

## Columbia County Building Permit Application

Revised 9-23-04

**For Office Use Only** Application # 0711-31 Date Received 11-14-07 By CH Permit # 1478/26447  
 Application Approved by - Zoning Official BWK Date 21.11.07 Plans Examiner OK 3711 Date 11-16-07  
 Flood Zone XPS Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
 Comments ETV NOL

Applicants Name Don Reed Construction Phone 386-752-4072  
 Address 2230 SE Baya Dr. Ste 101 Lake City, FL 32025  
 Owners Name Douglas & Anne Christensen Phone 386-752-4072  
 911 Address 9574 SW County Road 240 Lake City, FL 32024  
 Contractors Name Don Reed Construction Phone 386-752-4072  
 Address Same as above  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address \_\_\_\_\_  
 Mortgage Lenders Name & Address First Federal  
 Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
 Property ID Number 18-55-16-03642-004 Estimated Cost of Construction \$275,000.00  
 Subdivision Name N/A Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions 475 to 240; TR on 240; go approx. 80 miles; TL into property - look for DRC sign, just before Bayelle Terr on left.  
 Type of Construction SFD Number of Existing Dwellings on Property 0  
 Total Acreage 10.03 Lot Size \_\_\_\_\_ Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 4100' Side 208' Side 1106' Rear 462'  
 Total Building Height 22' Number of Stories 1 Heated Floor Area 2204 Roof Pitch 6/12  
 TOTAL 4079

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.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

**WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT**

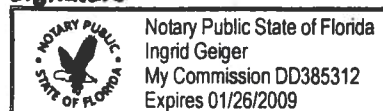
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
 this 14th day of November 2007.  
 Personally known ✓ or Produced Identification \_\_\_\_\_

Contractor Signature Don Reed  
 Contractors License Number GC0362204  
 Competency Card Number \_\_\_\_\_  
 NOTARY STAMP/SEAL

Notary Signature Ingrid Geiger



COMMENCEMENT  
OF NE 1/4,  
TOWNSHIP  
RANGE 16 EAST

Christensen

S.00°12'40"E.  
39.62' (FIELD)

POINT OF BEGINNING  
L.E. BRITT  
P.L.S. 1079

S.89°09'41"W. 450.00' (FIELD)

452'

NO  
IMPROVEMENTS  
LOCATED  
10.03 Acres

S.00°31'11"E. 970.94' (FIELD)

208'

WELL

77'

100'

58'

Septic

165'

N.00°30'30"W. 970.94' (FIELD)

460'

N.89°09'41"E. 449.78' (FIELD)

## COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787

PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_craft@columbiacountyfla.com

### Addressing Maintenance

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

DATE REQUESTED: 11/5/2007 DATE ISSUED: 11/6/2007

#### ENHANCED 9-1-1 ADDRESS:

9574 SW COUNTY ROAD 240  
LAKE CITY FL 32024  
PROPERTY APPRAISER PARCEL NUMBER:  
18-5S-16-03642-004

Remarks:

Address Issued By:



Columbia County 9-1-1 Addressing / GIS Department

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

Approved Address

1016

NOV 11 6 2007

911 Addressing/GIS Dept

Prepared by:  
Michael H. Hargill  
Abstract & Title Services, Inc.  
243 NW Cole Terrace  
Lake City, Florida 32055

AT89 18824

## Warranty Deed

Individual to Individual

THIS WARRANTY DEED made the 6th day of June, 2007, Peter W. Giebeig, A Single Person, hereinafter called the grantor, to Anne M. Christensen and her husband, Douglas L. Christensen whose post office address is: 22616 25th Drive, Lake City, FL 32024 hereinafter called the grantees:

(Whether used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth: That the grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys, and confirms unto the grantees, all that certain land situate in COLUMBIA County, Florida, viz: Parcel ID#

See Exhibit "A" attached hereto and by this reference made a part hereof.

Subject property is restricted to site built homes only. Home must be at least 1500 square feet, heated and cooled. No Mobile Homes on property.

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

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

AND the grantor hereby covenants with said grantees that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006.

