72		· Vel

### 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.

YES / NO / N/A

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Items to Include- Each Box shall be Marked as Applicable
		Select From the Dropbox
73	Show the insulation R value for the following areas of the structure	- VeJ
74	Attic space	· ves
75	Exterior wall cavity	- Yes
76		- N/A
н	AC information	
77		- Ves
78		Ver
	20 cfm continuous required	- 19
79	Show clothes dryer route and total run of exhaust duct	- Yes
-		
	ımbing Fixture layout shown	
80		. yes
81	Show the location of water heater	- Yel
Pr	ivate Potable Water	
82	Pump motor horse power	. Yes
83		· Vei
84		· Ve1
Ele	ectrical layout shown including	
85		- Ves
86		Vei
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	- Yes
87	Show the location of smoke detectors & Carbon monoxide detectors	- Yer
88	Show service panel, sub-panel, location(s) and total ampere ratings	· Ves
89	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.	. Yes
	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	\\alpha \\
90	Appliances and HVAC equipment and disconnects	- Yer
91	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 are fault circuit interrupter. Protection device	- yes

### GENERAL REQUIREMENTS:

APPLICANT - PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

TH	E FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS			
		YES	NO	N/A
92	<b>Building Permit Application</b> 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.			
93	<b>Parcel Number</b> The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. <a href="www.columbiacountyfla.com">www.columbiacountyfla.com</a>	ye.	1	
94	<b>Town of Fort White</b> (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.		NA	
***	BELOW ITEMS ONLY NEEDED AFTER ZONING APPROVAL HAS GIVEN.	****	***	***
95	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058	y	es OA	
96	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031	T 1	OH	
97	<b>Flood Information:</b> 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	j	Ye.	1
98	<b>CERTIFIED FINISHED FLOOR ELEVATIONS</b> 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.		NK	?
99	A Flood development permit is also required for AE, Floodway & AH. Development permit cost is \$50.00			
100	<b>Driveway Connection:</b> 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 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.	,	Yes	
101	<b>911 Address:</b> An application for a 911 address must be applied for and <b>received</b> through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.		Jes	

### TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION SITES. . .

<u>Disclosure Statement for Owner Builders</u> If you as the applicant will be acting as an owner/builder under section 489.103(7) of the Florida Statutes, submit the required owner builder disclosure statement form.

### **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 preformed.

### Section R101.2.1 of the Florida Building Code Residential:

The provisions of Chapter 1, Florida Building Code shall govern the administration and enforcement of the Florida Building Code, Residential.

Section 105 of the Florida Building Code defines the:

### Time limitation 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 such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

### Single-family residential dwelling.

Section 105.3.4 A building permit for a single-family residential dwelling must be issued within 30 working days of application therefor unless unusual circumstances require a longer time for processing the application or unless the permit application fails to satisfy the Florida Building Code or the enforcing agency's laws or ordinances.

### Permit intent.

Section 105.4.1: A permit issued shall be constructed to be a license to proceed with the work and not as authority to violate, cancel, alter or set aside any of the provisions of the technical codes, nor shall issuance of a permit prevent the building official from thereafter requiring a correction of errors in plans, construction or violations of this code. Every permit issued shall become invalid unless the work authorized by such permit is commenced within six months after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of six months after the time the work is commenced.

### If work has commenced.

Section 105.4.1.1: If work has commenced and the permit is revoked, becomes null and void, or expires because of lack of progress or abandonment, a new permit covering the proposed construction shall be obtained before proceeding with the work.

### New Permit.

Section 105.4.1.2: If a new permit is not obtained within 180 days from the date the initial permit became null and void, the building official is authorized to require that any work which has been commenced or completed be removed from the building site. Alternately, a new permit may be issued on application, providing the work in place and required to complete the structure meets all applicable regulations in effect at the time the initial permit became null and void and any regulations which may have become effective between the date of expiration and the date if issuance of the new permit.

### Work Shall Be:

Section 105.4.1.3: Work shall be considered to be in active progress when the permit has received an approved inspection within 180 days. This provision shall not be applicable in case of civil commotion or strike or when the building work is halted due directly to judicial injunction, order or similar process.

#### The Fee:

Section 105.4.1.4: The fee for renewal reissuance and extension of a permit shall be set forth by the administrative authority.

