

## Columbia County Building Permit Application

For Office Use Only Application # 071008 Date Received 11/1/07 By GT Permit # 147/26430  
 Application Approved by - Zoning Official CJS Date 11/8/07 Plans Examiner OKOTH Date 11-7-07  
 Flood Zone X Development Permit N/A Zoning RSMH2 Land Use Plan Map Category RLD  
 Comments City Water

☒ NOC ☒ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development P

Name Authorized Person Signing Permit Linda or Melanie Roder Fax 752-2282  
 Address 387 SW Kemper Lake City FL 32024 Phone 752-2281

Owners Name Travis Williams Phone 365-4614  
 911 Address 223 NE Gum Swamp Rd Lake City FL 32055

Contractors Name Travis Williams Phone 365-4614  
 Address POB 1716 Lake City FL 32056

Fee Simple Owner Name & Address NA

Bonding Co. Name & Address NA

Architect/Engineer Name & Address Mark Disosway

Mortgage Lenders Name & Address NA

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive En  
 Property ID Number 20-35-17-05371-008 Estimated Cost of Construction 100 K

Subdivision Name Triangle Park Lot 12 Block 1 Unit 1 Phase 1  
 Driving Directions 441 N past Way Station, Ron Gam Swamp Rd, 1/2 mi.  
Lot on L

Type of Construction sfd Number of Existing Dwellings on Property 0  
 Total Acreage 27<sup>ac</sup> Lot Size 1.00 Do you need a Culvert Permit or Culvert Waiver or Have an Existing

Actual Distance of Structure from Property Lines - Front 25' Side 23.5' Side 23.5' Rear 78'  
 Total Building Height 17'-6" Number of Stories 2 Heated Floor Area 1187 Roof Pitch 4-12

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 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 Authorized Person by Notarized Letter  
 Linda R. Roder  
 Commission #DD303275  
 Expires: Mar 24, 2008  
 Bonded Thru  
 Atlantic Bonding Co., Inc.

Sworn to (or affirmed) and subscribed before me  
 this 20 day of November  
 Personally known or Produced Identification or

Contractor Signature  
 Contractors License Number RL-282811623  
 Competency Card Number  
 NOTARY STAMP/SEAL

Notary Signature  
 (Revised Sept. 20)

# Columbia County Building Department Culvert Permit

Culvert Permit No.

000001477

DATE 11/16/2007 PARCEL ID # 20-3S-17-05371-008  
APPLICANT TRAVIS WILLIAMS PHONE 365-4614  
ADDRESS PO BOX 1716 LAKE CITY FL 32056  
OWNER TRAVIS WILLIAMS PHONE 365-4614  
ADDRESS 223 NE GUM SWAMP RD LAKE CITY FL 32055  
CONTRACTOR TRAVIS WILLIAMS PHONE 365-4614  
LOCATION OF PROPERTY 441 N. R GUM SWAMP RD, 1/4 MILE ON THE LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT triangle park 12

