Columbia County New Building Permit Application

For Office Use Only Application # 43813 Date Received 10/15/19 By W Permit # 38869/38800
Zoning Official Date 10-15-19 Flood Zone Land Use A8 Zoning A-3
FEMA Map # Elevation MFE River Plans Examiner 7.C. Date 10-28-19
Comments florone for about the road
NOC ZEH Deed or PA ZSite Plan State Road info Well letter 2911 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. 19-0752 OR City Water Fax (384) 719-9899
Applicant (Who will sign/pickup the permit) Matthew A. Erkinger Sr Phone (386) 754-5555
Address 248 SE NASSAU ST., LAKE CITY, FL 32025
Owners Name Ryan C. & Pamela B. Touchton Phone 386 466-9851
911 Address 8566 SE CR 245 LAKE CITY, FL 32025
Contractors Name ERKINGER CONSTRUCTION GROUP Phone (386) 754-5555
Address 248 SE NASSAU St. LAKE CITY, FL 32025
Contractor Email info Derkinger homes.com ***Include to get updates on this job.
Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address DISOSWAY DESIGN GROUP-169 SW. MIDTOWN PLACE, SuitE 103
Mortgage Lenders Name & Address FIRST FEDERAL SAULUGS BANK - 4705 W. HWY 90 LAKE City
Circle the correct power company – FL Power & Light – Clay Elec. – Suwannee Valley Elec. – Duke Energy
Property ID Number 1/-55-17-09212-000 Estimated Construction Cost 200K
Subdivision Name Lot Block Unit Phase
Driving Directions from a Major Road 90 E. 1.7mi to Guntry Club Rd, Turn Right 3.9m to
Driving Directions from a Major Road 90 E. 1.7 mi to Country Club Rd, Turn Right 3.9 m to CR 252, Turn Left 1.9 mi. to CR 245, Turn Right 3.9 mi Just Past
Gabe Road To Erkinger Sign on Right.
Gabe Road To Erlainger Sign on Right. Construction of Single Family Dwelling Commercial OR Residential Browned the Consumance Residential
Proposed Use/Occupancy RESIDENTIAL Number of Existing Dwellings on Property O
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 115 Side 300'4- Side 366'4- Rear 1,164'4- Number of Stories Heated Floor Area
Number of Stories Heated Floor Area
Zoning Applications applied for (Site & Development Plan, Special Exception, etc.)

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.

Ryan C. Touchton
Print Owners Name

**Property owners <u>must sign</u> here

Owners Signature

**Property owners <u>must sign</u> here

Owners Signature

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

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

Contractor's Signature

Contractor's License Number <u>LRC 6143</u>

Columbia County

Competency Card Number

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 12 day of September 2019

Personally known_____ or Produced Identification

SEAL:

State of Florida Notary Signature (For the Contractor)

Brandi Lynn Lee NOTARY PUBLIC STATE OF FLORIDA Comm# GG052483

Page 2 of 2 (Both Pages must be submitted together.)

Revised 7-1-15



SUBCONTRACTOR VERIFICATION

ICATION/PERMIT# 438/3	JOB NAME _	Touchton	Ryana	Pan
ICATION/PERMIT# 43813	JOB NAME _	Touchton	, Ky	200

THIS FORM MUST BE SUBMITTED BEFORE A PERMIT WILL BE ISSUED

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

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

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

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

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

	m m m	<u>Need</u> Lic
ELECTRICAL	Print Name Man Matthews Signature July	_ Liab
	Company Name: Matthews Electric	I W/C
cc# 16	License #: EC 13.00 59.59 Phone #: 386 344 2029	I EX
MECHANICAL/	Print Name Rehard C Register Signature Richard Clegarty	Need Lic
A/C B	Company Name: Registers Heating & Air	□ Liab □ W/C
CC# 152	License #: CACO41267 Phone #: 909 384-2862	EX EX
PLUMBING/	Print Name Code, Burs Signature	Need L Lic
GAS V	Company Name: Od Brus Plunters	_ Liab
GA3		I EX
cc#_7(5		C DE Need
ROOFING	Print Name WAVACA POWEN Signature W	I Lic
	Company Name: POWELL & SONS ROOFING TUC	□ Liab □ W/C
cc# 1034	License #: CC - COS 1307 Phone #: 38% - 289 - 5198	□ EX
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SHEET METAL CC# FIRE SYSTEM/	Print Name	Need Lic Liab W/C EX DE Need Lic Lic Liab
SHEET METAL CC# FIRE SYSTEM/ SPRINKLER	Print NameSignature Company Name:Phone #: Print NameSignature Company Name:Signature	Need Lic Liab W/C EX DE Need Lic Liab W/C C EX
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Ref: F.S. 440.103; ORD. 2016-30

Legend

Parcels

2018Aerials



DevZones1

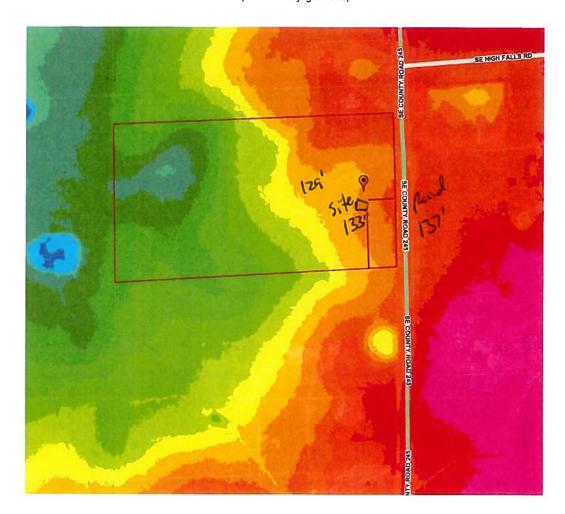
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DEFAULT

LidarElevations

Columbia County, FLA - Building & Zoning Property Map

Printed: Tue Oct 15 2019 16:11:22 GMT-0400 (Eastern Daylight Time)



Parcel Information

Parcel No: 11-5S-17-09212-000 Owner: PHILLIPS ERNEST & JASON

Subdivision:

Lot:

Acres: 21.265131 Deed Acres: 21 Ac

District: District 4 Toby Witt Future Land Uses: Agriculture - 3

Flood Zones:

Official Zoning Atlas: A-3

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

2018 Tax Roll Year updated: 6/25/2019

Columbia County Property Appraiser Jeff Hampton

Parcel: << 11-5S-17-09212-000 >>

Owner & Property Info

 6	6			
Owner	TOUCHTON RYAN C & PAMELA B TOUCHTON 215 SW BRODERICK DR LAKE CITY, FL 32025			
Site	•			
Description*	Description* SCUTH 483.14 FT ORB 849-149 QC 1061-2645, DC 1142-352, QC 1238-534,537,538, WD 1383-1421	CRES AND EX(1061-2645, DC)EPT THE 1142-352, QC	
Area	21 AC	S/T/R	11-5S-17	
Use Code**	TIMBERLAND (005600)	Tax District	3	
"The Description	"The Description above is not to be used as the Legal Description for this parcel in any legal	on for this parcel in	any legal	

"The <u>Description</u> above is not to be used as the Legal Description for this parcel in any legal transaction.

"The <u>Use Code</u> is a FL Dept. of Revenue (DOR) code and is not maintained by the Property Appraiser's office. Please contact your city or county Planning & Zoning office for specific zoning information.

SECONOMICA DE LA COMPANION DEL COMPANION DE LA SECLARENCECT Google Maps SE MYRTIS RD SE WEBLEYCT Pictometery M9 0 2016 0 2013 SEPRECIOUSCY Aerial Viewer SE PITTMAN CT SE INSPIRATION CT 5,145 \$0 4,132 5,145 5,145 \$0 5,145 5,145 5,145 \$0 \$0

-			
2018	2018 Certified Values	2019	2019 Working Values
Mkt Land (0)	80	\$0 Mkt Land (0)	\$0
Ag Land (1)	\$4,998	\$4,998 Ag Land (1)	\$5,145
Building (0)	\$0	Building (0)	0\$
XFOB (0)	\$0	XFOB (0)	\$0
Just	\$84,132	Just	\$84,132
Class	\$4,998 Class	Class	\$5,145
Appraised	\$4,998	Appraised	\$5,145
SOH Cap [7]	\$0	SOH Cap [?]	\$0
Assessed	\$4,998	Assessed	\$5,145
Exempt	\$0	Exempt	\$0
Total Taxable	county:\$4,998 city:\$4,998 other:\$4,998 school:\$4,998	Total Taxable	county:\$5,145 city:\$5,145 other:\$5,145 school:\$5,145

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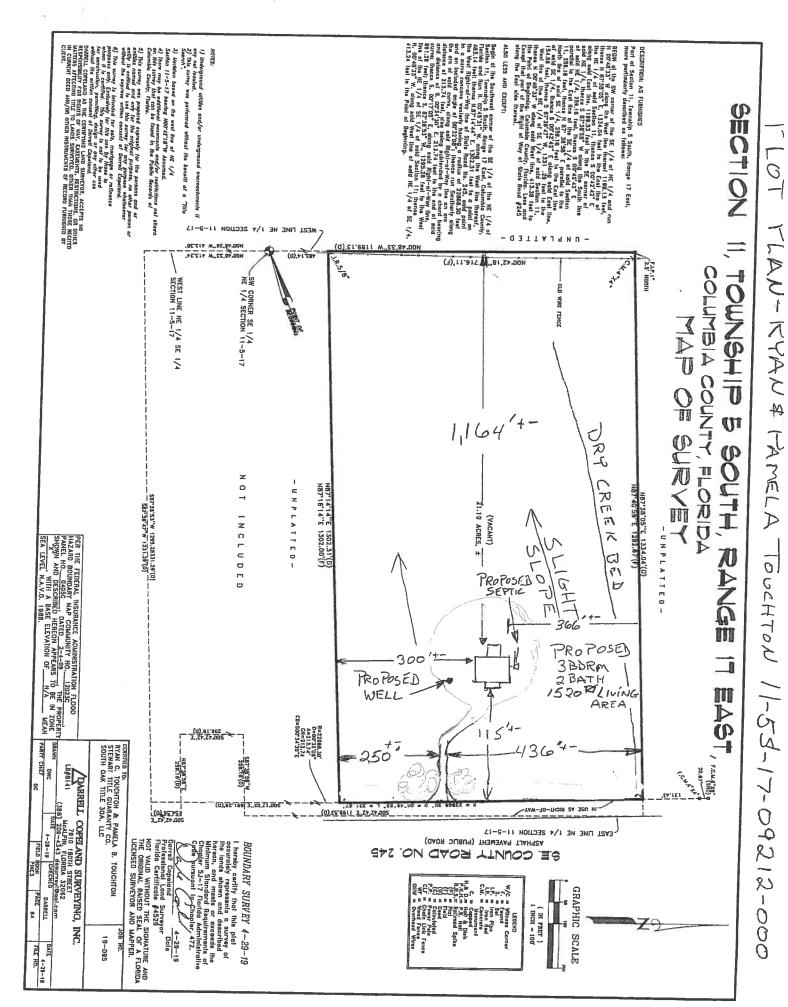
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Bldg Value	Actual SF	Base SF	Year Bit	Bldg Desc*	Bldg Item	Bldg Sketch Blo
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	Condition (% Good)	
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ires & Out Buil	Desc	
▼ Extra Features	Code	

 Land Breakdown 	L.				
Land Code	Desc	Units	Adjustments	Eff Rate	Land Value
002600	TIMBER 3 (AG)	21.000 AC	1.00/1.00 1.00/1.00	\$245	\$5,145
009910	MKT.VAL.AG (MKT)	21.000 AC	1.00/1.00 1.00/1.00	\$0	\$84,132

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by GrizzlyLogic.com





District No. 1 - Ronald Williams District No. 2 - Rocky Ford District No. 3 - Bucky Nash District No. 4 - Toby Witt



Address Assignment and Maintenance Document

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

Date/Time Issued:

9/5/2019 3:14:12 PM

Address:

8566 SE COUNTY ROAD 245

City:

LAKE CITY

State:

FL

Zip Code

32025

Parcel ID

09212-000

REMARKS: Address for proposed structure on parcel.