#### Notification:

When the application is approved for permitting the applicant will be notified by phone as to the status by the Columbia County Building & Zoning Department.

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING	Termo - Tru	Exterior hinged doors	FL 5891-R3
B. SLIDING	PGT	Sliding glass doors	FL 251-R15
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG	PGT	Window	FL 239 -R19
B. HORIZONTAL SLIDER	PGI	VVIIIdow	FL 239 -N19
C. CASEMENT	<del></del>		
	+		
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING	Certainteed	Cement Fibered Siding	FL 1573-R2
B. SOFFITS	Kaycon	Aluminum Soffit / Facia	FL 12198-R1
C. STOREFRONTS	T		
D. GLASS BLOCK	1		
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Cardaintead	Arch Chinalas 20us	FL 5444-R3
B. NON-STRUCTURAL METAL	Certainteed	Arch Shingles - 30yr	FL 5444-R3 FL 4911-R3
C. ROOFING TILES	GAF OMG	Tar Paper Roofing nails	FL 699-R3
D. SINGLE PLY ROOF	OIVIG	Roolling flails	FL 099-R3
E. OTHER	-		
5. STRUCTURAL COMPONENTS			
A. WOOD CONNECTORS	USPC	Anchors	FL 5631-R1
B. WOOD ANCHORS	USPC	Anchors	FL 563-Ri
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS	1		

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

Pruh Stevet	5-15-18	
Contractor OR Agent Signature	Date	NOTES:

# **Stewart Residence**

### 450 SW Morning Star Glenn, Fort White, FL Columbia County, Florida

# Wind Load Analysis Requirements

(In Compliance with the 2017 Florida Building Code)

Prepared By: Marty J. Humphries, P.E. # 51976 7932 240th St., O'Brien, FL 32071 (386)935-2406

### **Description of New Residence:**

Footprint: 67'5" deep by 70'0" wide overall with front and rear porch and carport inset on right side (See sheet "A2" by Teena Ruffo)

Walls: 2x4 SPF stud wall with studs-16" O.C. with 7/16" OSB sheathing, hardiplank lap-siding w hardiboard trim exterior with stone/brick knee-wall(see elevations) and ½"gypsum wall board interior

Roof Structure: Pre-engineered roof trusses at 2' on center and 15/32" OSB or CDX plywood sheathing

Roof Type: Gable (analyzed for 2' eave overhang and 1' gable overhands, porches and carport) Foundation: stem-wall with slab construction (see attached wall typical)

### Windload Data and Exposure:

Basic Wind Speed = 120 mph

Importance Factor = 1.0

Exposure category = B

Height and Exposure Adjustment Coefficient = 1.0

Residential Occupancy = Group R3

Mean roof height = 18'

Roof Cross Slope = 6:12

Eave Overhang= (Analyzed for 2"eave overhang with 1' at gables)

Wall Height = 9' primarily with 10' at front porch

Shear Wall locations = exterior walls only (all walls 3' in length or greater)

Component and Cladding Pressures = Roof(Zone 1=10.0,-14.0, Zone 2=10.0,-24.0, Zone 3=10.0,--36.0), Wall(Zone 4=15.5,-16.0, Zone 5=15.5,-20.0)(units are psf)

### **Nailing Pattern Requirements:**

Wall sheathing: Shall be 7/16" Oriented Strand Board(OSB) nailed with 8d

common nails 4" on center around edges(including around doors and windows) and 6" on center interior. Full-depth blocking shall be installed

at horizontal joints in sheathing.

Roof sheathing: Shall be 15/32" Oriented Strand Board(OSB) or CDX plywood min.

nailed with 8d ring-shank nails 6" on center including overhang areas

mety 3.71

Top wall plate:

Nail with 1-16d common nail 12" O.C.(average)

### **Strapping and Anchor Requirements:**

truss to exterior wall plate,

porch headers:

Install one Simpson model H10A hurricane anchor each location For double-ply girder truss install Simpson H10A-2 and Simpson

H2.5A strap.

wall strap tie requirements:

For each door or window 4' or less in width install one Simpson model SP4 at each side - top and bottom of the wall. For each door or window over 4' in width install two Simpson model SP4's at each side - top and bottom of the wall. All other wall locations install 1-SP4 top and bottom of wall 4' on center. Double straps at

end of carport wall top and bottom.