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

Signed, sealed and delivered in our presence:

*Cheryl Best*  
Witness

*Cheryl Best*  
Printed Name:

*Traci Landry*  
Witness

*Traci Landry*  
Printed Name:

*Peter W. Giebeig*  
Peter W. Giebeig

Int:200712012560 Date:6/7/2007 Time:12:58 PM  
Doc Stamp-Deed:20.50  
y.p. DC, P. DeWitt Casson, Columbia County Page 1 of 2

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 6th day of June, 2007 by PETER W. GIEBEIG, A SINGLE PERSON personally known to me or, if not personally known to me, who produced A POWER OF ATTORNEY for identification and who did not take an oath.

(Notary Seal)



*[Signature]*  
Notary Public

Ref.  
ATS 16524Scanned to Wanda  
4:40pmNE CORNER OF SECTION 10,  
TOWNSHIP 6 SOUTH, RANGE  
16 EASTA BOUNDARY SURVEY IN SECTION 10, TOWNSHIP 5 SOUTH,  
RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.

SCALE: 1" = 100'

## SYMBOL LEGEND

- 4"x4" CONCRETE MONUMENT FOUND
- 4"x4" CONCRETE MONUMENT SET
- IRON PIPE FOUND
- IRON PIN AND CAP SET
- POWER POLE
- △ WATER METER
- ⊕ CENTERLINE
- WELL
- SATELLITE DISH
- TELEPHONE DISH
- E--- ELECTRIC LINES
- S--- WIRE FENCE
- L--- CHAIN LINK FENCE
- X--- WOODEN FENCE

**DESCRIPTION**  
 COMMENCE AT THE NE CORNER OF THE NE 1/4 OF SECTION 10, TOWNSHIP 5 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN S89°42'0"E, 376.00 FEET TO A POINT OF THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 849 AND TO THE POINT OF BEGINNING. THENCE S00°37'11"E, 970.54 FEET, THENCE N89°59'41"W, 454.78 FEET, THENCE N89°38'24"W, 970.94 FEET TO THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD NO. 849, THENCE S89°52'11"W, ALONG SAID RIGHT-OF-WAY LINE, 459.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10.83 ACRES, MORE OR LESS.

## SURVEYOR'S NOTES

- BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF A PREVIOUS SURVEY BY THIS OFFICE ON 06-09-07.
- BEARINGS ARE BASED ON SAID PREVIOUS SURVEY BY THIS OFFICE.
- THIS PARCEL IS IN ZONE "A" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1990 COMBATTI PANEL NUMBER 12809 0225 IS HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
- THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
- IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
- THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

MEETS THE HUSBAND  
 REES AND WIFE'S  
 FLORIDA STATUTE

COASTED SURVEYOR AND  
 IS NOT VALID



**BRITT SURVEYING  
 & ASSOCIATES, INC.**

LAND SURVEYORS AND MAPPERS  
 830 WEST DUVAL STREET  
 LAKE CITY, FLORIDA 32055

TELEPHONE: (386) 758-7163 FAX: (386) 758-5873

WORK ORDER # L-18412

POINT OF COMMENCEMENT  
NW CORNER OF SW 1/4,  
SECTION 10, TOWNSHIP  
5 SOUTH, RANGE 18 EAST  
L.E. BRITT  
P.L.S. 1079

COUNTY ROAD NO. 240 (PAVED PUBLIC-80' RIGHT-OF-WAY)

POINT OF BEGINNING  
L.E. BRITT  
P.L.S. 1079

5.00°12'12"W. 20.00' (FIELD)

5.00°08'41"W. 450.00' (FIELD)

5.00°12'40"E. 350.00' (FIELD)

NO IMPROVEMENTS LOCATED  
1883 ACRES, ±

5.00°11'17"E. 970.84' (FIELD)

5.00°11'17"E. 970.84' (FIELD)

5.00°11'17"E. 970.84' (FIELD)

5.00°11'17"E. 970.84' (FIELD)

SW CORNER OF SW 1/4,  
SECTION 10, TOWNSHIP  
5 SOUTH, RANGE 18 EAST  
L.E. BRITT  
P.L.S. 1079

CERTIFIED TO:

ANNE H. CHRISTENSEN  
ABSTRACT AND TITLE SERVICES, INC.  
CHICAGO TITLE INSURANCE COMPANY

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE  
TECHNICAL STANDARDS AS SET FORTH BY THE F.L.S.  
IN CHAPTER 600-6, FLORIDA ADMINISTRATIVE CODE

05/21/07  
FIELD SURVEY DATE

05/21/07  
SIGNING DATE

FIELD BOOK, SEE PAGE(S) FILE

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINATOR'S NAME, THIS DRAWING, SKETCH, PLAN OR MAP IS FOR

ATS 16524

EXHIBIT "A"