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

Address Issued By:

Signed:/ Matt Crews

Columbia County GIS/911 Addressing Coordinator

COLUMBIA COUNTY
911 ADDRESSING / GIS DEPARTMENT

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

Inst_Number: 201912021476 Book: 1394 Page: 1532 Page 1 of 3 Date: 9/13/2019 Time: 3:03 PM P.DeWitt Cason Clerk of Courts, Columbia County, Florida

This Document Prepared By: Name: Christina Hester Title: Closer First Federal Bank 4705 US Hwy 90 West Lake City, FL 32055

NOTICE OF COMMENCEMENT

STATE OF FLORIDA COUNTY OF COLUMBIA

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of

Description of Property:

See Exhibit A

2. General Description of improvement: Construction of Residential Single Family Home

3. Owner Information:

Name and Address:

Ryan C Touchton, Pamela B Touchton 215 SW Broderick Dr, Lake City, FL 32025

Interest in property: [X] Fee Simple

Name and address of fee simple title holder (if other than Owner):

4. Contractor (name and address):

Erkinger Construction Group

248 SE Nassau Street, Lake City, FI 32025

5. Surety:

6. Lender

First Federal Bank 4705 US Hwy 90 West Lake City, FL 32055 (877) 499-0572

- 7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: [
- 8. In addition to himself, Owner designates First Federal Bank, 4705 West Hwy 90/P.O. Box 2029, Lake City Florida 32056 to receive a copy of the Lienor's Notice as provided in Section 713.13 (1)
- 9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 713.13, FLORIDA STATUTES AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY, A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OF RECORDING YOUR NOTICE OF





Inst. Number: 201912021476 Book: 1394 Page: 1533 Page 2 of 3 Date: 9/13/2019 Time: 3:03 PM P.DeWitt Cason Clerk of Courts, Columbia County, Florida

(Seal) Borrower - Pamela B Touchton State of Florida county of <u>Columbia</u> The foregoing instrument was acknowledged before me this 12 day of September. who is personally known to me or who has produced as identification. Brandi Lynn Lee NOTARY PUBLIC Signature of person taking (Name typed printed or stamped) Expires 12/5/2020 (Title or Rank) (Serial Number if any) My Commission expires: Verification Pursuant to Section 92.525, Florida Statutes Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief. Borrower - Pamela B Touchton





Inst. Number: 201912021476 Book: 1394 Page: 1534 Page 3 of 3 Date: 9/13/2019 Time: 3:03 PM

P.DeWitt Cason Clerk of Courts, Columbia County, Florida

ATT# 9156

Exhibit "A"

Part of Section 11, Township 5 South, Range 17 East, more particularly described as follows:

Begin at the SW corner of the SE 1/4 of NE 1/4 and run N 00°48'33" W along the West line thereof 1199.13 feet, thence N 87°38'05" E,1334.04 feet to the East line of the NE 1/4 of said Section 11, thence S 00°42'42" E along said East line,1199.53 feet to the SE corner of said NE 1/4, thence S 87°38'58" W along the South line of said NE 1/4, 259.16 feet, thence S 00°42'42" E parallel to the East line of the SE 1/4 of said Section 11, 259.16 feet, thence N 87°38'58" E parallel to the North line of said SE 1/4, 259.16 feet to the East line of said SE 1/4, thence S 00°42'42" E along said East line, 154.56 feet, thence S 87°39'47" W, 1331.29 feet to the West line of the NE 1/4 of SE 1/4 of said Section 11, thence N 00°48'33" W along said West line, 413.38 feet to the Point of Beginning. Columbia County, Florida. Less and Except that part of the Right of Way of State Road #245 along the East side thereof.

Also less and except:

Begin at the Southwest corner of the SE 1/4 of the NE 1/4 of Section 11, Township 5 South, Range 17 East, Columbia County, Florida and run N 00°45'31" W along the West line thereof, 483.14 feet; thence N 87°14'44" E 1302.31 feet to a point on the West Right-of-Way line of State Road No. 245, said point in a curve having a radius of 22868.30 feet and an included angle of 00°32'08"; thence run Southerly along the arc of said curve, along said Right-of-Way line, an arc distance of 213.74 feet, also being subtended by a chord bearing and distance of S 00°34'30" E 213.74 feet to the end of said curve; thence S 00°17'05" E, along said Right-of-Way line, 691.26 feet; thence \$ 87°36'53" W, 1295.28 feet to the West line of the NE 1/4 of SE 1/4 of said Section 11; thence N 00°48'33" W along said West line of said NE 1/4 of SE 1/4, 413.24 feet to the Point of Beginning.

OUNTY OF



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

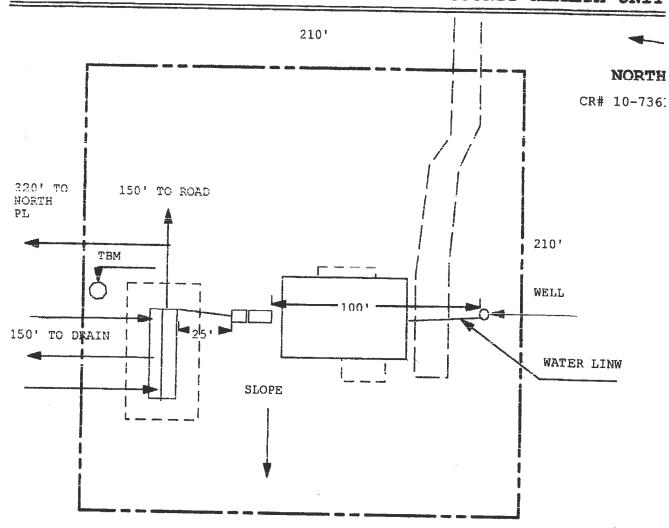
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PERMIT NO .	9.	17	50
DATE PAID:	10	9	TA T
FEE PAID:	311	1	77
RECEIPT # : 7	11	1 1	

APPLICATION FOR:	FION FOR CONSTRUCTION		RECEIPT #: 1415
[X] New System [[] Repair [] Existing System] Abandonment	[] Holding T [] Temporary	ank [] Imnovative
APPLICANT: RYAN & PAME	LA TOUCHTON		
AGENT: ERKINGER CONST	RUCTION GROUP		TELEPHONE: (3 86) 754-5555
MAILING ADDRESS: 215 SW	BRODERICK DRIVE	LAK	ECITY FL 32025
APPLICANT'S RESPONSIBIL	RESUMNT TO ANY IDSIGNAME	OR 489.552, FLOF	MITTER TORI COM .
PROPERTY INFORMATION			
LOT: N/A BLOCK: N	METE	S AND BOUNDS	PLATTED:
PROPERTY ID #: 11-5S-17-	09212-000 zo	ONING: RES I/I	M OR EQUIVALENT: [NO]
PROPERTY SIZE: 21.000 A	CRES WATER SUPPLY: [X	PRIVATE PUBLIC	[]<=2000GPD []>2000GPI
			STANCE TO SEWER: N/A FT
PROPERTY ADDRESS:			INTA EL
DIRECTIONS TO PROPERTY:		RIGHT ON SR 100 TI	JRN RIGHT ON CR 245, SITE IS CH.
BUILDING INFORMATION	[X] RESIDENTIAL []	COMMERCIAL	
Unit Type of No. Establishment	No. of Buildi Bedrooms Area S	ng Commercial/In qft Table 1, Chap	stitutional System Design ter 64E-6, FAC
1 HOUSE	31,	520	
2			
3			
4	0		
[] Floor/Equipment D	cains / Speci	.fy)	
SIGNATURE:	T. CoM Tres		DATE: 10-9-19

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

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

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



1 INCH = 40 FEET

Site Plan Submitted By Real X Plan Approved Not Approved	leas Date (9/1)	Date 10/7/19
By	Coulin	CPHU
lotes: W		



CLYATT WELL DRILLING, INC.

(Established in 1971)
Post Office Box 180
Worthington Springs, Florida 32697
Phone (386)496-2488 *** FAX (386)496-4640

WELL DESCRIPTION

DESCRIPTION DATE

6/14/2017

CUSTOMER NAME AND ADDRESS	DESCRIPTION OF WORK
Erkinger Construction Group 248 SE Nassau Street	
Lake City, Fl 32025	
a a	

DESCRIPTION

Feet 4" Well
1 HP Submersible Pump
Feet 1-1/4" Drop Pipe
Feet 14/3 Submersible Pump Wire
81 Gallon Pressure Tank
4 X 1-1/4 Well Seal
Pressure Relief Valve
Controls and Fittings
Sales Tax @ 7%

The above description is provided to give a brief description of the water well to be constructed by Clyatt Well Drilling, Inc.





COLUMBIA COUNTY BUILDING DEPARTMENT RESIDENTIAL CHECK LIST

MINIMUM PLAN REQUIREMENTS: FLORIDA BUILDING CODE RESIDENTIAL 2014 EFFECTIVE 1 JULY 2015

AND THE NATIONAL ELECTRICAL 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 7/1/15

GENERAL REQUIREMENTS:

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Two (2) complete sets of plans containing the following:

All drawings must be clear, concise, drawn to scale, details that are not used shall be marked void

Circled as Applicable

Yes No N/A

Applicable

Yes No N/A

Total (Sq. Ft.) under roof

Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents as per the FLORIDA BUILDING CODES RESIDENTIAL R101.2.1

Site Plan information including:

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

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

	GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each C	s to Inclu Box shal Circled as plicable	l be
8	Plans or specifications must show compliance with FBCR Chapter 3	ШШ	ШШ	шш
		YES	NO	N/A
9	Basic wind speed (3-second gust), miles per hour	X		
10	(Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated)	X		
11	Wind importance factor and nature of occupancy	X		
12	The applicable internal pressure coefficient, Components and Cladding	X		
13	The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component, cladding materials not specifally designed by the registered design professional.	X		

Elevations Drawing including:

-	ations Diaming including.		
14	All side views of the structure	X	
15_	Roof pitch	X	
16	Overhang dimensions and detail with attic ventilation	+	
17	Location, size and height above roof of chimneys	X	A SE
18	Location and size of skylights with Florida Product Approval		NA
18	Number of stories	X	
20A	Building height from the established grade to the roofs highest peak	X	

Items to Include-

Floor Plan including:

Dimensioned area plan showing rooms, attached garage, breeze ways. covered porches. deck, balconies 21 Raised floor surfaces located more than 30 inches above the floor or grade 22 All exterior and interior shear walls indicated 23 Shear wall opening shown (Windows, Doors and Garage doors) 24 Show compliance with Section FBCR 310 Emergency escape and rescue opening shown in each bedroom (net clear opening shown) and Show compliance with Section FBC 1405.13.2 where the opening of an operable window is located more than 72 inches above the finished grade or surface below, the lowest part of the clear opening of the window shall be a minimum of 24 inches above the finished floor of the room in which the window is located. Glazing between the floor and 24 inches shall be fixed or have openings through which a 4-inch-diameter sphere cannot pass. 25 Safety glazing of glass where needed Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 and chapter 24 of FBCR) 27 Show stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails	
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	N/n
	1/14
	41/
	MA
28 Identify accessibility of bathroom (see FBCR SECTION 320)	

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

GENERAL REQUIREMENTS:	Items to Include-
APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each Box shall be
	Circled as
	Applicable

FBCR 403: Foundation Plans

		YES	NO	N/A
29	Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.	X		
30	All posts and/or column footing including size and reinforcing	X		
31	Any special support required by soil analysis such as piling.			NA
32	Assumed load-bearing valve of soil Pound Per Square Foot			NA
33	Location of horizontal and vertical steel, for foundation or walls (include # size and type) For structures with foundation which establish new electrical utility companies service connection a Concrete Encased Electrode will be required within the foundation to serve as an grounding electrode system. Per the National Electrical Code article 250.52.3	X		

FBCR 506: CONCRETE SLAB ON GRADE

F7007 17				
34	Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)	X		
35	Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports	X		

FBCR 318: PROTECTION AGAINST TERMITES

	Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or	
36	Submit other approved termite protection methods. Protection shall be provided by registered	İ
	termiticides	

FBCR 606: Masonry Walls and Stem walls (load bearing & shear Walls)

37	Show all materials making up walls, wall height, and Block size, mortar type	X	
38	Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement	X	