Rear porch header:

Install Simpson HUC612 hanger connecting porch header to home.

Front Porch columns: Install Simpson ABU44 or ABU66 anchor and Simpson AC4(Max)

(ACE4Max may be used for end columns) If 6x6 columns are used notch column to receive header and install 2-3/4" galvanized carriage bolts.

Rear Porch columns: Install Simpson ABU66 anchor and Simpson AC6(Max)

(ACE6Max may be used for end columns)

### Gable-End Strapping/Bracing:

(See Attached Detail)

### **Footer Requirements:**

Exterior Walls - Stemwall: (w stone/brick kneewall)

Minimum size of footer shall be 10" x 21" wide with 3-#5 rebar continuous and 1-#5 vertical rebar 48" on center. All cells shall be filled with concrete. 5/8" x 10" anchor bolts with 2" plate washers shall be installed 3' on center, each side of doors, and 8" from corner. (3000 psi concrete min.) (See Attached Footer Detail)

Porches: Same as exterior walls(See Detail), Monolithic optional footer shown (See Detail)

Carport Entrance Edge: (Same as monolithic porch footer – See Detail)

Interior Monolithic footer between living and rear porch area: (See attached Detail)

Mites J. 7 L

### **Header Requirements:**

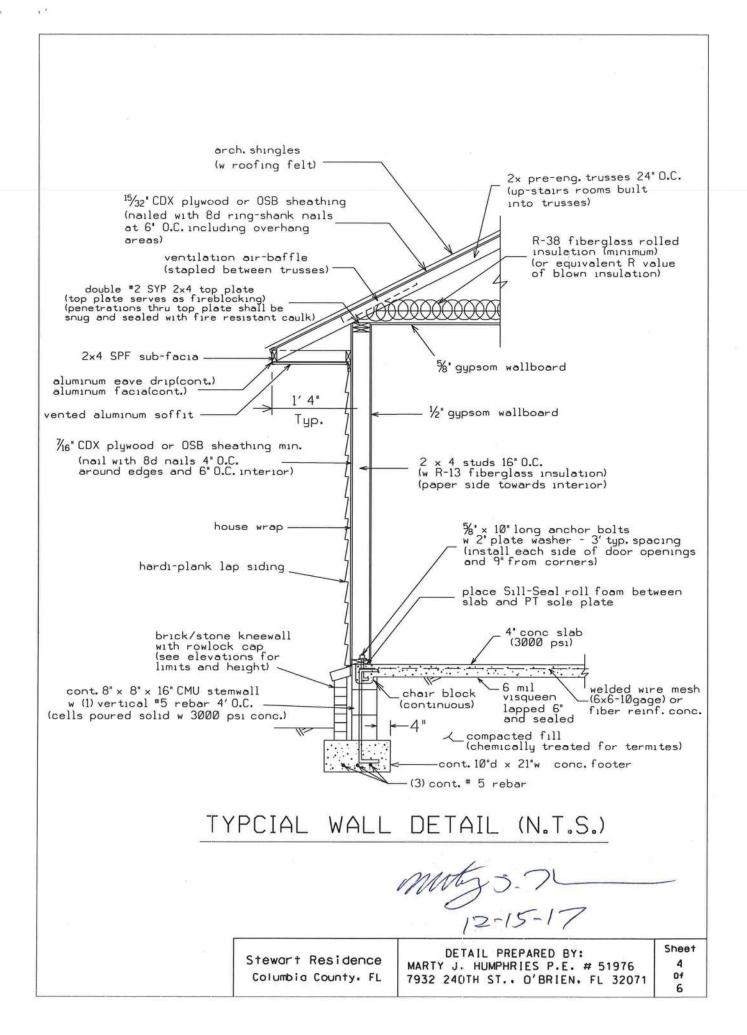
Windows & Doors: Header shall be 2 - #2 SYP 2x12's with ½" plywood/OSB between nailed with 4-12d nails 10" on-center.