SIGNATURE



## 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

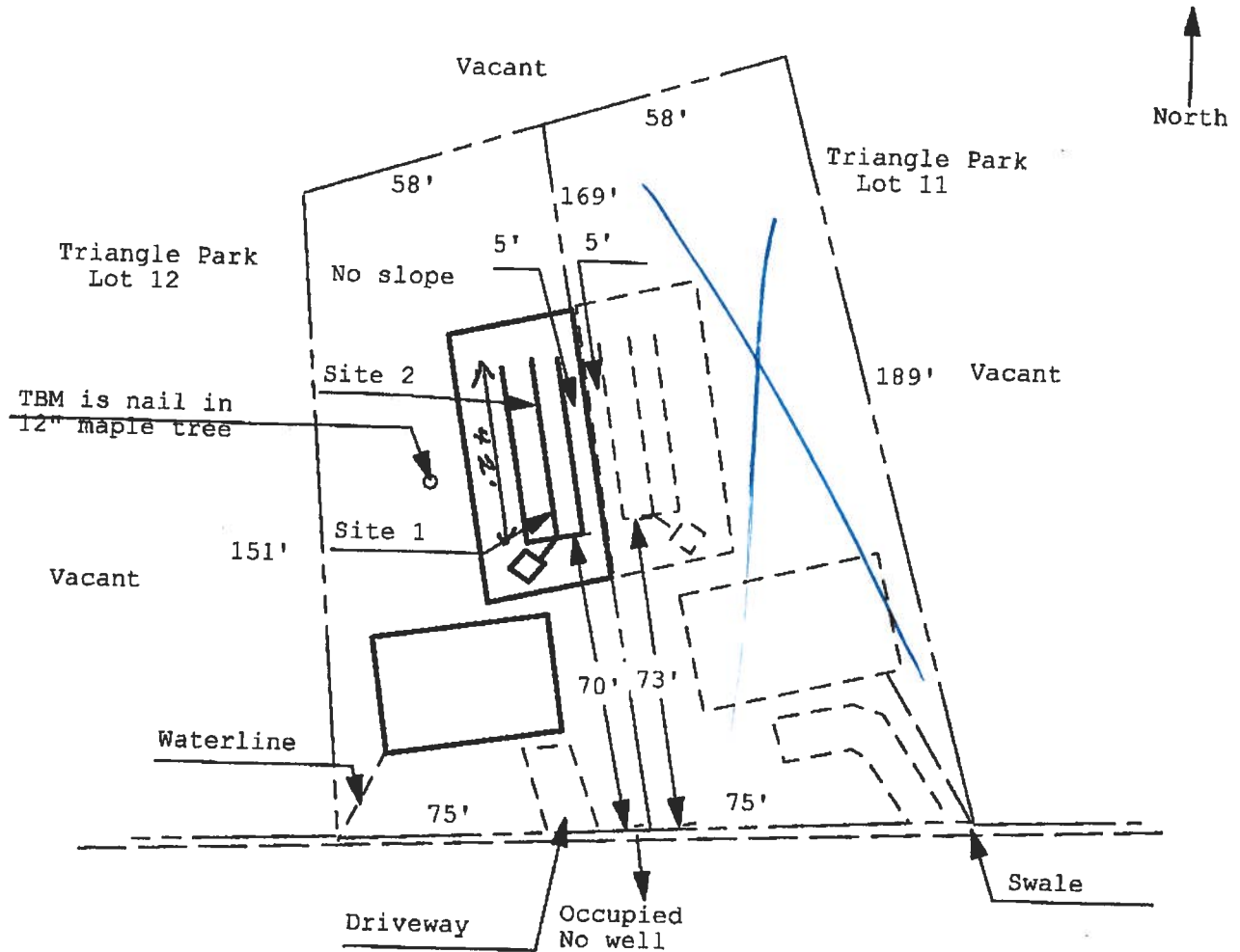
Amount Paid 25.00



**Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan**  
Permit Application Number: 07-0857

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT**

WILLIAMS/CR 07-4150



1 inch = 40 feet

Site Plan Submitted By Paul L. [Signature]