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

1	Floor truss package shall including layout and details, signed and sealed by Florida Registered	İ		11/.
39	Professional Engineer			VA
	Show conventional floor joist type, size, span, spacing and attachment to load bearing walls,			11/1
40	stem walls and/or priers			10/14
41	Girder type, size and spacing to load bearing walls, stem wall and/or priers			MA
42	Attachment of joist to girder			N/A
43	Wind load requirements where applicable	1		
44	Show required under-floor crawl space			N/A N/A N/A N/A
45	Show required amount of ventilation opening for under-floor spaces			NA
46	Show required covering of ventilation opening			N/A
47	Show the required access opening to access to under-floor spaces			N/N
	Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges &			
48	intermediate of the areas structural panel sheathing			1 1
49	Show Draftstopping, Fire caulking and Fire blocking			
50	Show fireproofing requirements for garages attached to living spaces, per FBCR section 302.6			1.
51	Provide live and dead load rating of floor framing systems (psf).			V
FB	CR CHAPTER 6 WOOD WALL FRAMING CONSTRUCTION GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL	Each C	to Inclusion to Inclusion to Include as included as policable	ll be
		YES	NO	N/A
52	Studiture and size well-height and as area in family and hearing and hearing		NO	17/21
52 53	Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls	\	-	
23	Fastener schedule for structural members per table IRC 602.3 are to be shown	7	+	-
54	Show Wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing	\succ		
55	Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems	X		
56	Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FBCB 2308.9.5	X		
57	Indicate where pressure treated wood will be placed	/		
	Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural	人		
58	panel sheathing edges & intermediate areas			
59	A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail	~		i
FE	SCR :ROOF SYSTEMS:			
60	Truss design drawing shall meet section FBCR 802.1.7.1 Wood trusses	X		
61	Include a layout and truss details, signed and sealed by Florida Professional Engineer	X		
62	Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters	2		
63	Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details	X		
64	Provide dead load rating of trusses	X		
FI	BCR 802:Conventional Roof Framing Layout			
65	Rafter and ridge beams sizes, span, species and spacing	X		
66	Connectors to wall assemblies' include assemblies' resistance to uplift rating	X		
67	Valley framing and support details	_X		
68	Provide dead load rating of rafter system	X		
FB	CR 803 ROOF SHEATHING			
69	Include all materials which will make up the roof decking, identification of structural panel	. /		
}	sheathing, grade, thickness	\times		
70	Show fastener Size and schedule for structural panel sheathing on the edges & intermediate areas	~		

Floor Framing System: First and/or second story

ROOF ASSEMBLIES FRC Chapter 9

71	Include all materials which will make up the roof assembles covering	\times	
72	Submit Florida Product Approval numbers for each component of the roof assembles covering	У_	

FBCR Energy Conservation R.401

Residential construction shall comply with this code by using the following compliance methods in the Residential buildings compliance methods. Two of the required forms are to be submitted, R 402-2014 As an alternative to the computerized Compliance Method A, the Alternate Residential Point System Method hand calculation, Alternate Form R 402-2014, may be used. All requirements specific to this calculation are located in Sub appendix C to Appendix G. Buildings complying by this alternative shall meet all mandatory requirements of this chapter. Computerized versions of the Alternate Residential Point System Method shall not be acceptable for code compliance.

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL		Each I Ci Ap	s to Include- Box shall be Circled as Applicable	
		YES	NO	N/A
73	<u> </u>	Y.		
74		X		
-	Exterior wall cavity	X		
76	Crawl space	X		
H	VAC information			
77	Submit two copies of a Manual J sizing equipment or equivalent computation study	X		
78	Exhaust fans shown in bathrooms Mechanical exhaust capacity of 50 cfm intermittent or			11/2
	20 cfm continuous required			MA
79	Show clothes dryer route and total run of exhaust duct	<u>></u>		
Plu	umbing Fixture layout shown			
80	All fixtures waste water lines shall be shown on the foundation plan	<u> </u>		
81	Show the location of water heater	7		
Pr	ivate Potable Water			
82	Pump motor horse power	+		
83	Reservoir pressure tank gallon capacity	L		
84	Rating of cycle stop valve if used	Ŝ		
Ele	ectrical layout shown including			
85	Show Switches, receptacles outlets, lighting fixtures and Ceiling fans	+		
86				
	by Ground-Fault Circuit Interrupter (GFCI) Article 210.8 A	X		
87	Show the location of smoke detectors & Carbon monoxide detectors	Y		
88	Show service panel, sub-panel, location(s) and total ampere ratings	X		
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.	X		
	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	,		
90	Appliances and HVAC equipment and disconnects	入		
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 arc-fault circuit interrupter , Protection device. NEC 210.12A	λ		

GENERAL REQUIREMENTS: APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

Items to Include-Each Box shall be Circled as Applicable

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

		YES	NO	N/A
92	Building Permit Application A current Building Permit Application is to be completed, by following the Checklist all supporting documents must be submitted. There is a \$15.00 application fee. The completed application with attached documents and application fee can be mailed.	>		
93	Parcel Number The parcel number (Tax ID number) from the Property Appraisers Office (386) 758-1083 is required. A copy of property deed is also required. www.columbiacountyfla.com	X		
94	Environmental Health Permit or Sewer Tap Approval A copy of a approved Columbia County Environmental Health (386) 758-1058			
95	City of Lake City A City Water and/or Sewer letter. Call 386-752-2031			MA
96	Toilet facilities shall be provided for all construction sites	×		
97	Town of Fort White (386) 497-2321 If the parcel in the application for building permit is within the Corporate city limits of Fort White, an approval land use development letter issued by the Town of Fort is required to be submitted with the application for a building permit.			MA
98	Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting a application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.5.2 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.5.3 of the Columbia County Land Development Regulations			NA
99	CERTIFIED FINISHED FLOOR ELEVATIONS will be required on any project where the approved FIRM Flood Maps show the property is in a AE, Floodway, and AH flood zones. Additionally One Foot Rise letters are required for AE and AH zones. In the Floodway Flood zones a Zero Rise letter is required.	X		41/1
101	Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. County Public Works Dept. determines the size 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.	X		N/A
102	911 Address: An application for a 911address must be applied for and received through the Columbia County Emergency Management Office of 911 Addressing Department (386) 758-1125.	X		

<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			(1)
A. SWINGING	Masonite	Fiberglass Ext. Noor Composite J	M FL4334-KY
B. SLIDING			
C. SECTIONAL/ROLL UP			
D. OTHER			[6]
2. WINDOWS			12/1/2000
A. SINGLE/DOUBLE HUNG	Magnolia	Vinyle Single Hung W/Low & Gtz	SFL16413-Ril
B. HORIZONTAL SLIDER		, , ,	1
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			1 11 5000
B. SOFFITS	Kaycan	Alum. Soffets	FL16503-R1
C. STOREFRONTS	/		
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES	Certainteed	30 YR Architectural	FL 5444-R8
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			1
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			3
B. WOOD ANCHORS			
C. TRUSS PLATES	Alpine	Truss Plates	FL1999-3
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
ENVELOPE PRODUCTS			

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.

Watter A. lehs	9-3-19	
Contractor OR Agent Signature	Date	NOTES:
/		



This document has been electronically signed and sealed using a Digital Signature. Printed copies without an original signature must be verified using the original electronic version.



Alpine, an ITW Company 6750 Forum Drive, Suite 305 Orlando, FL 32821 Phone: (800)755-6001 www.alpineitw.com

#0 278 09/27/2019

Site Information:	Page 1:
Customer: Seminole Trusses, Inc.	Job Number: B50184a
Job Description: -Touchtone Res Erkinger Home Builders	
Address: LAKE CITY, FL	

Job Engineering Criteria:	
Design Code: FBC 2017 RES	IntelliVIEW Version: 18.02.01A
	JRef #: 1WOU8570005
Wind Standard: ASCE 7-10 Wind Speed (mph): 130	Roof Load (psf): 20.00-7.00-0.00-10.00
Building Type: Closed	Floor Load (psf): None

This package contains general notes pages, 7 truss drawing(s) and 1 detail(s).

Item	Seal #	Truss
1	269.19.1640.13476	GE1
3	269.19.1640.13537	T-1
5	269.19.1640.13475	T-3
7	269.19.1640.13506	TT1

Item	Seal #	Truss
2	269.19.1640.13552	GE2
4	269.19.1650.17743	T-2
6	269.19.1640.13553	T3A
8	REPCHRD1014	



General Notes

Truss Design Engineer Scope of Work, Design Assumptions and Design Responsibilities:

The design responsibilities assumed in the preparation of these design drawings are those specified in ANSI/TPI 1, Chapter 2, and the National Design Standard for Metal Plate Connected Wood Truss Construction, by the Truss Plate Institute. The truss component designs conform to the applicable provisions of ANSI/TPI 1 and NDS, the National Design Specification for Wood Construction by AF&PA. The truss component designs are based on the specified loading and dimension information furnished by others to the Truss Design Engineer. The Truss Design Engineer has no duty to independently verify the accuracy or completeness of the information provided by others and may rely on that information without liability. The responsibility for verification of that information remains with others neither employed nor controlled by the Truss Design Engineer. The Truss Design Engineer's seal and signature on the attached drawings, or cover page listing these drawings, indicates acceptance of professional engineering responsibility solely for the truss component designs and not for the technical information furnished by others which technical information and consequences thereof remain their sole responsibility.

The suitability and use of these drawings for any particular structure is the responsibility of the Building Designer in accordance with ANSI/TPI 1 Chapter 2. The Building Designer is responsible for determining that the dimensions and loads for each truss component match those required by the plans and by the actual use of the individual component, and for ascertaining that the loads shown on the drawings meet or exceed applicable building code requirements and any additional factors required in the particular application. Truss components using metal connector plates with integral teeth shall not be placed in environments that will cause the moisture content of the wood in which plates are embedded to exceed 19% and/or cause corrosion of connector plates and other metal fasteners.

The Truss Design Engineer shall not be responsible for items beyond the specific scope of the agreed contracted work set forth herein, including but not limited to: verifying the dimensions of the truss component, calculation of any of the truss component design loads, inspection of the truss components before or after installation, the design of temporary or permanent bracing and their attachment required in the roof and/or floor systems, the design of diaphragms or shear walls, the design of load transfer connections to and from diaphragms and shear walls, the design of load transfer to the foundation, the design of connections for truss components to their bearing supports, the design of the bearing supports, installation of the truss components, observation of the truss component installation process, review of truss assembly procedures, sequencing of the truss component installation, construction means and methods, site and/or worker safety in the installation of the truss components and/or its connections.

This document may be a high quality facsimile of the original engineering document which is a digitally signed electronic file with third party authentication. A wet or embossed seal copy of this engineering document is available upon request.

Temporary Lateral Restraint and Bracing:

Temporary lateral restraint and diagonal bracing shall be installed according to the provisions of BCSI chapters B1, B2, B7 and/or B10 (Building Component Safety Information, by TPI and SBCA), or as specified by the Building Designer or other Registered Design Professional. The required locations for lateral restraint and/or bracing depicted on these drawings are only for the permanent lateral support of the truss members to reduce buckling lengths, and do not apply to and may not be relied upon for the temporary stability of the truss components during their installation.

Permanent Lateral Restraint and Bracing:

The required locations for lateral restraint or bracing depicted on these drawings are for the permanent lateral support of the truss members to reduce buckling lengths. Permanent lateral support shall be installed according to the provisions of BCSI chapters B3, B7 and/or B10, or as specified by the Building Designer or other Registered Design Professional. These drawings do not depict or specify installation/erection bracing, wind bracing, portal bracing or similar building stability bracing which are parts of the overall building design to be specified, designed and detailed by the Building Designer.

Connector Plate Information:

Alpine connector plates are made of ASTM A653 or ASTM A1063 galvanized steel with the following designations, gauges and grades: W=Wave, 20ga, grade 40; H=High Strength, 20ga, grade 60; S=Super Strength, 18ga, grade 60. Information on model code compliance is contained in the ICC Evaluation Service report ESR-1118, available on-line at www.icc-es.org.

General Notes (continued)

Key to Terms:

Information provided on drawings reflects a summary of the pertinent information required for the truss design. Detailed information on load cases, reactions, member lengths, forces and members requiring permanent lateral support may be found in calculation sheets available upon written request.

BCDL = Bottom Chord standard design Dead Load in pounds per square foot.

BCLL = Bottom Chord standard design Live Load in pounds per square foot.

Des Ld = total of TCLL, TCDL, BCLL and BCDL Design Load in pounds per square foot.

HORZ(LL) = maximum Horizontal panel point deflection due to Live Load, in inches.

HORZ(TL) = maximum Horizontal panel point long term deflection in inches, due to Total Load, including creep adjustment.

HPL = additional Horizontal Load added to a truss Piece in pounds per linear foot or pounds.

L/# = user specified divisor for limiting span/deflection ratio for evaluation of actual L/defl value.

L/defl = ratio of Length between bearings, in inches, divided by the immediate vertical Deflection, in inches, at the referenced panel point. Reported as 999 if greater than or equal to 999.

Loc = Location, starting location of left end of bearing or panel point (joint) location of deflection.

Max BC CSI = Maximum bending and axial Combined Stress Index for Bottom Chords for of all load cases.

Max TC CSI = Maximum bending and axial Combined Stress Index for Top Chords for of all load cases.

Max Web CSI= Maximum bending and axial Combined Stress Index for Webs for of all load cases.

NCBCLL = Non-Concurrent Bottom Chord design Live Load in pounds per square foot.

PL = additional Load applied at a user specified angle on a truss Piece in pounds per linear foot or pounds.