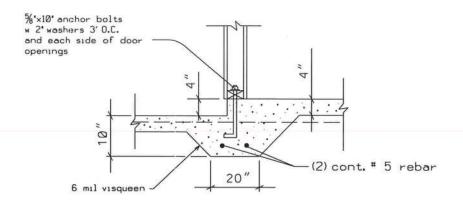
Front Porch: Header shall be 2-#2 SYP 2x10's w ½" OSB or plywood between nailed with 4-12d nails 10" on-center.

Rear Porch: Header shall be 3-#2 SYP 2x12's w ½" OSB or plywood between nailed with 4-12d nails 10" on-center.

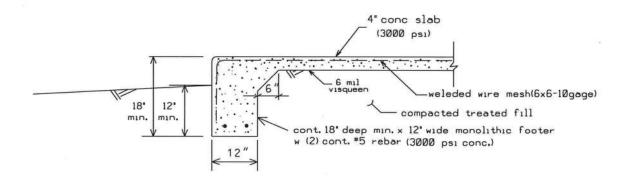
Note: Equivalent capacity anchors may be substituted, installed in accordance with the manufacturers requirements.

Mety 2.72

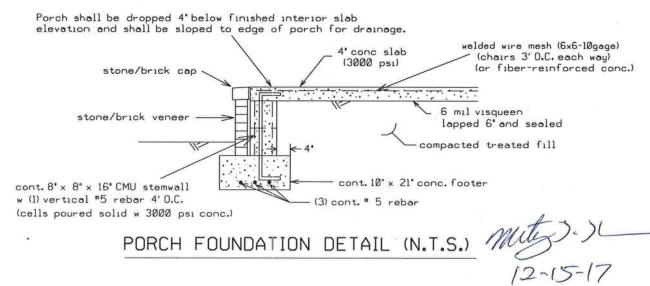




### FOOTER DETAIL - BETWEEN REAR PORCH AND HOME (N.T.S.)



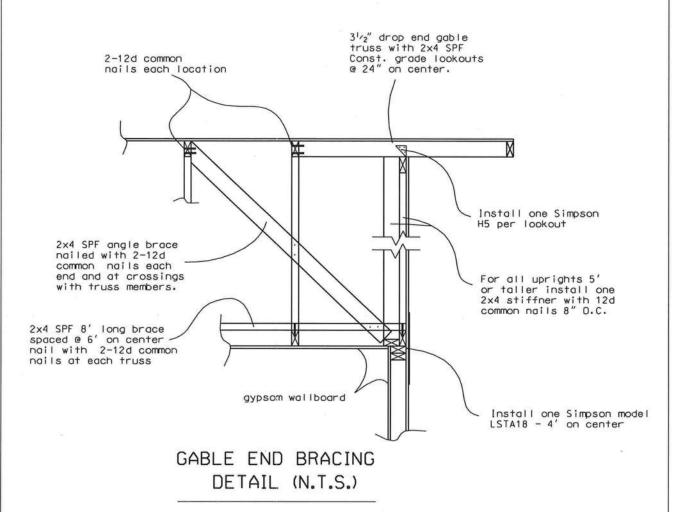
### OPTIONAL - MONOLITHIC PORCH FOUNDATION DETAIL (N.T.S.)



Stewart Residence Columbia County. FL

DETAIL PREPARED BY: MARTY J. HUMPHRIES P.E. # 51976 7932 240TH ST. . O'BRIEN. FL 32071 Sheet 5 Of

6



NOTE: Gable end trusses shall be dropped  $3^{1}\gamma_{2}^{"}$  for construction of lookouts & overhang.

Muty J.71\_\_\_\_

Stewart Residence Columbia County, FL DETAIL PREPARED BY:
MARTY J. HUMPHRIES P.E. # 51976
7932 240TH ST., D'BRIEN, FL 32071

Sheet 6

0f 6

### 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:

	1.	his checklist
	R in ai oi co	Form R405 report that documents that the Proposed Design complies with Section 405.3 of the Florida Energy Code. This form shall include a summary page dicating home address, e-ratio and the pass or fail status along with summary reas and types of components, whether the home was simulated as a worst-case rientation, 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).
	E	nergy Performance Level (EPL) Display Card (one page)
	Н	VAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
	М	landatory Requirements (five pages)
Red	quii	red 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