Commence at the Northwest Corner of the NE  $\frac{1}{4}$  of Section 18, Township 5 South, Range 16 East, Columbia County, Florida, and run South  $00^{\circ}12'40''$  East, 39.62 feet to a point of the South Right-of-Way line of County Road No. 240 and to the Point of Beginning; thence South  $00^{\circ}31'11''$  East, 970.94 feet; thence North  $89^{\circ}09'41''$  East, 449.78 feet; thence North  $00^{\circ}30'24''$  West, 970.94 feet to the South Right-of-Way line of County Road No. 240; thence South  $89^{\circ}09'41''$  West along said Right-of-Way line 450.00 feet to the Point of Beginning.

②





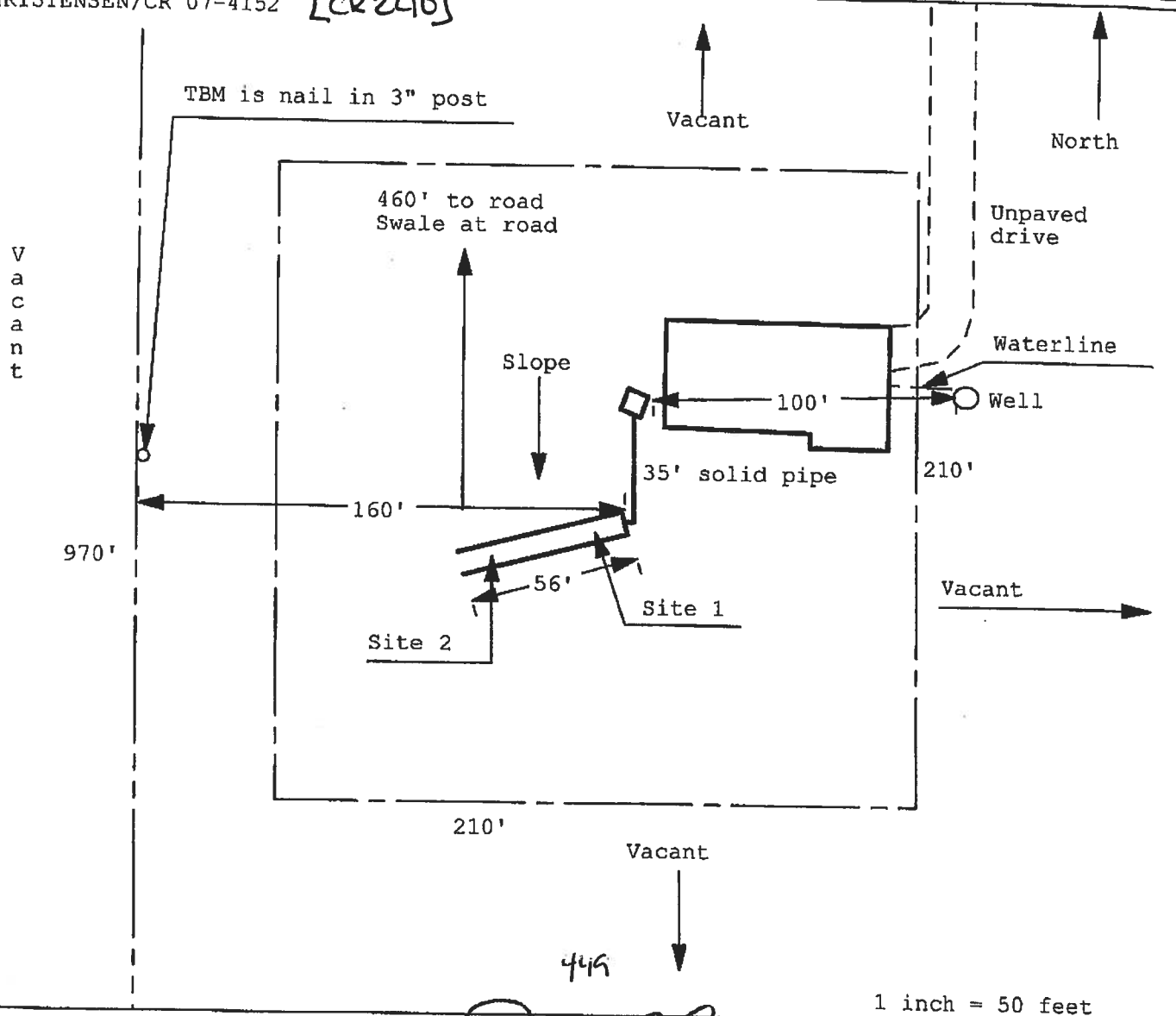
0711-31



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 07-08602

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

CHRISTENSEN/CR 07-4152 [CR240]