PLB = additional vertical load added to a Bottom chord Piece of a truss in pounds per linear foot or pounds

PLT = additional vertical load added to a Top chord Piece of a truss in pounds per linear foot or pounds.

PP = Panel Point.

R = maximum downward design Reaction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

-R = maximum upward design Reaction, in pounds, from all specified gravity load cases, at the identified location (Loc).

Rh = maximum horizontal design Reaction in either direction, in pounds, from all specified gravity load cases, at the indicated location (Loc).

RL = maximum horizontal design Reaction in either direction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

Rw = maximum downward design Reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the identified location (Loc).

TCDL = Top Chord standard design Dead Load in pounds per square foot.

TCLL = Top Chord standard design Live Load in pounds per square foot.

U = maximum Upward design reaction, in pounds, from all specified non-gravity (wind or seismic) load cases, at the indicated location (Loc).

VERT(CL) = maximum Vertical panel point deflection in inches due to Live Load and Creep Component of Dead Load in inches.

VERT(LL) = maximum Vertical panel point deflection in inches due to Live Load.

VERT(TL) = maximum Vertical panel point long term deflection in inches due to Total load, including creep adjustment. W = Width of non-hanger bearing, in inches.

Refer to ASCE-7 for Wind and Seismic abbreviations.

Uppercase Acronyms not explained above are as defined in TPI 1.

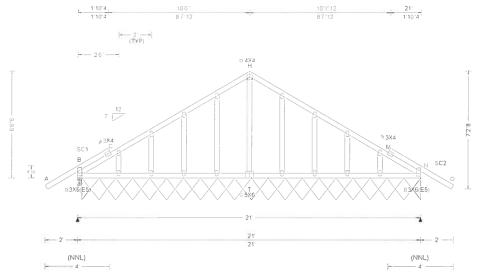
References:

- 1. AF&PA: American Forest & Paper Association, 1111 19th Street, NW, Suite 800, Washington, DC 20036; www.afandpa.org.
- 2. ICC: International Code Council; www.iccsafe.org.
- 3. Alpine, a division of ITW Building Components Group Inc.: 13723 Riverport Drive, Suite 200, Maryland Heights, MO 63043; www.alpineitw.com.
- 4. TPI: Truss Plate Institute, 218 North Lee Street, Suite 312, Alexandria, VA 22314; www.tpinst.org.
- 5. SBCA: Wood Truss Council of America, 6300 Enterprise Lane, Madison, WI 53719; www.sbcindustry.co

 SEQN: 53738 /
 GABL
 Ply: 1
 Job Number: B50184a
 Cust R 857 JRef: 1WOU8570005 T2

 FROM: CVB
 Qty: 1
 -Touchtone Res Erkinger Home Builders
 DrwNo: 269.19.1640.13476

 Truss Label: GE1
 SSB / DF 09/26/2019



Loading Criteria (psf) Wind Criteria TCLL: 20 00 Wind Std: ASCE 7-10		Snow Criteria (Pg,Pf in PSF) Pg: NA Ct: NA CAT: NA	Defl/CSI Criteria PP Deflection in loc L/defl L/#	▲ Maximum Reactions (Ib Gravity	s), or *=PLF Non-Gravity	
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.001 H 999 240	Loc R+ /R- /Rh	/Rw /U /RL	
BCLL: 0.00 BCDL: 10.00	Enclosure: Closed Risk Category: II EXP: C Kzt: NA	Lu: NA Cs: NA Snow Duration: NA	VERT(CL): 0.001 G 999 240 HORZ(LL): 0.002 K	N* 76 /- /-	/146 /72 /213 /38 /16 /-	
Des Ld: 37,00 NCBCLL: 10,00 Soffit: 0,00 Load Duration: 1,25 Spacing: 24,0 "	Mean Height: 15.00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft	Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes	HORZ(TL): 0.002 K Creep Factor: 2.0 Max TC CSI: 0.193 Max BC CSI: 0.032 Max Web CSI: 0.066	Wind reactions based on M B Brg Width = 3.0 N Brg Width = 249 Bearings B & B are a rigid s Members not listed have fo	Min Req = 1.5 Min Req = - surface.	
, ,	Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60	FT/RT:20(0)/10(0) Plate Type(s): WAVE	VIEW Ver: 18.02.01A.0205.20			

Lumber

Top chord 2x4 SP #1 Bot chord 2x4 SP #1 Webs 2x4 SP #3 Stack Chord SC1 2x4 SP #1 Stack Chord SC2 2x4 SP #1

Plating Notes

All plates are 2X4 except as noted.

Plates sized for a minimum of 3.50 sq.in./piece.

Wind

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

DWGS A16015ENC101014 & GBLLETIN0118 for more requirements.



09/27/2019

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec. 2.



For more information see this job's general notes page and these web sites: ALPINE: www alpineitw.com, TPI. www.tpinst.org.; SBCA: www.sbcindustry.com, ICC www.iccsafe.org

SEQN 53727 / FROM: CVB

GABL Ply 1

Qty 2

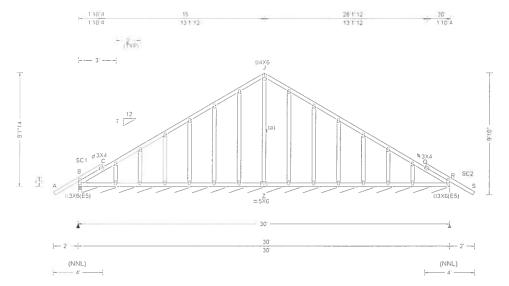
Job Number: B50184a

-Touchtone Res Erkinger Home Builders

Truss Label: GE2

Cust R 857 JRef 1WOU8570005 T6 DrwNo: 269 19 1640 13552

09/26/2019



Loading Criteria (psi
TCLL: 20.00
TCDL: 7.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 37.00
NCBCLL: 10.00
Soffit: 0.00
Load Duration: 1.25
Spacing: 24.0 "

Wind Criteria Wind Std: ASCE 7-10 Speed: 130 mph Enclosure: Closed Risk Category: II EXP: C Kzt: NA Mean Height: 15,00 ft TCDL: 4.2 psf BCDL: 5.2 psf MWFRS Parallel Dist: 0 to h/2 C&C Dist a: 3.00 ft Loc. from endwall: Any GCpi: 0.18 Wind Duration: 1.60

Pg: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bidg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT;20(0)/10(0)

Defl/CSI Criteria Snow Criteria (Pg,Pf in PSF) Ct: NA CAT: NA PP Deflection in loc L/defl L/# VERT(LL): 0.002 J 999 240 VERT(CL): 0.003 Q 999 240 HORZ(LL): 0.005 Q HORZ(TL): 0.007 Q Creep Factor: 2.0 Max TC CSI: 0.193 Max BC CSI: 0.048 Max Web CSI: 0.147 VIEW Ver: 18.02.01A.0205.20

▲ Maximum Reactions (lbs), or *=PLF							
Gravity				Non-Gravity			
Loc R+ /R- /Rh				/ Rw	/ U	/ RL	
В	257	/-	/-	/127	/80	/352	
R*	76	/-	/-	/36	/16	/-	
Wine	d read	ctions b	ased on N	/IWFRS			
В	B Brg Width = 3.5 Min Reg = 1.5						
R	Brg V	Vidth =	356	Min Re	q = -		
Bearings B & B are a rigid surface.							
Members not listed have forces less than 375#							

Lumber

Top chord 2x4 SP #1 Bot chord 2x4 SP #1 Webs 2x4 SP #3 Stack Chord SC1 2x4 SP #1: Stack Chord SC2 2x4 SP #1

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 1x4 #3SRB SPF-S or better "T" reinforcement. 80% length of web member. Attached with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" oc.

Plating Notes

All plates are 2X4 except as noted. Plates sized for a minimum of 3.50 sq.in./piece.

Wind loads based on MWFRS with additional C&C member design

Right end vertical exposed to wind pressure. Deflection meets L/180

DWGS A16015ENC101014 & GBLLETIN0118 for more requirements

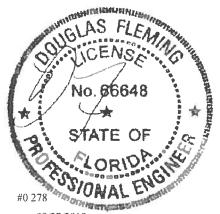
Additional Notes

Plate Type(s):

WAVE

Refer to General Notes for additional information

Stacked top chord must NOT be notched or cut in area (NNL). Dropped top chord braced at 24" oc intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3x4 tie-plates 24" oc. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length, Splice top chord in notchable area using 3x6.



09/27/2019

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Alpine, a division of ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation and bracing of trusses A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec.2.

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For more information see this job's general notes page and these web sites. ALPINE www.alpineitw.com, TPI, www.tpinst.org, SBCA www.sbcindustry.com, ICC www.iccsafe.org

SEQN: 53734 / COMN Ply: 1 Job Number: B50184a Cust R 857 JRef 1WOU8570005 T1 FROM: CVB DrwNo: 269.19.1640.13537 Qty: 8 -Touchtone Res Erkinger Home Builders SSB / DF 09/26/2019 Truss Label: T-1 5"3"13 10'6' 1583 21' 53"13 5'2"3 5'2"3 5'3"13 = 3X4(B2) = 3X4(B2) 10'6"

Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg.Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (Ib	s)
TCLL: 20.00	Wind Std: ASCE 7-10	1 4	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
TCDL: 7.00	Speed: 130 mph	Pf NA Ce NA	VERT(LL): 0.038 H 999 240	Loc R+ /R- /Rh	/Rw /U /RL
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.069 H 999 240	B 908 /- /-	/529 /196 /215
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.018 H	F 908 /- /-	/529 /196 /-
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.032 H	Wind reactions based on M	WFRS
NCBCLL: 10.00	Mean Height: 15,00 ft	Code / Misc Criteria	Creep Factor: 2.0	5	Min Req = 1.5
Soffit: 0.00	TCDL: 4.2 psf BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.277	1	Min Req = 1.5
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI: 0.804	Bearings B & F are a rigid s	
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.213	Members not listed have for	
,g,	Loc. from endwall. Any	FT/RT:20(0)/10(0)		Maximum Top Chord Ford Chords Tens.Comp. C	hords Tens. Comp.
	GCpi: 0.18	Plate Type(s):		Chords Tens.Comp. C	nords rens. Comp.
	Wind Duration: 1.60	WAVE	VIEW Ver: 18.02,01A,0205,20		- E 307 - 861

Lumber

Top chord 2x4 SP #1 Bot chord 2x4 SP #1 Webs 2x4 SP #3

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece

Wind loads based on MWFRS with additional C&C member design

Additional Notes

Refer to General Notes for additional information

Maximum Bot Chord Forces Per Ply (lbs) Chords Tens.Comp. Chords Tens. Comp. 905 B - H 905 - 193 - 206

Maximum Web Forces Per Ply (lbs) Webs Tens.Comp.

D-H 559 - 146

#0 278

09/27/2019

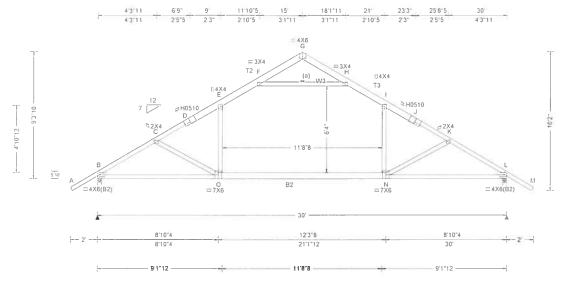
WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

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6750 Forum Drive Suite 305 Orlando FL, 32821 SEQN 53826 COMN Plv 1 Job Number: B50184a Cust R 857 JRef 1WOU8570005 T5 FROM: CVB Qty 14 Touchtone Res Erkinger Home Builders DrwNo 269 19 1650 17743 09/26/2019 Truss Label: T-2 JB. / DE



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL) 0.410 N 873 240
BCLL: 0.00	Enclosure: Closed	Lu. NA Cs: NA	VERT(CL): 0,794 O 451 240
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL) 0.206 E
Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.424 E
NCBCLL: 10,00	Mean Height: 15,00 ft TCDL: 4.2 psf	Code / Misc Criteria	Creep Factor: 2.0
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI 0.997
Load Duration: 1,25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSI 0.922
Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.946
	Loc. from endwall: Any	FT/RT:20(0)/10(0)	
	GCpi; 0.18	Plate Type(s):	
	Wind Duration: 1,60	WAVE, HS	VIEW Ver: 18.02.01A.0205.20

Lumber

Top chord 2x4 SP #1 T2, T3 2x6 SP #1 Bot chord 2x4 SP #1 B2 2x6 SP #1 Webs 2x4 SP #3 W3 2x4 SP M-30: :Lt Wedge 2x4 SP #3::Rt Wedge 2x4 SP #3

Bracing

(a) Continuous lateral restraint equally spaced on member. Or 2x4 #3 or better "T" reinforcement 80% length of web member. Attached with 10d Box or Gun (0.128"x3",min.)nails @ 6" oc.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance

Wind loads based on MWFRS with additional C&C member design.