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Stewart Residence Street: 450 SW Morning Star Glen City, State, Zip: Fort White , FL , 32038 Owner: Ricky and Suzanne Stewart 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) Conditioned floor area below grade (ft²) 7. Windows(169.5 sqft.) Description a. U-Factor: Dbl, U=0.55 SHGC: SHGC=0.50 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. H. Forters	9. Wall Types (2435.2 sqft.)  a. Frame - Wood, Exterior  b. N/A  c. N/A  d. N/A  R=  ft²  10. Ceiling Types (2445.0 sqft.)  b. N/A  c. N/A  R=  ft²  11. Ducts  a. Sup: Attic, Ret: Attic, AH: Main  12. Cooling systems  kBtu/hr  k
d. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 0.000 ft. Area Weighted Average SHGC: 0.500  8. Floor Types (2445.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 2445.00 ft² b. N/A R= ft² c. N/A R= ft²	a. Electric Heat Pump 28.9 HSPF:8.80  14. Hot water systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None  15. Credits CV, Pstat
Glass/Floor Area: 0.069 Total Proposed Modifie  Total Baseline	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.  PREPARED BY:	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.  BUILDING OFFICIAL: DATE:

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

INPUT SUMMARY CHECKLIST REPORT

				PROJEC	СТ						
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Stewart Resider User Ricky and Suzai 1 Single-family New (From Plan	nne Stewart	Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou	d Area: 2 es: 6 e: Mele: 0 ilation: 1	2445 I No ) Yes		Address T Lot # Block/Sub PlatBook: Street: County: City, State	division:	Street Ad 450 SW N Columbia Fort White FL , 3	Morning	Star G
		X		CLIMAT	E						1
V Des	ign Location	TMY Site		Des 97.5	sign Temp % 2.5 %	Int Desig		Heating Degree Da			iily Tem Range
FL,	Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1305.5	5	1	Medium
				BLOCK	s				-VI		
Number	Name	Area	Volume		,						7
1	Block1	2445	23227.5	5							
				SPACE	S						
Number	Name	Area	Volume K	litchen (	Occupants	Bedrooms	Infil ID	Finish	ied C	ooled	Heat
1	Main	2445	23227.5	Yes	3		1	Yes	Y	es	Yes
	27			FLOOR	S						
√ #	Floor Type	Space	Perim	neter F	R-Value	Area			Tile \	Nood (	Carpet
1 Sla	b-On-Grade Edge I	nsulatio M	ain 257	ft	0	2445 ft²			8.0	0	0.2
				ROOF							
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitcl (deg
1	Gable or shed	Composition shing	les 2734 ft²	612 ft²	Medium	0.96	No	0.9	No	0	26.6
				ATTIC							
V #	Туре	Ventil	ation	Vent Ratio	(1 in)	Area	RBS	IRCC			
1	Full attic	Ven	ted	300	2	2445 ft²	N	N			
				CEILING	G						
V #	Ceiling Type		Space	R-Value	Ins Ty	pe Are	ea F	raming Fi	rac Tru	ss Type	9
1	Under Attic (Ver	ted)	Main	30	Blown		5 ft²	0.11		Nood	