1 inch = 50 feet

Site Plan Submitted By Paul L. Lyle Date 11/2/07  
Plan Approved ☒ Not Approved ☐ Date 11/13/07  
By Ma & M Columbia CPHU

Notes: \_\_\_\_\_

This Instrument Prepared By:  
 Michael H. Harrell  
 Abstract & Title Services, Inc.  
 283 NW Cole Terrace  
 Lake City, Florida 32055

### NOTICE OF COMMENCEMENT

#### TO WHOM IT MAY CONCERN:

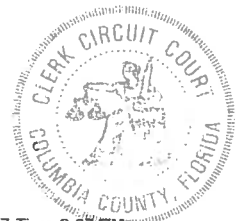
The undersigned hereby give notice that improvements will be made to certain real property and in accordance with Chapter 713, Florida Statutes, the following is provided in this Notice of Commencement:

1. Description of Property: See Exhibit "A" attached hereto and by this reference made a part thereof.
2. General Description of Improvement: Construction of Dwelling
3. Owner Information:
  - a. Name and Address: Anne M. Christensen and Douglas L. Christensen, 22616 35<sup>th</sup> Drive, Lake City, FL 32024
  - b. Interest in property: Fee Simple
  - c. Name and address of fee simple title holder (if other than Owner): NONE
4. Contractor (name and address): Don Reed Construction, Inc., 2230 SE Baya Drive, Lake City, FL 32025
5. Surety:
  - a. Name and Address: N/A
  - b. Amount of Bond: N/A
6. LENDER: First Federal Savings Bank of Florida  
 4705 West US Highway 90  
 PO Box 2029  
 Lake City, FL 32056
7. Persons within the State of Florida designated by Owner upon whom notices of other documents may be served as provided in Section 713.13(1)(a)7., Florida Statutes: NONE
8. In addition to himself, Owner designates PAULA HACKER, of FIRST FEDERAL SAVINGS BANK OF FLORIDA at 4705 WEST US HIGHWAY 90 / PO BOX 2029, LAKE CITY, FL 32056, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b) Florida Statutes.
8. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

STATE OF FLORIDA, COUNTY OF COLUMBIA  
 I HEREBY CERTIFY that the above and foregoing  
 is a true copy of the original filed in this office  
 P DeWITT CASON, CLERK OF COURTS

By Sharon Fragle  
 Deputy Clerk

Inst: 200712024912 Date: 11/6/2007 Time: 2:37 PM  
 DC, P. DeWitt Cason, Columbia County Page 1 of 2



\*Owner is used for singular or plural as context requires.

Signed, sealed, and delivered in the presence:

Cheryl Brady  
 WITNESS  
Robert D. Brown  
 WITNESS

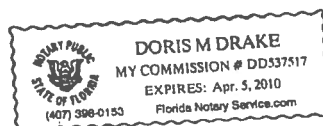
Anne M. Christensen  
 Anne M. Christensen  
Douglas L. Christensen  
 Douglas L. Christensen

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

Before me, personally appeared Anne M. Christensen, and her husband, Douglas L. Christensen, to me known to be the person(s) described in and who executed the foregoing instrument, and they acknowledged to and before me that they executed said instrument for the purpose therein expressed.

Witness my hand and official seal this 6<sup>th</sup> day of November, 2007.

(SEAL)



Sharon Fragle  
 NOTARY PUBLIC

My Commission Expires:

ATS #16765

EXHIBIT "A"

Commence at the Northwest Corner of the NE ¼ of Section 18, Township 5 South, Range 16 East, Columbia County, Florida, and run South 00°12'40" East, 39.62 feet to a point of the South Right-of-Way line of County Road No. 240 and to the Point of Beginning; thence South 00°31'11" East, 970.94 feet; thence North 89°09'41" East, 449.78 feet; thence North 00°30'24" West, 970.94 feet to the South Right-of-Way line of County Road No. 240; thence South 89°09'41" West along said Right-of-Way line 450.00 feet to the Point of Beginning.

# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

## Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name:	<b>Christensen Residence</b>	Builder:	<b>Don Reed Construction</b>
Address:	<b>Hwy 240</b>	Permitting Office:	<b>Columbia Co.</b>
City, State:	<b>Lake City, FL</b>	Permit Number:	<b>26447</b>
Owner:	<b>Doug &amp; Anne Christensen</b>	Jurisdiction Number:	<b>221550</b>
Climate Zone:	<b>North</b>		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft <sup>2</sup> )	2204 ft <sup>2</sup>		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 36.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 91.0 ft <sup>2</sup>		HSPF: 7.20
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 91.0 ft <sup>2</sup>	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 266.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Adjacent	R=13.0, 436.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 1692.0 ft <sup>2</sup>	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2204.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 112.0 ft		
b. N/A			

Glass/Floor Area: 0.11

Total as-built points: 27868

Total base points: 32176

**PASS**

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

PREPARED BY: 

DATE: 8-30-07

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

OWNER/AGENT: 

DATE: \_\_\_\_\_

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

BUILDING OFFICIAL: \_\_\_\_\_

DATE: \_\_\_\_\_



<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2204.0	20.04	7950.3	Double, Clear	N	8.0	6.0	75.0	19.20	0.67	962.7
				Double, Clear	W	1.5	6.0	60.0	38.52	0.91	2111.2
				Double, Clear	S	14.0	6.0	16.0	35.87	0.44	253.9
				Double, Clear	S	14.0	6.0	60.0	35.87	0.44	952.2
				Double, Clear	S	1.5	4.0	15.0	35.87	0.74	398.6
				Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.6
				As-Built Total:				241.0			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	436.0	0.70	305.2	Frame, Wood, Adjacent	13.0		436.0	0.60		261.6	
Exterior	1692.0	1.70	2876.4	Frame, Wood, Exterior	13.0		1692.0	1.50		2538.0	
Base Total:		2128.0	3181.6	As-Built Total:		2128.0		2799.6			
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	60.0	2.40	144.0	Adjacent Insulated			20.0	1.60		32.0	
Exterior	40.0	6.10	244.0	Exterior Insulated			40.0	4.10		164.0	
				Adjacent Insulated			40.0	1.60		64.0	
Base Total:		100.0	388.0	As-Built Total:		100.0		260.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	2204.0	1.73	3812.9	Under Attic	30.0		2204.0	1.73 X 1.00		3812.9	
Base Total:		2204.0	3812.9	As-Built Total:		2204.0		3812.9			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	266.0(p)	-37.0	-9842.0	Slab-On-Grade Edge Insulation	0.0		266.0(p)	-41.20		-10959.2	
Raised	0.0	0.00	0.0								
Base Total:		-9842.0		As-Built Total:		266.0		-10959.2			
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
2204.0 10.21 22502.8				2204.0 10.21 22502.8							

**SUMMER CALCULATIONS****Residential Whole Building Performance Method A - Details**

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
<b>Summer Base Points: 27993.6</b>				<b>Summer As-Built Points: 23555.4</b>						
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
27993.6	0.4266		11942.1	<small>(sys 1: Central Unit 36000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> 23555      1.00    (1.09 x 1.147 x 0.91)    0.263      1.000      7035.8 <b>23555.4      1.00      1.138      0.263      1.000      7035.8</b>						