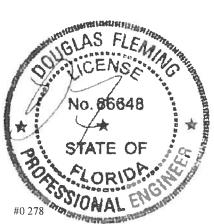
Additional Notes

Refer to General Notes for additional information

Collar-tie braced with continuous lateral bracing at 24" OC. or rigid ceiling

-----(Lumber Dur.Fac.=1.25 / Plate Dur.Fac.=1.25) TC: From 56 plf at -2.00 to 56 plf at 32 BC: From 20 plf at 0.00 to 20 plf at 30.00 BC From 40 plf at 9.27 to 40 plf at

Special loads



▲ Maximum Reactions (lbs)

	Gravity			Non-Gravity				
	Loc	R+	/ R-	/ Rh	/Rw	/ U	/ RL	
	В	1482	/-	/-	/711	/264	/282	
	L	1484	/-	/-	/711	/264	/-	
	Win	d read	tions I	based on	MWFRS			
	B Brg Width = 3.5			Min Re	q = 1.7			
	L	Brg V	Vidth =	3.5	Min Reg = 1.8			
	Bearings B & L are a rigid			d surface.	•			
	Men	nbers	not lis	ted have	forces les	s than 3	375#	
	Maximum Top Chord Forces Per Ply (lbs)						s)	
	Cho	rds T	ens.C	omp.	Chords	Tens.	Comp.	
	B - 0		589	2294	G - H	494	- 78	
J	C - [)	499	1998	H - I	500	- 1553	
		_						

B - C	589 - 2294	G - H	494	- 78
C - D	499 - 1998	H - I	500	- 1553
D - E	511 - 1929	l - J	510	- 1931
E-F	500 - 1554	J - K	498	- 2000
F - G	533 - 78	K - L	588	- 2298

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
B - O	1906	- 378	N - L	1909	- 403	
O - N	1598	- 227				

Maximum Web Forces Per Ply (lbs)

vvebs	rens.Comp.	vvebs	Tens. Con	ηp.
C - O	204 - 467	I - N	630 -	51
0 - E	642 - 52	N - K	203 - 4	117
F - H	667 - 2169			



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For more information see this job's general notes page and these web sites. ALPINE. www.alpineitw.com, TPI. www.tpinst.org, SBCA: www.sbcindustry.com, ICC: www.iccsafe.org

SEQN 53720 / COMN Ply 1 Job Number: B50184a Cust R 857 JRef 1WOU8570005 T9 FROM CVB Qty 9 -Touchtone Res Erkinger Home Builders DrwNo 269 19 1640.13475 Truss Label: T-3 SSB / DF 09/26/2019 132X4 29'8"8 3 8 3 8

Snow Criteria (Pg,Pf in PSF)	Defl/CSI Criteria	▲ Maximum Reactions (It	os)
Pa: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity	Non-Gravity
Pf: NA Ce: NA	VERT(LL): 0.309 G 999 240	Loc R+ /R- /Rh	/Rw /U /RL
Lu: NA Cs: NA	, , , , , , , , , , , , , , , , , , , ,		/619 /30 /223
Snow Duration: NA	HORZ(LL) 0.277 F	E 1159 /- /-	/619 /30 /-
	HORZ(TL): 0.535 F	Wind reactions based on M	IWFRS
Code / Misc Criteria	Creep Factor 2.0	A Brg Width = 3.5	Min Req = 1.5
Bldg Code: FBC 2017 RES	Max TC CSI 0 885	9	Min Req = 1.5
TPI Std: 2014	Max BC CSI 0.644		
'	Max 1100 CCI, 5,00 i		
1 ' ' '		Chords Tens.Comp. C	chords Tens Comp
** **		A D 769 3705 C	C - D 490 - 2667
WAVE	VIEW Ver: 18.02.01A.0205.20) - E 768 - 3705
	Pg: NA Ct: NA CAT: NA Pf: NA Ce: NA Lu: NA Cs: NA Snow Duration: NA Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes	Pg: NA Ct: NA CAT: NA PF Deflection in loc L/defl L/# VERT(LL): 0.309 G 999 240 VERT(CL): 0.597 G 603 240 NERT(CL): 0.535 F Code / Misc Criteria Bldg Code: FBC 2017 RES TPI Std: 2014 Rep Fac: Yes FT/RT:20(0)/10(0) Plate Type(s):	Pg: NA Ct: NA CAT: NA PP Deflection in loc L/defl L/# Gravity Pf: NA Ce: NA VERT(LL): 0.309 G 999 240 VERT(LL): 0.597 G 603 240 A 1159 /- /- Lu: NA Cs: NA VERT(CL): 0.597 G 603 240 A 1159 /- /- Snow Duration: NA HORZ(LL): 0.535 F HORZ(TL): 0.535 F HORZ(TL): 0.535 F Wind reactions based on Max TC CSI: 0.885 TPI Std: 2014 Max BC CSI: 0.644 Rep Fac: Yes Max Web CSI: 0.954 FT/RT:20(0)/10(0) Plate Type(s): WAVE VIEW Ver: 18.02 01A,0205,20 Gravity Loc R+ /R- /Rh A 1159 /- /- Wind reactions based on Max BG Width = 3.5 Berg Width = 3.5 Bearings A & E are a rigid of Maximum Top Chord For Chords Tens Comp. Max Web CSI: 0.954 Maximum Top Chord For Chords Tens Comp. Chords Tens Comp. Chords Tens Comp.

Lumber

Top chord 2x4 SP #1 Bot chord 2x4 SP #1 Webs 2x4 SP #3

Lt Stub Wedge 2x4 SP #3 Rt Stub Wedge 2x4 SP #3:

Plates sized for a minimum of 3.50 sq.in./piece.

Wind loads based on MWFRS with additional C&C member design.

Additional Notes

Refer to General Notes for additional information

waximum Bot Chord Forces Per Ply (lbs)						
Chords	Tens (Comp	Chords	Tens	Comp	
A - H	3261	- 607	G - F	3277	- 580	

F-E H-G 3277 - 590 3261 - 606

Maximum Web Forces Per Ply (lbs) Tens. Comp. Webs Tens Comp Webs B-G 375 - 871 C-G 2162 - 307 G-D 375 - 871



WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS

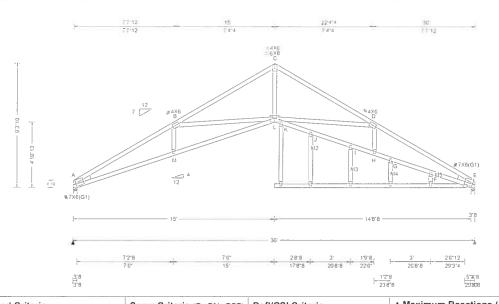
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6750 Forum Drive Suite 305 Orlando FL, 32821

For more information see this job's general notes page and these web sites: ALPINE: www.alpineitw.com; TPI www.tpinst.org; SBCA www.sbcindustry.com; ICC: www.iccsafe.org

SEQN:: 53741 / COMN Ply. 1 Job Number: B50184a Cust R 857 JRef 1WOU8570005 T3 FROM CVB -Touchtone Res Erkinger Home Builders DrwNo 269 19 1640 13553 Qty 1 Truss Label: T3A SSB / DF 09/26/2019



	Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg,Pf in PSF)	DefI/CSI Criteria	▲ Maximum Reactions (lbs)
İ	TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT: NA	PP Deflection in loc L/defl L/#	Gravity
	TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL): 0.333 J 999 240	Loc R+ /R- /Rh /
	BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL): 0.643 J 559 240	A 1159 /- /- /
	BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL): 0.276 F	E 1159 /- /- /-
J	Des Ld: 37.00	EXP: C Kzt: NA		HORZ(TL): 0.532 F	Wind reactions based on MWF
1	NCBCLL: 10.00	Mean Height: 15.00 ft	Code / Misc Criteria	Creep Factor: 2.0	A Brg Width = 3.5 Mi
I	Soffit: 0.00	TCDL: 4.2 psf BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.887	E Brg Width = 3.5 Mi
I	Load Duration: 1.25	MWFRS Parallel Dist: h to 2h	TPI Std: 2014	Max BC CSI: 0.658	Bearings A & E are a rigid surf
	Spacing: 24.0 "	C&C Dist a: 3.00 ft	Rep Fac: Yes	Max Web CSI: 0.953	Members not listed have force
		Loc. from endwall: not in 9.00 ft	FT/RT:20(0)/10(0)		Maximum Top Chord Forces
			, , , ,		Chords Tens.Comp. Chor
		GCpi: 0.18 Wind Duration: 1.60	Plate Type(s): WAVE	VIEW Ver: 18.02.01A.0205.20	A - B 807 - 3704 C - D
		·	I		P.C 536 3668 D F

Lumber

Top chord 2x4 SP #1 Bot chord 2x4 SP #1 Webs 2x4 SP #3 :M2, M3, M4, M5 2x4 SP #1: Filler 2x4 SP #1 :Lt Stub Wedge 2x4 SP #3::Rt Stub Wedge 2x4 SP #3:

Plating Notes

All plates are 2X4 except as noted. Plates sized for a minimum of 3.50 sq.in./piece.

Laterally brace BC at 24" oc in lieu of rigid ceiling Laterally brace BC above filler at 24" oc

Wind loads based on MWFRS with additional C&C member design

Additional Notes

Refer to General Notes for additional information



Non-Gravity / Rw /U RL /613 /29 /256 /609 /38 VFRS Min Reg = 1.5 Min Req = 1.5ırface. es less than 375# es Per Ply (lbs) Tens. Comp ords

535 - 2667 E 791 - 3641

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.Comp.		Chords	Tens. Comp.		
A - M	3260	- 676	I - H	3177	- 628	
M - L	3277	- 660	H - G	3204	- 616	
L-K	3220	- 620	G-F	3187	- 619	
K - J	3203	- 622	F-E	3165	- 622	
J - I	3193	- 623				

Maximum Web Forces Per Ply (lbs)

Webs	Tens.Comp.		Webs	Tens. Comp.		
B-L		- 870	C - L	2161	- 352	

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!

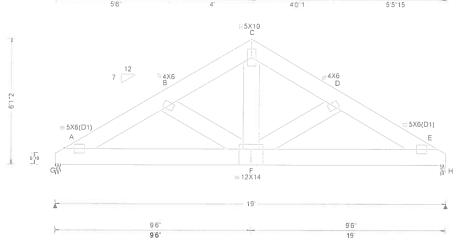
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SEON: 53752 / COMN Ply: 2 Job Number: B50184a Cust R 857 JRef: 1WOU8570005 T8 FROM: CVB Qty: 2 -Touchtone Res Erkinger Home Builders DryNo: 269 19 1640 13506 Truss Label: TT1 SSB / DF 09/26/2019 2 Complete Trusses Required 5'6 136 1 40.1 5'5"15 5X10



Loading Criteria (psf)	Wind Criteria	Snow Criteria (Pg Pf in PSF)	Defl/CSI Criteria	A
TCLL: 20.00	Wind Std: ASCE 7-10	Pg: NA Ct: NA CAT NA	PP Deflection in loc L/defl L/#	
TCDL: 7.00	Speed: 130 mph	Pf: NA Ce: NA	VERT(LL) 0.015 F 999 240	L
BCLL: 0.00	Enclosure: Closed	Lu: NA Cs: NA	VERT(CL) 0.028 F 999 240	G
BCDL: 10.00	Risk Category: II	Snow Duration: NA	HORZ(LL) 0 007 F	Н
Des Ld: 37.00	EXP: C Kzt: NA Mean Height: 15.00 ft		HORZ(TL): 0.013 F	V
NCBCLL: 10.00	TCDL: 4.2 psf	Code / Misc Criteria	Creep Factor: 2.0	G
Soffit: 0.00	BCDL: 5.2 psf	Bldg Code: FBC 2017 RES	Max TC CSI: 0.122	H
Load Duration: 1.25	MWFRS Parallel Dist: 0 to h/2	TPI Std: 2014	Max BC CSi 0 244	B
Spacing: 48.0 "	C&C Dist a: 3.00 ft	Rep Fac: No	Max Web CSI: 0 067	M
	Loc. from endwall: not in 4.50 ft	FT/RT:20(0)/10(0)		C
	GCpi: 0.18	Plate Type(s):		-
	Wind Duration: 1.60	WAVE	VIEW Ver 18 02 01A 0205.20	A

▲ IVI		ım Rea ravity	ctions	. ,	Non-Gravity					
Loc	R+	/ R-	/ Rh	/ Rw	/ U	/ RL				
G	1446	/-	/-	/759	/262	/265				
Н	1446	/-	/-	/738	/265	/-				
Win	d read	tions b	ased o	n MWFRS						
G	Brg V	Vidth =	3.0	Min Re	ea = 1.5	5				
Н		Vidth =			eq = 1.5					
Bea				id surface						
	-		-	forces les	s than :	375#				
				orces Per						
Cho	rds T	ens Co	mp	Chords	Tens	Comp				
A - E	3	298 -	1075	C - D	257	- 850				
B - 0			850	D - E	298	- 1075				

Top chord 2x10 SP #2

Bot chord 2x10 SP #2 Webs 2x10 SP #2

Nailnote

Lumber

Nail Schedule:0.128"x3", min. nails Top Chord: 1 Row @12.00" o.c. Bot Chord: 1 Row @12.00" o.c. Webs : 1 Row @ 4" o.c. Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

Plates sized for a minimum of 3.50 sq.in./piece.