INPUT SUMMARY CHECKLIST REPORT

						WA	LLS								
V #	Ornt	Adjao To		Туре	Space	Cavity R-Value	Wid Ft	th In	Heigl Ft Ir		Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov
_ 1	N	Exterio	or Fra	ime - Wood	Main	19	70	9	9 6	1	672.1 ft <sup>2</sup>		0.23	0.75	(
2	E	Exterio	or Fra	ime - Wood	Main	19	57	5	9 6	ij.	545.5 ft <sup>2</sup>		0.23	0.75	(
3	S	Exterio	or Fra	ime - Wood	Main	19	70	9	9 6	ì	672.1 ft <sup>2</sup>		0.23	0.75	(
_ 4	W	Exterio	or Fra	ime - Wood	Main	19	57	5	9 6	ii .	545.5 ft <sup>2</sup>		0.23	0.75	(
*//						DO	ORS								
$\vee$	#	Ori	nt	Door Type	Space			Storms	U-	-Valu	e F	Width t In	Height Ft	ln	Area
	1	N		Insulated	Main			None		.46	3	1	7		21 ft²
	2	N		Insulated	Main			None		.46	3	1	7		21 ft²
	3	S		Insulated	Main			None		.46	3	l.	7		21 ft²
	4	S		Wood	Main			None		.46	3	É	7	:	21 ft²
				Orio	entation sho		OOWS		d orient	ation.					
1		Wal	ı									rhang			
V	#	Ornt ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Ar	ea	Depth	Separation	Int Sha	de S	Screeni
	1	N 1	Vinyl	Low-E Double	Yes	0.55	0.5	N	108.	Oft2	0 ft 0 in	0 ft 0 in	Drapes/b	linds	None
	2	E 2	Vinyl	Low-E Double	Yes	0.55	0.5	Ν	36.0	) ft²	0 ft 0 in	0 ft 0 in	Drapes/b	linds	None
	3	S 3	Vinyl	Low-E Double	Yes	0.55	0.5	Ν	18.0	ft²	0 ft 0 in	0 ft 0 in	Drapes/b	linds	None
W room	4	W 4	Vinyl	Low-E Double	Yes	0.55	0.5	N	7.5	ft²	0 ft 0 in	0 ft 0 in	Drapes/b	linds	None
						INFILT	RATIC	N							
	Scope		Method		SLA (	CFM 50	ELA	E	EqLA		ACH	ACI	H 50		
Wh	olehous	e Pro	posed AC	CH(50) .000	302	1935.6	106.26	1	99.84		.2429	1	5		
						HEATING	SYS	ГЕМ							
$\sqrt{}$	#	System	Туре	Sul	otype			Efficiend	су	С	apacity		В	lock	Ducts
_	1	Electric	Heat Pu	mp/ No	ne			HSPF:8	.8	28.8	9 kBtu/hr		97	1	sys#1
						COOLING	SYS	TEM							
$\sqrt{}$	#	System	Туре	Sul	otype		Е	fficienc	y Ca	pacit	у А	ir Flow S	SHR B	lock	Ducts
	1	Central	Unit/	No	ne		8	SEER: 1	5 18.09	kBtı	u/hr 54	0 cfm 0	).85	1	sys#1
					Н	OT WATE	R SY	STEM							
$\sqrt{}$	#	Syster	m Type	SubType L	ocation	EF	Ca	0	Use		SetPn	t	Conser	vation	
	1	Electr	ic	None M	1ain	0.92	50 g	al	60 ga		120 de	20	Nor	SOLVEOU .	

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT SOLAR HOT WATER SYSTEM **FSEC** Collector Storage Cert # Company Name System Model # Collector Model # FEF Area Volume None ft² None **DUCTS** ---- Supply -------- Return ----HVAC # Air **CFM 25** CFM25 # Location R-Value Area Location Area Handler TOT OUT RLF Heat Cool Leakage Type QN 1 Attic 489 ft<sup>2</sup> Attic 122.25 Default Leakage Main (Default) (Default) 1 1 **TEMPERATURES** Programable Thermostat: Y Ceiling Fans: Cooling Heating Venting [ ] Jan [X] Jan Jan [X] Jun [ ] Jun [ ] Jun [ ] May [ ] May [ ] May [ ] Jul [X] Jul [X] Jul [ ] Nov [X] Nov [X] Nov X Dec Dec Dec Sep Sep Sep Oct Oct X Oct Thermostat Schedule: HERS 2006 Reference Hours Schedule Type 3 4 5 6 7 8 9 10 11 12 Cooling (WD) AM PM 78 80 78 80 78 78 78 78 78 78 78 78 78 78 80 78 80 78 80 78 80 78 Cooling (WEH) 78 78 78 78 78 78 78 78 Heating (WD) 66 68 68 68 66 68 68 68 68 68 68 68 68 66 Heating (WEH) 66 68 66 68 66 66 68 68 68 68 68 68 66 68 68 68 66 MASS Mass Type Area Thickness Furniture Fraction Space Default(8 lbs/sq.ft. 0 ft² 0 ft 0.3 Main

Name:	Signature:	
Rating Compant:	Date:	