Plan Approved ☒ Not Approved ☐

Date 11/11/07

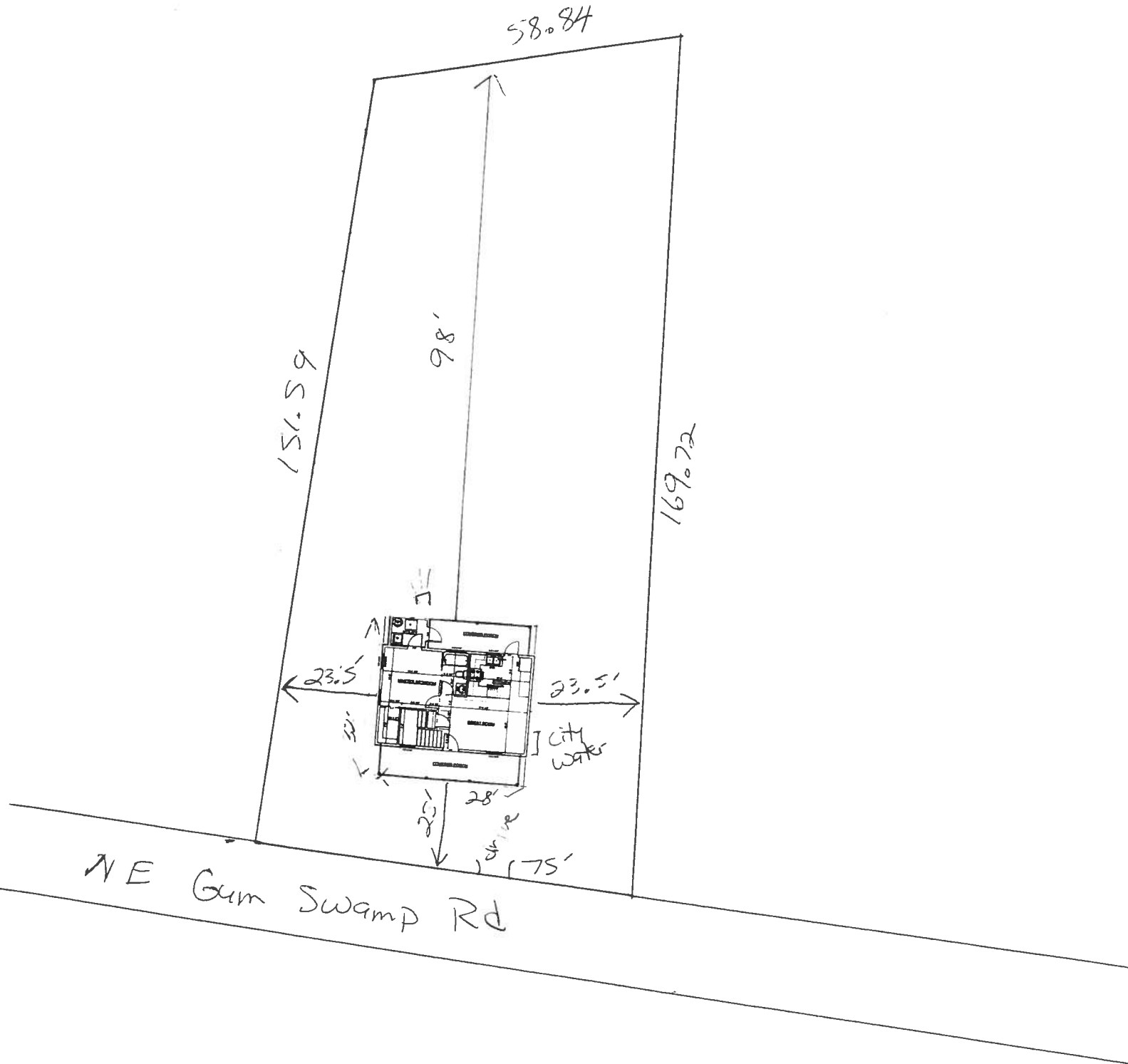
Date 11/15/07

By [Signature]

Columbia CPHU

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

Lot 12 Triangle Park  
Travis Williams  
20-35-17-05371-008



Lot 12 Triangle Park

Notice of Authorization

I Travis Williams, do hereby authorize Linda Roder or Melanie Roder,

to be my representative and act on my behalf in all aspects of applying for any

building permit to be located in Columbia county.

Any homeowner and legal description

Travis Williams

Contractor's signature

10-29-07  
Date

Sworn and subscribed before me this 29 day of October, 2007.

Linda Roder

Notary Public



Linda R. Roder  
Commission #DD303275  
Expires: Mar 24, 2008  
Bonded Thru  
Atlantic Bonding Co., Inc.

My commission expires: \_\_\_\_\_  
Commission No. \_\_\_\_\_  
Personally known ✓ \_\_\_\_\_  
Produced ID (Type): \_\_\_\_\_

Prepared by:

American Title Services of Lake City, Inc.  
321 SW Main Blvd., Suite 105  
Lake City, Florida 32025

File Number: 07-350

Inst: 200712019843 Date: 8/31/2007 Time: 9:35 AM

Doc Stamp-Deed: 392.00

DC, P. DeWitt Cason Columbia County Page 1 of 2

### Warranty Deed

Made this August 30, 2007 A.D.

By **Timothy R. Williams and Tamela H. Williams, husband and wife**, Post Office Box 1716, Lake City, Florida 32056, hereinafter called the grantor, to

**Travis Clayton Williams**, whose post office address is: Post Office Box 1716, Lake City, Florida 32056, hereinafter called the grantee:

(Whenever used herein the term "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 Ten Dollars, (\$10.00) and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

**See Attached Schedule "A"**

Parcel ID Number: **05371-000**

**Together** with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

**To Have and to Hold**, the same in fee simple forever.

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

Megan Marable  
Witness Printed Name Megan Marable

Johnny M. Hamon  
Witness Printed Name Johnny M. Hamon

State of Florida  
County of Columbia

Timothy R. Williams (Seal)  
Timothy R. Williams  
Address: Post Office Box 1716, Lake City, Florida 32056

Tamela H. Williams (Seal)  
Tamela H. Williams  
Address:

The foregoing instrument was acknowledged before me this 30th day of August, 2007, by Timothy R. Williams and Tamela H. Williams, husband and wife, who is/are personally known to me or who has produced driver's license as identification.