Wind loads based on MWFRS with additional C&C member design

Additional Notes

Refer to General Notes for additional information

In lieu of structural panels or rigid ceiling use purlins to brace TC @ 24" OC, BC @24" OC.

Maximu	ım Bot	Chord	Forces Per	Ply (lbs	s)	
Chords	Tens (Comp	Chords	Tens Comp		
A - F	919	- 200	F-E	919	- 201	

Maximum Web Forces Per Ply (lbs)

Webs Tens Comp C - F 555 - 142



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Load Duration = 0% Member forces may be increased for Duration of Load Detail Repair Member Broken 0 Cracked

This drawing specifies repairs for a truss with broken chord

This design is valid only for single ply trusses with 2x4 or 2x6 broken members. No more than one break per chord panel and no more than two breaks per truss are allowed. Contact the truss manufacturer for any repairs that do not comply with this detail

- Damaged area, 12° max length of damaged section ll (B)
- (L) = Minimum nalling distance on each side of damaged area (B) (S) = Two 2x4 or two 2x6 side members, same size, arade, and Two 2x4 or two 2x6 slde members, same size, grade, and species as damaged member. Apply one scab per face. Minimum side member length(s) = (2)(L) + (B)

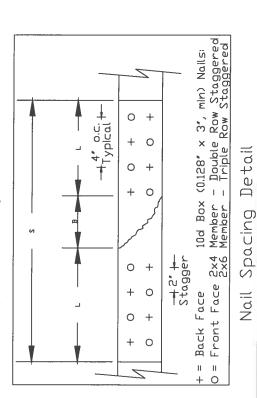
Nall Into 2x4 members using two (2) rows at 4' o.C., rows staggered. Nall Into 2x6 members using three (3) rows at 4' o.C., rows staggered. Nall using 10d box or gun nalls (0.128'x3', min) into each side member. member length (S) must be within the broken panel.

The maximum permitted lumber grade for use with this detail is limited to Visual grade #1 and MSR grade 1650f.

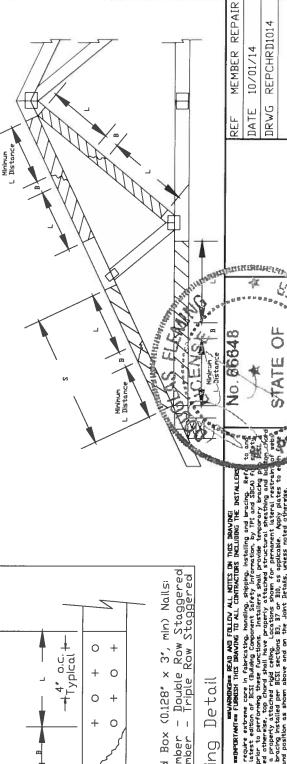
o t This repair detail may be used for broken connector plate mid-panel spilces.

web This repair detail may not be used for damaged chord or sections occurring within the connector plate area.

Broken chord may not support any tle-in loads



#008 1745# 1415# 2620# 2555# 3575# 3210# 4745# 5725# 4445# 3835# 40999 Force 1495# 730# 1295# 2245# 2315# 3125# 4295# 5225# 2930# 3505# 4070# #9609 DF-L Axial Maximum Member 3540# 635# 1055# 1055# 1585# 1960# 4200# 2365# 2530# 3635# 3045# 5280# 노 3460# 975# 1465# 975# 1910# 2230# 2470# 5165# 620# 3535# 2975# 43624 SPF-C 24, 36, <u>4</u>2 12, 18 30, 48, _ 2×4 2x6 2×4 2×4 2×4 OX4 2×6 p x 6 2x6 2×4 2×6 2x4 Chord Chord Chord Chard Chord Chord Chord Chord Chord Chord Member Web Only Web Only O 0 O 0 0 0 0 0 0 0 Web Web Web Web Web Web Web Web Web Web



AN ITW COMPANY 1/ 13723/ Riverport/ Drive 1/ Suite/ 200 1/ Maryland/ Heights./ MO/ 63043

Trusses require extreme care in fabricating, handling, shipping, installing and bracing. Ref. followed the latest edition of BESI (Budding Component Salety) information, by 171 and SEGN fits protectives prior to performing these functions. Installers shall provide tenporary bracing to lines a part of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the performance of the truss and position as shown above and on the John Betals, unless noted otherwise.

REPCHRD1014

DRWG

24.0" MAX

SPACING

ENGINE.

Alphe, a division of ITV Building Components Group Inc. shall not be responsible for any deviations deviation. The following any fallow to baild the truss in conformance with ANSI/TPI i, or for handling, ship installation i, bracing of frusters.

A seal on this diament on cover page Ustedly disk dreamly, indicates acceptance of professional expensionality solding the deviation. The subtability and use of this dreamly for any structure is the responsibility of the Building Designer per ANSI/TPI I Sec.2.

AL.PINE

and the state of t For nore information see this job's general notes page and these web sites: El wew.alpineitw.com, IPI: wew.tpinst.org, SBCA: wew.sbcindustry.org, ICC: wew.iccsafe.org



RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

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

	This checklist
	A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).
	Energy Performance Level (EPL) Display Card (one page)
	HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
	Mandatory Requirements (five pages)
Rec	quired prior to CO for the Performance Method:
	Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
	A completed Envelope Leakage Test Report (usually one page)
	If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)

FORM R405-2017

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: 191142 Touchton Street: City, State, Zip: Lake City, FL, Owner: Touchton Res 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(230.9 sqft.) a. U-Factor:	9. Wall Types (1280.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A R= ft² 10. Ceiling Types (1658.0 sqft.) b. N/A c. N/A R= ft² 11. Ducts a. Sup: Attic, Ret: Main, AH: Main 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 15. N/A R= R= R= R= R= R= R= R= R= R
Area Weighted Average Overhang Depth: 5.394 ft. Area Weighted Average SHGC: 0.200 8. Floor Types (1520.0 sqft.) Insulation Area a. Slab-On-Grade Edge Insulation R=0.0 1520.00 ft² b. N/A R= ft² c. N/A R= ft²	14. Hot water systems a. Propane Tankless Cap: 1 gallons EF: 0.900 b. Conservation features None 15. Credits Pstat
Glass/Floor Area: 0.152 Total Proposed Modifie	PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: Evan Beamsley DATE: 2019-10-14 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER AGENT AMAGENT Proof	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 7.00 ACH50 (R402.4.1.2).

FORM R405-2017 INPUT SUMMARY CHECKLIST REPORT

			-	PROJECT						 		
Title: Building Typ Owner Name # of Units: Builder Name Permit Office Jurisdiction: Family Type New/Existing Comment:	e: Touchton Res 1 ne: e: : Single-family		Bedrooms: Conditioned Total Stories Worst Case Rotate Angl Cross Venti Whole Hous	s: 1 : No e: 270 ation:			Lot # Block PlatE Stree Cour	k/Subdivi: Book: et:	sion: 1 C p: L	ot Informati 1-5S-17-09 columbia ake City , L ,		0
				CLIMATE		-						
V .	Design Location	TMY Site		Desig 97.5 %	n Temp 2.5 %		esign Tem r Summ		leating ree Day	Design s Moisture		Temp
	FL, Gainesville	FL_GAINESVILLE	_REGI	32	92	70	75	1	305.5	51	Me	edium
				BLOCKS								
Number	Name	Area	Volume									
1	Block1	1520	13300						_			
			_	SPACES								
Number	Name	Area	Volume Ki	tchen Oc	cupants	Bedroo	ms l	nfil ID	Finishe	d Cool	ed	Heate
1	Main	1520	13300	Yes	6	3	1		Yes	Yes		Yes
			-	FLOORS								
√ #	Floor Type	Space	Perim	eter R-\	/alue	Area				Tile Wo	od Ca	rpet
1:	Slab-On-Grade Edge	Insulatio Ma	ain 160 f	t	0	1520 ft²				0.3 0.3	3 0	1.4
				ROOF								
√ #	Туре	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg
1	Gable or shed	Composition shingl	es 1760 ft ²	444 ft²	Dark	N	0.92	No	0.9	No	22	30.3
				ATTIC								
√ #	Туре	Ventila	ation	Vent Ratio (1	in)	Area	RBS	IR	cc			
1	Full attic	Unver	nted	0		1520 ft²	N	1	N			
				CEILING		<u> </u>				•		·
V #	Ceiling Type		Space	R-Value	Ins T	уре	Area	Fran	ning Fra	c Truss	Туре	
1	Under Attic (Un	(antad)	Main	0	Blow	n	1658 ft²		0.07	Wo	nd	

FORM R405-2017	INPUT SUMMARY CHECKLIST REPORT
FURIVI K4U3-ZU I /	INPUT SUMMARY CHECKLIST REPORT

	N403-	-2017			INPUT	SUMMA	RY CHE	LLS	151 K	EPURI			-		
/			Adjace			-	Cavity	Wid	dth	Height		Sheathing	Francisco	Solar	Below
#	#О гп	ıt	To_	Wall	Туре	Space	R-Value	Ft	_ln	Ft In	Area	R-Value	Fraction	Absor.	Grade
1	N=>	•W E	xterior	Fran	me - Wood	Main	13	16	6	8	132.0 ft ²		0.23	0.75	0
2	N=>	•W E	xterior	Fran	me - Wood	Main	13	21		8	168.0 ft²		0.23	0.75	0
3	N=>	W E	xterior	Fran	me - Wood	Main	13	12	6	8	100.0 ft ²		0.23	0.75	0
4	E=>	N E	xterior	Fran	me - Wood	Main	13	30		8	240.0 ft ²		0.23	0.75	0
5	S=>	>E Ex	xterior	Fran	me - Wood	Main	13	15	6	8	124.0 ft ²		0.23	0.75	0
6	S=>	>E E:	xterior	Fran	me - Wood	Main	13	19		8	152.0 ft ²		0.23	0.75	0
7	S=>	>E E:	xterior	Fran	me - Wood	Main	13	15	6	8	124.0 ft ²		0.23	0.75	0
8	W=:	S E	xterior	Fran	me - Wood	Main	13	30		8	240.0 ft ²		0.23	0.75	0
							DO	ORS							-
$\sqrt{}$	#		Ornt	t	Door Type	Space			Storms	U-Val	ue Ft	Width In	Height Ft	ln	Area
	₂₅ 1		N=>V	٧	Insulated	Main			None	.4	3		6	8 :	20 ft²
	. 2		N=>V	٧	Insulated	Main			None	.4	2		6	8 1	3.3 ft ²
	_ 3		S=>E	Ξ	Insulated	Main			None	.4	1		6	8 6	5.7 ft²
				Ori	ientation shown i	s the entered		OWS =>) cha		As Built (ro	tated 270 d	egrees).			· · · -
\checkmark	#	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Area		hang Separation	Int Sha	de S	Screenin
	1	N=>W		Metal	Low-E Double	Yes	0.3	0.2	N	9.0 ft²	18 ft 6 in		None		None
	2	N=>W	2	Metal	Low-E Double	Yes	0.3	0.2	N	22.2 ft²	18 ft 6 in	0 ft 0 in	None)	None
	3	N=>W	3	Metal	Low-E Double	Yes	0.3	0.2	N	2.0 ft ²	1 ft 6 in	0 ft 6 in	None	•	None
	4	E=>N	4	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	1 ft 6 in	5 ft 0 in	None)	None
	5	S=>E	5	Metal	Low-E Double	Yes	0.3	0.2	N	36.0 ft²	1 ft 6 in	0 ft 6 in	None)	None
	6	S=>E	6	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	8 ft 0 in	1 ft 0 in	None)	None
	7	S=>E	6	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft²	8 ft 0 in	1 ft 0 in	None	•	None
	8	S=>E	6	Metal	Low-E Double	Yes	0.3	0.2	N	13.3 ft²	8 ft 0 in	1 ft 0 in	None)	None
	9	S=>E	7	Metal	Low-E Double	Yes	0.3	0.2	N	30.0 ft²	1 ft 6 in	0 ft 6 in	None)	None
	10	W=>S	8	Metal	Low-E Double	Yes	0.3	0.2	N	45.0 ft ²	1 ft 6 in	6 ft 0 in	None	•	None
							INFILT	RATIO	ON						·
	Scope		٨	/lethod		SLA	CFM 50	ELA		ΞqLA	ACH	ACI	⊣ 50		
¥	-1			osed AC	:H(50) .0	00389	1551.7	85.18	-	160.2	.1518		7		
	holehou							_		·					
	holehou						HEATING	SYS	TEM						
	holehou #		stem T	уре	S	Subtype	HEATING	SYS	TEM Efficiend	су	Capacity		E	Block	Ducts