### **ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 100

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
3. No. of units (if multiple-family)	31	c) AHU location Attic/Attic
4. Number of bedrooms	40	13. Cooling system: Capacity 18.1 a) Split system SEER
5. Is this a worst case? (yes/no)	5No	b) Single package SEER c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	62445	d) Room unit/PTAC EER
<ul><li>7. Windows, type and area</li><li>a) U-factor:(weighted average)</li><li>b) Solar Heat Gain Coefficient (SHGC)</li><li>c) Area</li></ul>	7a. 0.550 7b. 0.500 7c. 169.5	14. Heating system: Capacity 28.9 a) Split system heat pump HSPF b) Single package heat pump HSPF
Skylights     a) U-factor:(weighted average)	8aNA	c) Electric resistance COP d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. NA	e) Gas furnace, LPG AFUE
9. Floor type, insulation level:		3.53
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 0.92 b) Gas fired, natural gas EF
<ol><li>Wall type and insulation:</li></ol>		c) Gas fired, LPG
A. Exterior:		d) Solar system with tank EF
<ol> <li>Wood frame (Insulation R-value)</li> </ol>	10A1. <u>19.0</u>	e) Dedicated heat pump with tank EF
<ol><li>Masonry (Insulation R-value)</li></ol>	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
<ol> <li>Wood frame (Insulation R-value)</li> </ol>	10B1	
<ol><li>Masonry (Insulation R-value)</li></ol>	10B2	
		<ol><li>HVAC credits claimed (Performance Method)</li></ol>
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a. <u>30.0</u>	b) Cross ventilation Yes
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c 11dNo	d) Multizone cooling credit
d) Radiant barrier installed	11dNo	e) Multizone heating credit
		f) Programmable thermostat Yes
*Label required by Section R303.1.3 of the Flo	orida Building Code, Ener	rgy Conservation, if not DEFAULT.
I certify that this home has complied with the saving features which will be installed (or excedisplay card will be completed based on installed).	eeded) in this home befor	nergy Conservation, through the above energy re final inspection. Otherwise, a new EPL res.
Builder Signature:	-	Date:
Address of New Home: 450 SW Morning Sta	ar Glen	City/FL Zin: Fort White FL 32038

### **Residential System Sizing Calculation**

Summary

Ricky and Suzanne Stewart 450 SW Morning Star Glen Fort White, FL 32038 Project Title: Stewart Residence

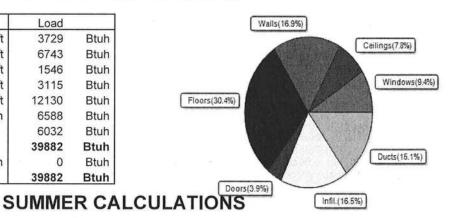
5/16/2018

Location for weather data: Gaine	sville, FL -	Defaults: L	atitude(29.7) Altitude(152 ft.) Tem	p Range(M)	
Humidity data: Interior RH (50%	) Outdoor	wet bulb (7	7F) Humidity difference(51gr.)		
Winter design temperature (TMY3	99%) 30	F	Summer design temperature(TMY	3 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	39882	Btuh	Total cooling load calculation	27608	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	72.4	28889	Sensible (SHR = 0.85)	70.8	15380
Heat Pump + Auxiliary(0.0kW)	72.4	28889	Latent	46.1	2714
			Total (Electric Heat Pump)	65.5	18095

### WINTER CALCULATIONS

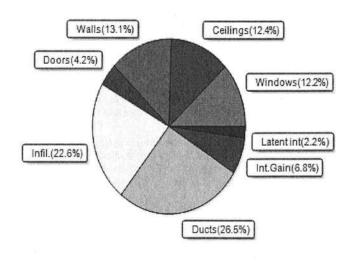
Winter Heating Load (for 2445 sqft)

Load component			Load	
Window total	170	sqft	3729	Btuh
Wall total	2182	sqft	6743	Btuh
Door total	84	sqft	1546	Btuh
Ceiling total	2445	sqft	3115	Btuh
Floor total	2445	sqft	12130	Btuh
Infiltration	150	cfm	6588	Btuh
Duct loss			6032	Btuh
Subtotal		- 1	39882	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS		Seat (WOOC)	39882	Btuh



Summer Cooling Load (for 2445 sqft)

Load component			Load	
Window total	170	sqft	3357	Btuh
Wall total	2182	sqft	3608	Btuh
Door total	84	sqft	1159	Btuh
Ceiling total	2445	sqft	3426	Btuh
Floor total			0	Btuh
Infiltration	113	cfm	2347	Btuh
Internal gain			1890	Btuh
Duct gain		- 1	5929	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			21716	Btuh
Latent gain(ducts)		- 1	1398	Btuh
Latent gain(infiltration)			3894	Btuh
Latent gain(ventilation)		- 1	0	Btuh
Latent gain(internal/occu	pants/othe	r)	600	Btuh
Total latent gain			5892	Btuh
TOTAL HEAT GAIN			27608	Btuh