Megan M. Marable  
Notary Public  
Print Name:

My Commission  
Expires:



## **Schedule "A"**

### **TOWNSHIP 3 SOUTH, RANGE 17 EAST**

**SECTION 20:** Commence at the NW corner of the SE 1/4 of the SW 1/4 and run South 49° 51' East, 430.16 feet to South Right of Way of Double Run Road and Permanent records monument (PRM), Thence run North 37° 20' East along said Right of Way 150.00 feet for a Point of Beginning, Thence continue North 37° 20' East along said Right of way 375 feet to a PRM, Thence run South 36° 41' East 465 feet to a PRM, Thence run South 71 ° 46' West 375.00 feet to PRM. Thence run North 18° 14' West 128.65 feet to a PRM, Thence run North 56° 38° West 130.80 feet to the Point of Beginning.

Also Described as Lots 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13 of Triangle Park, A subdivision of a part of the E 1/2 of the SW 1/4 of Section 20, Township 3 South, Range 17 East. **IN COLUMBIA COUNTY, FLORIDA.**

**File Number: 07-350**

Legal Description with Non Homestead  
Closer's Choice

NFL Permit  
387 SW Kemp Ct  
Lake City FL 32024

## NOTICE OF COMMENCEMENT

Tax Parcel Identification Number 20-35-17-05371-008

County Clerk's Office Stamp or Seal

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

1. Description of property (legal description): Lot 12 Triangle Park  
a) Street (job) Address: 237 NE Gum Swamp Rd Lake City FL 32055  
2. General description of improvements: Single family dwelling

3. Owner Information

- a) Name and address: Travis Williams POB 1716 Lake City FL 32056  
b) Name and address of fee simple titleholder (if other than owner) NA  
c) Interest in property house for speculation

4. Contractor Information

- a) Name and address: Travis Williams POB 1716 Lake City FL 32056  
b) Telephone No.: 365-4614 Fax No. (Opt.) \_\_\_\_\_

5. Surety Information

- a) Name and address: NA  
b) Amount of Bond: NA  
c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_

6. Lender

- a) Name and address: NA  
b) Phone No. \_\_\_\_\_

Inst: 200712024449 Date: 10/31/2007 Time: 3:49 PM

DC, P. DeWitt Cason, Columbia County Page 1 of 1

7. Identity of person within the State of Florida designated by owner upon whom notice may be served

- a) Name and address: NA  
b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_

8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b), Florida Statutes:

- a) Name and address: NA  
b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.) \_\_\_\_\_

9. Expiration date of Notice of Commencement (the expiration date is one 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 I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY; A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA  
COUNTY OF COLUMBIA

10. Travis Williams  
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager  
Travis Williams  
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 31 day of October, 2007, by:  
Linda Roder as Notary (type of authority, e.g. officer, trustee, attorney  
fact) for \_\_\_\_\_ (name of party on behalf of whom instrument was executed).

Personally Known ☒ OR Produced Identification \_\_\_\_\_ Type \_\_\_\_\_

Notary Signature: Linda Roder



Linda R. Roder  
Commission #DD303275



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name:	710171North FloridaFramersBrooksSpec	Builder:	North Florida Framers
Address:	223 NE Gum Swamp Rd	Permitting Office:	Glambe Co.
City, State:	Lake City, FL 32055-	Permit Number:	26430
Owner:	Spec House	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 27.0 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 (ft²)	1187 ft²		
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: 27.0 kBtu/hr
(or Single or Double DEFAULT) 7a. (Dble Default) 192.0 ft²			HSPF: 7.50
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT) 7b. (Clear) 192.0 ft²		c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 112.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.93
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1604.0 ft²	(HR-Heat recovery, Solar	
b. N/A		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, 647.0 ft²	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, 180.0 ft		
b. N/A			