INPUT SUMMARY CHECKLIST REPORT FORM R405-2017 COOLING SYSTEM # System Type Subtype Air Flow SHR Efficiency Capacity Block **Ducts** 1 Central Unit/ SEER: 15 25 kBtu/hr 0.75 None 750 cfm 1 sys#1 **HOT WATER SYSTEM** # System Type SubType Location EF Use SetPnt Cap Conservation 1 Propane Tankless Main 0.899999 1 gal 60 gal 120 deg None SOLAR HOT WATER SYSTEM **FSEC** Collector Storage Cert # Company Name System Model # Collector Model # Volume FEF Area None None **DUCTS** ---- Supply ---- Return ----Air CFM 25 CFM25 HVAC# # Location R-Value Area Location Leakage Type Handler TOT OUT QN **RLF** Heat Cool 1 Attic 304 ft² 1 ft² (Default) (Default) Main Default Leakage Main 1 1 **TEMPERATURES** Programable Thermostat: Y Ceiling Fans: [] May [] May [] May Cooling Heating Venting Jan X Jan Jan Feb Feb [] Mar [X] Mar [X] Mar [X] Jun | Jun | Jun [X] Jul Jul]] Jul [X] Aug | Aug | Aug Sep Sep Sep [] Nov [X] Nov [X] Nov Dec Dec Dec Thermostat Schedule: HERS 2006 Reference Hours Schedule Type 3 4 5 6 7 8 9 10 12 11 Cooling (WD) AM PM 78 80 78 80 78 78 78 78 78 78 78 78 78 78 78 78 80 78 80 78 80 78 Cooling (WEH) 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 78 AM PM 78 78 78 78 Heating (WD) 66 68 66 68 66 68 66 68 68 68 68 68 68 68 68 68 68 66 66 Heating (WEH) 66 68 68 68 68 66

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 87

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
		a) Supply ducts R 6.0
Single-family or multiple-family	2. Single-family	b) Return ducts R 6.0
2. 11 5 12. //5 11. 1	2 4	c) AHU location Main
3. No. of units (if multiple-family)	31	
4. Number of bedrooms	4. 3	13. Cooling system: Capacity 25.0
4. Number of Beardonia	T	a) Split system SEER
5. Is this a worst case? (yes/no)	5. No .	b) Single package SEER
, , , , , , , , , , , , , , , , , , ,		c) Ground/water source SEER/COP
6. Conditioned floor area (sq. ft.)	6. 1520	d) Room unit/PTAC EER
		e) Other15.0
7. Windows, type and area		
a) U-factor:(weighted average)	7a. <u>0.300</u>	
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.200</u>	14. Heating system: Capacity 25.0
c) Area	7c. 230.9	a) Split system heat pump HSPF
		b) Single package heat pump HSPF
8. Skylights		c) Electric resistance COP
a) U-factor:(weighted average)	8aNA	d) Gas furnace, natural gas AFUE
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	e) Gas furnace, LPG AFUE
O. Floority of insulation levels		f) Other 8.60
9. Floor type, insulation level:	0.0	
a) Slab-on-grade (R-value) b) Wood, raised (R-value)	9a0.0_	15. Water heating system
c) Concrete, raised (R-value)	9b	a) Electric resistance
c) Concrete, raised (R-value)	9c	b) Gas fired, natural gas EF
10. Wall type and insulation:		c) Gas fired, Hattifal gas CF c) Gas fired, LPG EF 0.90
A. Exterior:		d) Solar system with tank EF
Wood frame (Insulation R-value)	10A113.0	e) Dedicated heat pump with tank EF
Masonry (Insulation R-value)	10A2	f) Heat recovery unit HeatRec%
B. Adjacent:		g) Other
Wood frame (Insulation R-value)	10B1	5, 0
2. Masonry (Insulation R-value)	10B2.	
, , , , , , , , , , , , , , , , , , , ,		16. HVAC credits claimed (Performance Method)
11. Ceiling type and insulation level		a) Ceiling fans
a) Under attic	11a0.0	b) Cross ventilation No
b) Single assembly	11b	c) Whole house fan No
c) Knee walls/skylight walls	11c	d) Multizone cooling credit
d) Radiant barrier installed	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 Florida Building Code, Energy Conservation, through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL display card will be complied based on installed code compliant features.

Builder Signature: January July Visit

Date: 10-15-19

Address of New Home: X

566 SE CR 245

City/FL Zip: Lake City, FL 32025

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

AD	DRESS:	Permit Number:
		Lake City , FL ,
MAN	IDATOR	REQUIREMENTS See individual code sections for full details.
\checkmark		SECTION R401 GENERAL
	card be com 553.9085, FI residential be dwelling unit	gy Performance Level (EPL) display card (Mandatory). The building official shall require that an energy performance level (EPL) display betted and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section orida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold ildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and a submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.
		rakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of R402.4.1 through R402.4.5.
		Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.
		.1 Building thermal envelope building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. aling methods between dissimilar materials shall allow for differential expansion and contraction.
	the ma	.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with nufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the fficial, an approved third party shall inspect all components and verify compliance.
	chang accord individ an app	.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air is per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in ance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either it is a defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or roved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.
	Excep buildin	ion: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing as in which the new construction is less than 85 percent of the building thermal envelope.
	1. Externation other in 2. Dan infiltrat 3. Inte 4. Externation 5. Hea	testing: rior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or ifiltration control measures. pers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended on control measures. ior doors, if installed at the time of the test, shall be open. rior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. ing and cooling systems, if installed at the time of the test, shall be turned off.
	R402.4.2 Fir	oly and return registers, if installed at the time of the test, shall be fully open. **Places.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using or sor factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the ere using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
	square foot (nestration air leakaget/Vindows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per 1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or A/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.
	Excep	tion: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)						
R402.4.4 Rooms containing fuel-burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.						
Exceptions:						
 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. 						
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.						
R403.1 Controls. SECTION R403 SYSTEMS						
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 manufa air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.						
 Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. 						
Exceptions:						
 A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope. 						
Duct testing is not mandatory for buildings complying by Section 405 of this code.						
A written report of the results of the test shall be signed by the party conducting the test and provided to the code official.						
R403.3.5 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.						

4 4

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

M	ANDATORY REQUIREMENTS - (Continued)
	R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
	R403.5.6 Water heater efficiencies (Mandatory).
	R403.5.6.1.1 Automatic controls. Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
	R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
	R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
	R403.5.6.2.1 Solar water-heating systems. Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
	 Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and Be installed at an orientation within 45 degrees of true south.
	R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
	R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
	Exception: Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
	R403.6.2 Ventilation air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
	 The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
	 No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
	If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
	R403.7 Heating and cooling equipment (Mandatory). R403.7.1 Equipment sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

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

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
Range hoods Any In-line fan Any		2.8 cfm/watt	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.

MΑ	NDATORY REQUIREMENTS - (Continued)
	R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section 403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.
	The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.
	Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.
	Exceptions:
	 Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load. 2.
	When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.
	R403.7.1.2 Heating equipment capacity.
	R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
	R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.
	R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.
	R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
	1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
	2. A variable capacity system sized for optimum performance during base load periods is utilized.
	R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the IECC—Commercial Provisions in lieu of Section R403.
	R403.9 Snow melt and ice system controls (Mandatory) Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
	R403.10 Pools and permanent spa energy consumption (Mandatory). be in accordance with Sections R403.10.1 through R403.10.5. The energy consumption of pools and permanent spas shall
	R403.10.1 Heaters. The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.
	R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.
	Exceptions:
	 Where public health standards require 24-hour pump operation. Pumps that operate solar- and waste-heat-recovery pool heating systems.
	Where pumps are powered exclusively from on-site renewable generation.
	R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.
	 Exception: Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required. R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.

	R403.10.5 Heat pump pool heaters. Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
	R403.11 Portable spas (Mandatory) e energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.
	SECTION R404
Ε	LECTRICAL POWER AND LIGHTING SYSTEMS
	R404.1 Lighting equipment (Mandatory). Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
	Exception: Low-voltage lighting.
	R404.1.1 Lighting equipment (Mandatory)Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

Project Name: 191142 Touchton Builder Name: Street: Permit Office: City, State, Zip: Lake City , FL , Permit Number: CHECK Jurisdiction: Owner: Touchton Res Design Location: FL, Gainesville COMPONENT AIR BARRIER CRITERIA **INSULATION INSTALLATION CRITERIA** A continuous air barrier shall be installed in the building envelope. General Air-permeable insulation shall The exterior thermal envelope contains a continuous air barrier. not be used as a sealing material. requirements Breaks or joints in the air barrier shall be sealed. The air barrier in any dropped ceiling/soffit shall be aligned with the The insulation in any dropped ceiling/soffit Ceiling/attic insulation and any gaps in the air barrier shall be sealed. shall be aligned with the air barrier. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed. The junction of the foundation and sill plate shall be sealed. Cavities within corners and headers of frame walls Walls The junction of the top plate and the top of exterior walls shall be shall be insulated by completely filling the cavity with sealed a material having a thermal resistance of R-3 per Knee walls shall be sealed. inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier. Windows, skylights The space between window/door jambs and framing, and skylights and framing shall be sealed. and doors Rim joists Rim joists shall include the air barrier. Rim joists shall be insulated. Floors Floor framing cavity insulation shall be installed to The air barrier shall be installed at any exposed edge of (including insulation. maintain permanent contact with the underside of above-garage subfloor decking, or floor framing cavity insulation and cantilevered shall be permitted to be in contact with the top side floors) 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. Exposed earth in unvented crawl spaces shall be covered with Where provided instead of floor insulation, insulation Crawl space walls a Class I vapor retarder with overlapping joints taped. shall be permanently attached to the crawlspace Duct shafts, utility penetrations, and flue shafts opening to Shafts, penetrations exterior or unconditioned space shall be sealed. Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on Narrow cavities installation readily conforms to the available cavity spaces. Garage separation Air sealing shall be provided between the garage and conditioned spaces. Recessed lighting Recessed light fixtures installed in the building thermal envelope Recessed light fixtures installed in the building shall be sealed to the drywall. thermal envelope shall be air tight and IC rated. Batt insulation shall be cut neatly to fit around wiring Plumbing and wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring. Exterior walls adjacent to showers and tubs shall Shower/tub The air barrier installed at exterior walls adjacent to showers and on exterior wall tubs shall separate them from the showers and tubs. be insulated. Electrical/phone box or The air barrier shall be installed behind electrical or communication exterior walls 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. When required to be sealed, concealed fire sprinklers shall only be Concealed sealed in a manner that is recommended by the manufacturer. sprinklers Caulking or other adhesive sealants shall not be used to fill voids

between fire sprinkler cover plates and walls or ceilings.