EnergyGauge® System Sizing
PREPARED BY: \_\_\_\_\_
DATE: \_\_\_\_\_

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

Λ	-	-	-	-	C	ĺ

450 SW Morning Star Glen Fort White, FL, 32038 Permit Number:

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

of

### MANDATORY REQUIREMENTS - (Continued) R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8. Exceptions: 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential. 2. R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering. SECTION R403 SYSTEMS R403.1 Controls. R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system. R403.1.3 Heat pump supplementary heat (Mandatory). Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load. R403.3.2 Sealing (Mandatory) All ducts, air handlers, filter boxes and building cavities that form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below. Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3. R403.3.2.1 Sealed air handler. Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193. R403.3.3 Duct testing (Mandatory). Ducts shall be pressure tested to determine air leakage by one of the following methods: 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 1. manufacturer's 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: 1. 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 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums. R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3. R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted. R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory) Heated water circulation systems shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible, R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

with the 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

MA	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:
	<ol> <li>Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and</li> <li>Be installed at an orientation within 45 degrees of true south.</li> </ol>
	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.
	<b>Exception:</b> 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:
	<ol> <li>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.</li> </ol>
	<ol><li>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.</li></ol>
	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.
	R403.7.1 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 <sup>a</sup> (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

a.

MA	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 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.						
	<ol> <li>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.</li> </ol>						
	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:						
	<ol> <li>A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.</li> </ol>						
	<ol> <li>A variable capacity system sized for optimum performance during base load periods is utilized.</li> </ol>						
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.						
	R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).						
	R403.10 Pools and permanent spa energy consumption (Mandatory).  The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.						
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.						
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.						
	Exceptions:						
	<ol> <li>Where public health standards require 24-hour pump operation.</li> <li>Pumps that operate solar- and waste-heat-recovery pool heating systems.</li> </ol>						
	<ol><li>Where pumps are powered exclusively from on-site renewable generation.</li></ol>						
	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.						
	<ul> <li>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.</li> <li>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.</li> </ul>						

	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										
ELECTRICAL POWER AND LIGHTING SYSTEMS										
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.									
	Exception: Low-voltage lighting.									
	R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.									

### 2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

## TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: Street: Stewart Residence

450 SW Morning Star Glen

Builder Name: Permit Office:

City, State, Zip:

41 . . . .

p: Fort White , FL , 32038

Permit Number:

Owner: Design Location:	Ricky and Suzanne Stewart Jurisdiction: FL, Gainesville	***	CHEC	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic  The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed.  Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.		The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls  The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed.  Knee walls shall be sealed.		Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum.  Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.			
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.		
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.		
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace		
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.			
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.		
Garage separation	Air sealing shall be provided between the garage and conditioned space	es.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.		
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.		
Electrical/phone box or exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.			
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer.  Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.  of log walls shall be in accordance with the provisions of ICC-400.			

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

X

### **Envelope Leakage Test Report (Blower Door Test)**

Residential Prescriptive, Performance or ERI Method Compliance 2017 Florida Building Code, Energy Conservation, 6th Edition

	Jurisdiction:		Permit #:						
Job Information									
Bui	lder: Co	ommunity:		Lot:	NA				
Add	dress: 450 SW Morning Star Glen								
City	r: Fort White	State	: FL Z	ip: 32	038				
Air	Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method								
	PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.  PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.								
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI):    X 60 + 23228									
3. Ir 4. E 5. H	<ol> <li>Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.</li> <li>Interior doors, if installed at the time of the test, shall be open.</li> <li>Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.</li> <li>Heating and cooling systems, if installed at the time of the test, shall be turned off.</li> <li>Supply and return registers, if installed at the time of the test, shall be fully open.</li> </ol>								
Te	esting Company								
Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.									
Sig	gnature of Tester:		Date of Test: _						
Pr	inted Name of Tester:								
Lic	cense/Certification #:		Issuing Authority:						