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X    Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt   Len   Hgt			Area X WPM X WOF = Points			
.18	2204.0	12.74	5054.2	Double, Clear	N	8.0	6.0	75.0	24.58	1.02	1883.1
				Double, Clear	W	1.5	6.0	60.0	20.73	1.02	1272.9
				Double, Clear	S	14.0	6.0	16.0	13.30	3.58	760.6
				Double, Clear	S	14.0	6.0	60.0	13.30	3.58	2852.3
				Double, Clear	S	1.5	4.0	15.0	13.30	1.34	267.7
				Double, Clear	S	1.5	6.0	15.0	13.30	1.12	222.9
				As-Built Total:							241.0
WALL TYPES    Area X BWPM = Points				Type	R-Value			Area X WPM    =    Points			
Adjacent	436.0	3.60	1569.6	Frame, Wood, Adjacent	13.0			436.0	3.30	1438.8	
Exterior	1692.0	3.70	6260.4	Frame, Wood, Exterior	13.0			1692.0	3.40	5752.8	
Base Total:		2128.0	7830.0	As-Built Total:					2128.0	7191.6	
DOOR TYPES    Area X BWPM = Points				Type				Area X WPM    =    Points			
Adjacent	60.0	11.50	690.0	Adjacent Insulated				20.0	8.00	160.0	
Exterior	40.0	12.30	492.0	Exterior Insulated				40.0	8.40	336.0	
				Adjacent Insulated				40.0	8.00	320.0	
Base Total:		100.0	1182.0	As-Built Total:					100.0	816.0	
CEILING TYPES    Area X BWPM = Points				Type	R-Value			Area X WPM X WCM =    Points			
Under Attic	2204.0	2.05	4518.2	Under Attic	30.0			2204.0	2.05 X 1.00	4518.2	
Base Total:		2204.0	4518.2	As-Built Total:					2204.0	4518.2	
FLOOR TYPES    Area X BWPM = Points				Type	R-Value			Area X WPM    =    Points			
Slab	266.0(p)	8.9	2367.4	Slab-On-Grade Edge Insulation	0.0			266.0(p)	18.80	5000.8	
Raised	0.0	0.00	0.0								
Base Total:			2367.4	As-Built Total:					266.0	5000.8	
INFILTRATION    Area X BWPM = Points							Area X WPM    =    Points				
		2204.0	-0.59	-1300.4				2204.0	-0.59	-1300.4	

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
<b>Winter Base Points:</b>		<b>19651.5</b>		<b>Winter As-Built Points:</b>			<b>23485.8</b>			
Total Winter Points	X	System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
<b>19651.5</b>		<b>0.6274</b>	<b>12329.3</b>	(sys 1: Electric Heat Pump 36000 btuh ,EFF(7.2) Ducts:Unc(S),Unc(R),Int(AH),R6.0 23485.8	1.000	(1.069 x 1.169 x 0.93)	0.474	1.000	12927.1	
				<b>23485.8</b>	<b>1.00</b>	<b>1.162</b>	<b>0.474</b>	<b>1.000</b>	<b>12927.1</b>	



# WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

BASE					AS-BUILT							
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit = Multiplier	Total
3		2635.00		7905.0	50.0	0.92	3		1.00	2635.00	1.00	7905.0
					As-Built Total:							7905.0

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling	+	Heating	+	Hot Water	= Total	Cooling	+	Heating	+	Hot Water	= Total
Points		Points		Points	Points	Points		Points		Points	Points
11942		12329		7905	32176	7036		12927		7905	27868

PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Hwy 240, Lake City, FL,

PERMIT #:

**6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

**6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)**

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 85.7**

**The higher the score, the more efficient the home.**

Doug & Anne Christensen, Hwy 240, Lake City, FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 36.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft <sup>2</sup> )	2204 ft <sup>2</sup>		
7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump	Cap: 36.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 91.0 ft <sup>2</sup>		HSPF: 7.20
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 91.0 ft <sup>2</sup>	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 266.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.92
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Adjacent	R=13.0, 436.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
b. Frame, Wood, Exterior	R=13.0, 1692.0 ft <sup>2</sup>	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 2204.0 ft <sup>2</sup>	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 112.0 ft		
b. N/A			

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

Builder Signature: [Signature]

Date: \_\_\_\_\_

Address of New Home: \_\_\_\_\_

City/FL Zip: \_\_\_\_\_



*\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](http://www.fsec.ucf.edu) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.  
EnergyGauge® (Version: FLRCSB v4.0)

# Residential System Sizing Calculation

## Summary

Doug & Anne Christensen  
Hwy 240  
Lake City, FL

Project Title:  
Christensen Residence

Code Only  
Professional Version  
Climate: North

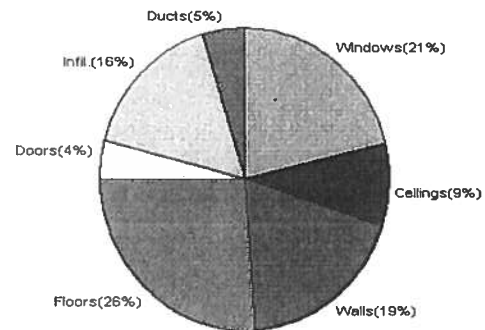
8/30/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
<b>Total heating load calculation</b>	<b>31903 Btuh</b>	<b>Total cooling load calculation</b>	<b>30340 Btuh</b>
Submitted heating capacity	36000 Btuh	Submitted cooling capacity	36000 Btuh
Submitted as % of calculated	112.8 %	Submitted as % of calculated	118.7 %