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

Envelope Leakage Test Report (Blower Door Test)

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

	Jurisdiction:	Pe	rmit #:		
Jol	Information				
Bui	lder:	Community:	Lot:		
Add	dress:				
City	y: Lake City	State: FL	Zip:		
Aiı	Leakage Test Results	Passing results must meet either the	Performance, Prescriptive, or ERI Method		
C		ng or dwelling unit shall be tested and v inch w.g. (50 Pascals) in Climate Zone	erified as having an air leakage rate of not exceeding 7 air s 1 and 2.		
the	selected ACH(50) value, as shown on Fo		ed and verified as having an air leakage rate of not exceeding 2017 (ERI), section labeled as infiltration, sub-section ACH50. nance) or R406-2017 (ERI): 7.000		
	PASS	olume ACH(50) , Mechanical Ventilation installation epartment.	Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated		
Tes 489 pro Dui 1. E cor 2. I me 3. I 4. E 5. H	sting shall be conducted by either individual at 105(3)(f), (g), or (i) or an approved third pointed to the code official. Testing shall be a ring testing: Exterior windows and doors, fireplace and at old measures.	als as defined in Section 553.993(5) or oparty. A written report of the results of the performed at any time after creation of a stove doors shall be closed, but not see p air, back draft and flue dampers shall test, shall be open. Items and heat recovery ventilators shall the time of the test, shall be turned off.			
To	esting Company				
11	ompany Name: nereby verify that the above Air Leaka nergy Conservation requirements acc	-	Phone:ne 2017 6th Edition Florida Building Code elected above.		
Signature of Tester:			Date of Test:		
Р	rinted Name of Tester:				
License/Certification #:			ng Authority:		

Residential System Sizing Calculation

Summary Project Title:

Touchton Res

191142 Touchton

Lake City, FL

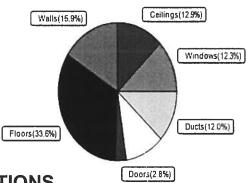
2019-10-14

Location for weather data: Gaine	svilla El -	Defaulte: I	atitude(20.7) Altitude(152.ft.) Ten	on Pange/M	\			
Location for weather data: Gainesville, FL - Defaults: Latitude(29.7) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(47gr.)								
Winter design temperature(MJ8 99%) 32 F Summer design temperature(MJ8 99%) 99 F								
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	38	F	Summer temperature difference	24	F			
Total heating load calculation	21371	Btuh	Total cooling load calculation	19054	Btuh			
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh			
Total (Electric Heat Pump)	117.0	25000	Sensible (SHR = 0.75)	117.6	18750			
Heat Pump + Auxiliary(0.0kW)	117.0	25000	Latent	201.0	6250			
			Total (Electric Heat Pump)	131.2	25000			

WINTER CALCULATIONS

Winter Heating Load (for 1520 sqft)

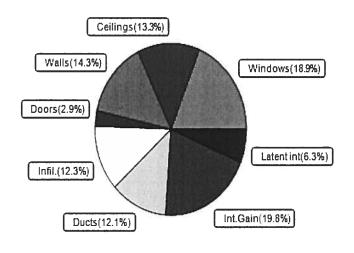
Load component			Load	
Window total	231	sqft	2632	Btuh
Wall total	1009	sqft	3404	Btuh
Door total	40	sqft	608	Btuh
Ceiling total	1658	sqft	2751	Btuh
Floor total	1520	sqft	7174	Btuh
Infiltration	54	cfm	2239	Btuh
Duct loss			2563	Btuh
Subtotal			21371	Btuh
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			21371	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1520 sqft)

Load component			Load	
Window total	231	sqft	3598	Btuh
Wall total	1009	sqft	2732	Btuh
Door total	40	sqft	560	Btuh
Ceiling total	1658	sqft	2534	Btuh
Floor total			0	Btuh
Infiltration	40	cfm	1061	Btuh
Internal gain			3780	Btuh
Duct gain			1680	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Blower Load			0	Btuh
Total sensible gain			15945	Btuh
Latent gain(ducts)			625	Btuh
Latent gain(infiltration)			1284	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occup	ants/othe	r)	1200	Btuh
Total latent gain			3109	Btuh
TOTAL HEAT GAIN			19054	Btuh





EnergyGauge® System Sizing PREPARED BY: Evan Beamsley DATE: 2019-10-14

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Touchton Res

Lake City, FL

Project Title: 191142 Touchton Building Type: User

2019-10-14

Reference City: Gainesville, FL (Defaults) Winter Temperature Difference: 38.0 F (MJ8 99%)

Component Loads for Whole House

Window	Panes/Type	Frame U	Orientation /	Area(sqft) X	HTM=	Load
1	2, NFRC 0.20	Metal 0.30	W	9.0	11.4	103 Btuh
2	2, NFRC 0.20	Metal 0.30	W	22.2	11.4	253 Btuh
3	2, NFRC 0.20	Metal 0.30	W	2.0	11.4	23 Btuh
4	2, NFRC 0.20	Metal 0.30	N	30.0	11.4	342 Btuh
5	2, NFRC 0.20	Metal 0.30	E	36.0	11.4	410 Btuh
6	2, NFRC 0.20	Metal 0.30	Ε	30.0	11.4	342 Btuh
7	2, NFRC 0.20	Metal 0.30	E	13.3	11.4	152 Btuh
8	2, NFRC 0.20	Metal 0.30	Ε	13.3	11.4	152 Btuh
9	2, NFRC 0.20	Metal 0.30	E	30.0	11.4	342 Btuh
10	2, NFRC 0.20	Metal 0.30	S	45.0	11.4	513 Btuh
	Window Total			230.9(sqft)		2632 Btuh
Walls	Туре	Ornt. Ueff.	R-Value (Cav/Sh)	Area X	HTM=	Load
1	Frame - Wood	- Ext (0.089)	13.0/0.0	112	3.37	378 Btuh
2	Frame - Wood	- Ext (0.089)	13.0/0.0	123	3.37	416 Btuh
3	Frame - Wood	- Ext (0.089)	13.0/0.0	98	3.37	331 Btuh
4	Frame - Wood	- Ext (0.089)	13.0/0.0	210	3.37	708 Btuh
5	Frame - Wood	- Ext (0.089)	13.0/0.0	88	3.37	297 Btuh
6	Frame - Wood	- Ext (0.089)	13.0/0.0	89	3.37	299 Btuh
7	Frame - Wood	- Ext (0.089)	13.0/0.0	94	3.37	317 Btuh
8	Frame - Wood	- Ext (0.089)	13.0/0.0	195	3.37	658 Btuh
-	Wall Total			1009(sqft)		3404 Btuh
Doors	Туре	Storm Ueff.		Area X	HTM=	Load
1	Insulated - Exter	rior, n (0.400)		20	15.2	304 Btuh
2	Insulated - Exter			13	15.2	203 Btuh
3	Insulated - Exter			7	15.2	101 Btuh
	Door Total	, ,		40(sqft)	j	608Btuh
Ceilings	Type/Color/Surf	ace Ueff.	R-Value	Area X	HTM=	Load
1	Unvent Attic/D/S	Shing (0.044)	0.0/22.0	1658	1.7	2751 Btuh
	Ceiling Total			1658(sqft)		2751Btuh
Floors	Туре	Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade	(1.180)	0.0	160.0 ft(per	im.) 44.8	7174 Btuh
	Floor Total			1520 sqft		7174 Btuh
			E	Envelope Subto	otal:	16569 Btuh
Infiltration	Туре	Wholehouse A	,	•		
	Natural	0.	.24 13300	1.00	53.8	2239 Btuh
Duct load	Average sealed	, R6.0, Supply(Att)), Return(Con	n) (DLM	l of 0.136)	2563 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued) Project Title:

Touchton Res

Lake City, FL

191142 Touchton Building Type: User

2019-10-14

All Zones		Sensible Subtotal All Zones	21371 Btuh
WHOLE HOUS	SE TOTALS		
Tota	ils for Heating	Subtotal Sensible Heat Loss Ventilation Sensible Heat Loss Total Heat Loss	21371 Btuh 0 Btuh 21371 Btuh
EQUIPMENT			
1. Electric Hea	at Pump	#	25000 Btuh

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

HTM - (ManualJ Heat Transfer Multiplier)



Version 8

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Touchton Res

Project Title: 191142 Touchton

Lake City, FL

2019-10-14

Reference City: Gainesville, FL

Temperature Difference: 24.0F(MJ8 99%)

Humidity difference: 47gr.

Component Loads for Whole House

		Ту	e*			Over	hang	Wind	low Area	(sqft)	H	ITM	Load	
Window	Panes	SHGC L	InSh	IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1	0.20, 0.3		No	W	18.5f	0.0ft.	9.0	9.0	0.0	11	26	103	Btuh
2	2 NFRC	0.20, 0.3	0 No	No	W	18.5f	0.0ft.	22.2	22.2	0.0	11	26	253	Btuh
3	2 NFRC	0.20, 0.3	0 No	No	W	1.5ft.	0.5ft.	2.0	1.5	0.5	11	26	31	Btuh
4	2 NFRC	0.20, 0.3	0 No	No	N	1.5ft.	5.0ft.	30.0	0.0	30.0	11	11	342	Btuh
5		0.20, 0.3		No	E	1.5ft.	0.5ft.	36.0	4.5	31.5	11	26	886	Btuh
6		0.20, 0.3		No	Ε	8.0ft.	1.0ft.	30.0	30.0	0.0	11	26		Btuh
7		0.20, 0.3		No	E	8.0ft.	1.0ft.	13.3	11.3	2.1	11	26	183	Btuh
8		0.20, 0.3		No	E	8.0ft.	1.0ft.	13.3	11.3	2.1	11	26	183	Btuh
9		0.20, 0.3		No	E	1.5ft.	0.5ft.	30.0	4.5	25.5	11	26	727	Btuh
10	1	0.20, 0.3	0 No	No	S	1.5ft.	6.Utt.	45.0	22.7	22.3	11	13	548	Btuh
	Windov	v i otai						231 (s					3598	Btuh
Walls	Туре				U	-Value	e R-\	/alue	Area	(sqft)		HTM	Load	
							Cav/S	heath						
1		Wood - Ex				0.09		0.0/	112			2.7	303	Btuh
2		Wood - Ex				0.09		0.0/	123			2.7	334	Btuh
3	1	Wood - Ex				0.09		0.0/	98			2.7	265	Btuh
4		Wood - Ex				0.09		0/0.0	210			2.7	568	Btuh
5		Wood - Ex				0.09		0/0.0	88			2.7	238	Btuh
6		Wood - Ex	••			0.09		0.0	88			2.7	240	Btuh
7		Wood - Ex				0.09		0/0.0	94			2.7	254	Btuh
8		Wood - Ex	α		,	0.09	13.0	0.0/	195			2.7	528	
	Wall To	otal								9 (sqft)			2732	Btuh
Doors	Туре								Area	(sqft)		HTM	Load	
1	1	l - Exterio							20	.0		14.0	280	Btuh
2	1	I - Exterio							13			14.0	187	Btuh
3	Insulated	I - Exterio	•						6.			14.0	93	Btuh
	Door To								4	0 (sqft)			560	Btuh
Ceilings	Type/C	olor/Su	face		U	-Value	9	R-Value	Area	(sqft)		HTM	Load	
1	Unvented	d Attic/Da	kShingl	le		0.044		0.0/22.0	165	8.0		1.53	2534	Btuh
	Ceiling	Total							165	8 (sqft)			2534	Btuh
Floors	Туре						R-\	/alue	Siz			HTM	Load	
1	Slab On	Grade						0.0	15	20 (ft-perir	neter)	0.0	0	Btuh
	Floor T									0 (sqft)	,		0	Btuh
									Er	nvelope	Subtota	1:	9424	Btuh
nfiltration	Туре				Aver	age A	СH	Volu) Wall R	atio	CFM=	Load	
	Natural						0.18		13300	1		40.4	1061	Btuh
Internal						Occup	ants		Btuh/oc	cupant	- /	Appliance	Load	
gain							6		X 23	•		2400	3780	Btuh
									Se	ensible E	Envelope	e Load:	14265	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title: Climate:FL_GAINESVILLE_REGIONAL_A
191142 Touchton

Touchton Res

Lake City, FL

2019-10-14

		Sensible Load All Zones	15945 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Condi)	(DGM of 0.118)	1680 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)
Project Title: Climate:FL_GAINESVILLE_I

Touchton Res

191142 Touchton

Climate:FL_GAINESVILLE_REGIONAL_A

Lake City, FL

2019-10-14

WHOLE HOUSE TOTALS			
	Sensible Envelope Load All Zones	14265	Btuh
	Sensible Duct Load	1680	Btuh
	Total Sensible Zone Loads	15945	Btuh
	Sensible ventilation	0	Btuh
er.	Blower	0	Btuh
Whole House	Total sensible gain	15945	Btuh
Totals for Cooling	Latent infiltration gain (for 47 gr. humidity difference)	1284	Btuh
	Latent ventilation gain	0	Btuh
	Latent duct gain	625	Btuh
	Latent occupant gain (6.0 people @ 200 Btuh per person)	1200	Btuh
	Latent other gain	0	Btuh
	Latent total gain	3109	Btuh
	TOTAL GAIN	19054	Btuh

EQUIPMENT		
1. Central Unit	#	25000 Btuh

*Key: Window types (Panes - Number and type of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value)
(U - Window U-Factor)

(InSh - Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))

- For Blinds: Assume medium color, half closed

For Draperies: Assume medium weave, half closed

For Roller shades: Assume translucent, half closed (IS - Insect screen: none(N), Full(F) or Half(½))

(Ornt - compass orientation)



Version 8