## WINTER CALCULATIONS

Winter Heating Load (for 2204 sqft)

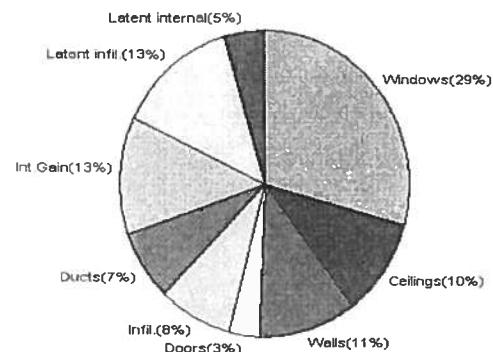
Load component		Load
Window total	241 sqft	6820 Btuh
Wall total	2128 sqft	5943 Btuh
Door total	100 sqft	1297 Btuh
Ceiling total	2204 sqft	2865 Btuh
Floor total	266 ft	8406 Btuh
Infiltration	118 cfm	5053 Btuh
<b>Subtotal</b>		<b>30384 Btuh</b>
Duct loss		1519 Btuh
<b>TOTAL HEAT LOSS</b>		<b>31903 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 2204 sqft)

Load component		Load
Window total	241 sqft	8940 Btuh
Wall total	2128 sqft	3398 Btuh
Door total	100 sqft	1014 Btuh
Ceiling total	2204 sqft	3130 Btuh
Floor total		0 Btuh
Infiltration	118 cfm	2332 Btuh
Internal gain		3800 Btuh
<b>Subtotal(sensible)</b>		<b>22614 Btuh</b>
Duct gain		2261 Btuh
<b>Total sensible gain</b>		<b>24875 Btuh</b>
Latent gain(infiltration)		4085 Btuh
Latent gain(internal)		1380 Btuh
<b>Total latent gain</b>		<b>5465 Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>30340 Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: 

DATE: 8-30-07



# System Sizing Calculations - Winter

## Residential Load - Component Details

Doug & Anne Christensen  
Hwy 240  
Lake City, FL

Project Title:  
Christensen Residence

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

8/30/2007

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	75.0	28.3	2122 Btuh
2	2, Clear, Metal, DEF	W	60.0	28.3	1698 Btuh
3	2, Clear, Metal, DEF	S	16.0	28.3	453 Btuh
4	2, Clear, Metal, DEF	S	60.0	28.3	1698 Btuh
5	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
6	2, Clear, Metal, DEF	S	15.0	28.3	424 Btuh
Window Total			241		6820 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Adjacent	13.0	436	1.6	698 Btuh
2	Frame - Exterior	13.0	1692	3.1	5245 Btuh
Wall Total			2128		5943 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjac		20	9.4	188 Btuh
2	Insulated - Exter		40	18.3	733 Btuh
3	Insulated - Adjac		40	9.4	376 Btuh
Door Total			100		1297Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2204	1.3	2865 Btuh
Ceiling Total			2204		2865Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	266.0 ft(p)	31.6	8406 Btuh
Floor Total			266		8406 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	17632(sqft)	118	5053 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				118	5053 Btuh

<b>Totals for Heating</b>	<b>Subtotal</b>	<b>30384 Btuh</b>
	<b>Duct Loss(using duct multiplier of 0.05)</b>	<b>1519 Btuh</b>
	<b>Total Btuh Loss</b>	<b>31903 Btuh</b>

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
(Frame types - metal, wood or insulated metal)  
(U - Window U-Factor or 'DEF' for default)  
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types )

# System Sizing Calculations - Summer

## Residential Load - Component Details

Doug & Anne Christensen  
Hwy 240  
Lake City, FL

Project Title:  
Christensen Residence

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

8/30/2007

Window	Type	Overhang		Window Area(sqft)			HTM		Load		
	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, DEF, N, N	N	8	6	75.0	0.0	75.0	22	22	1650	Btuh
2	2, Clear, DEF, N, N	W	1.5	6	60.0	0.7	59.3	22	72	4283	Btuh
3	2, Clear, DEF, N, N	S	14	6	16.0	16.0	0.0	22	37	352	Btuh
4	2, Clear, DEF, N, N	S	14	6	60.0	15.0	45.0	22	37	1995	Btuh
5	2, Clear, DEF, N, N	S	1.5	4	15.0	15.0	0.0	22	37	330	Btuh
6	2, Clear, DEF, N, N	S	1.5	6	15.0	15.0	0.0	22	37	330	Btuh
	Window Total				241					8940	Btuh
Walls	Type	R-Value			Area			HTM		Load	
1	Frame - Adjacent	13.0			436.0			1.0		453	Btuh
2	Frame - Exterior	13.0			1692.0			1.7		2944	Btuh
	Wall Total				2128.0					3398	Btuh
Doors	Type				Area			HTM		Load	
1	Insulated - Adjac				20.0			10.1		203	Btuh
2	Insulated - Exter				40.0			10.1		406	Btuh
3	Insulated - Adjac				40.0			10.1		406	Btuh
	Door Total				100.0					1014	Btuh
Ceilings	Type/Color	R-Value			Area			HTM		Load	
1	Under Attic/Dark	30.0			2204.0			1.4		3130	Btuh
	Ceiling Total				2204.0					3130	Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab-On-Grade Edge Insulation	0.0			266.0 ft(p)			0.0		0	Btuh
	Floor Total				266.0					0	Btuh
Infiltration	Type	ACH			Volume			CFM=		Load	
	Natural	0.40			17632			117.8		2332	Btuh
	Mechanical							0		0	Btuh
	Infiltration Total							118		2332	Btuh

<b>Internal gain</b>	Occupants		Btuh/occupant		Appliance	Load
	6	X	300	+	2000	3800 Btuh

<b>Totals for Cooling</b>	<b>Subtotal</b>	<b>22614 Btuh</b>
	<b>Duct gain(using duct multiplier of 0.10)</b>	<b>2261 Btuh</b>
	<b>Total sensible gain</b>	<b>24875 Btuh</b>
	<b>Latent infiltration gain (for 51 gr. humidity difference)</b>	<b>4085 Btuh</b>
	<b>Latent occupant gain (6 people @ 230 Btuh per person)</b>	<b>1380 Btuh</b>
	<b>Latent other gain</b>	<b>0 Btuh</b>
<b>TOTAL GAIN</b>		<b>30340 Btuh</b>

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Doug & Anne Christensen  
Hwy 240  
Lake City, FL

Project Title:  
Christensen Residence

Code Only  
Professional Version  
Climate: North

8/30/2007

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)  
(U - Window U-Factor or 'DEF' for default)  
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

FROM :

FAX NO. : 386-755-7022

Jun. 12 2002 01:32PM P1

# HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL  
OWNERS

PHONE (904) 752-1854  
FAX (904) 755-7022  
~~XXXXXXXXXXXXXXXXXXXX~~  
LAKE CITY, FLORIDA 32055  
904 NW Main Blvd.

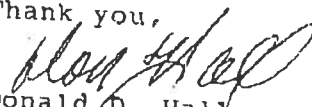
June 12, 2002

## NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,

  
Donald D. Hall  
DDH/jk

# Columbia County Building Department Culvert Permit

Culvert Permit No.  
000001478

DATE 11/26/2007 PARCEL ID # 18-5S-16-03642-004  
APPLICANT KATIE REED PHONE 752-4072  
ADDRESS 2230 SE BAYA DR LAKE CITY FL 32025  
OWNER DOUGLAS & ANNE CHRISTENSEN PHONE \_\_\_\_\_  
ADDRESS 9574 SW CR 240 LAKE CITY FL 32024  
CONTRACTOR DON REED CONSTRUCTION PHONE 752-4072  
LOCATION OF PROPERTY 47S. TR ON 240, 8/10 OF MILE, JUST BEFORE BOYETTE TERR ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT \_\_\_\_\_

SIGNATURE

*Katie Reed*

## INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
  - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other \_\_\_\_\_

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED  
DURING THE INSTALLATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21  
Lake City, FL 32055  
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



# COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

## OCCUPANCY

### COLUMBIA COUNTY, FLORIDA

#### Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 18-5S-16-03642-004

Building permit No. 000026447

Use Classification SFD, UTILITY

Fire: 61.05

Permit Holder DON REED

Waste: 83.75

Owner of Building DOUGLAS & ANNE CHRISTENSEN

Total: 144.80

Location: 9574 SW R 240

Date: 05/16/2008

*Wayne D. Reed*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)