Glass/Floor Area: 0.16 Total as-built points: 19659  
Total base points: 21575

**PASS**

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

PREPARED BY: [Signature]  
DATE: 10/30/07

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

OWNER/AGENT: [Signature]  
DATE: 10-31-07

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: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1187.0	20.04	4281.7	Double, Clear	N	7.5	2.0	4.0	19.20	0.59	45.6
				Double, Clear	N	7.5	4.0	9.0	19.20	0.63	108.6
				Double, Clear	N	7.5	7.0	10.0	19.20	0.70	134.3
				Double, Clear	S	7.5	6.0	30.0	35.87	0.49	526.7
				Double, Clear	W	0.0	0.0	30.0	38.52	1.00	1155.7
				Double, Clear	N	1.5	6.0	30.0	19.20	0.94	540.7
				Double, Clear	N	1.5	2.0	4.0	19.20	0.76	58.1
				Double, Clear	E	0.0	0.0	15.0	42.06	1.00	631.0
				Double, Clear	S	1.5	6.0	45.0	35.87	0.86	1381.9
				Double, Clear	W	0.0	0.0	15.0	38.52	1.00	577.9
				<b>As-Built Total:</b>		<b>192.0</b>			<b>5160.3</b>		
<b>WALL TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1604.0	1.50		2406.0	
Exterior	1604.0	1.70	2726.8								
<b>Base Total:</b> 1604.0 2726.8				<b>As-Built Total:</b>		<b>1604.0</b>			<b>2406.0</b>		
<b>DOOR TYPES</b> Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	4.10		164.0	
Exterior	50.0	4.10	205.0	Exterior Insulated			10.0	4.10		41.0	
<b>Base Total:</b> 50.0 205.0				<b>As-Built Total:</b>		<b>50.0</b>			<b>205.0</b>		
<b>CEILING TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	647.0	1.73	1119.3	Under Attic	30.0		647.0	1.73 X 1.00		1119.3	
<b>Base Total:</b> 647.0 1119.3				<b>As-Built Total:</b>		<b>647.0</b>			<b>1119.3</b>		
<b>FLOOR TYPES</b> Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	112.0(p)	-37.0	-4144.0	Slab-On-Grade Edge Insulation	0.0		112.0(p)	-41.20		-4614.4	
Raised	0.0	0.00	0.0								
<b>Base Total:</b> -4144.0				<b>As-Built Total:</b>		<b>112.0</b>			<b>-4614.4</b>		
<b>INFILTRATION</b> Area X BSPM = Points				Area X SPM = Points							
1187.0 10.21 12119.3				1187.0 10.21 12119.3							

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT						
<b>Summer Base Points: 16308.1</b>				<b>Summer As-Built Points: 16395.5</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
16308.1	0.4266		6957.0	<small>(sys 1: Central Unit 27000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> 16396      1.00    (1.09 x 1.147 x 0.91)    0.263      1.000      4897.2 <b>16395.5      1.00      1.138      0.263      1.000      4897.2</b>						

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1187.0	12.74	2722.0	Double, Clear	N	7.5	2.0	4.0	24.58	1.03	101.0
				Double, Clear	N	7.5	4.0	9.0	24.58	1.02	226.7
				Double, Clear	N	7.5	7.0	10.0	24.58	1.02	250.5
				Double, Clear	S	7.5	6.0	30.0	13.30	3.09	1231.3
				Double, Clear	W	0.0	0.0	30.0	20.73	1.00	621.8
				Double, Clear	N	1.5	6.0	30.0	24.58	1.00	739.1
				Double, Clear	N	1.5	2.0	4.0	24.58	1.01	99.8
				Double, Clear	E	0.0	0.0	15.0	18.79	1.00	281.9
				Double, Clear	S	1.5	6.0	45.0	13.30	1.12	668.7
				Double, Clear	W	0.0	0.0	15.0	20.73	1.00	310.9
				<b>As-Built Total:</b>		192.0			4531.7		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1604.0	3.40		5453.6	
Exterior	1604.0	3.70	5934.8								
<b>Base Total:</b>				<b>As-Built Total:</b>		1604.0			5453.6		
<b>DOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Exterior Insulated			40.0	8.40		336.0	
Exterior	50.0	8.40	420.0	Exterior Insulated			10.0	8.40		84.0	
<b>Base Total:</b>				<b>As-Built Total:</b>		50.0			420.0		
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	647.0	2.05	1326.3	Under Attic	30.0		647.0	2.05 X 1.00		1326.3	
<b>Base Total:</b>				<b>As-Built Total:</b>		647.0			1326.3		
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	112.0(p)	8.9	996.8	Slab-On-Grade Edge Insulation	0.0		112.0(p)	18.80		2105.6	
Raised	0.0	0.00	0.0								
<b>Base Total:</b>				<b>As-Built Total:</b>		112.0			2105.6		
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points							
1187.0 -0.59 -700.3				1187.0 -0.59 -700.3							

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT						
<b>Winter Base Points: 10699.6</b>				<b>Winter As-Built Points: 13136.9</b>						
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier	= Heating Points	
10699.6	0.6274	6713.0		(sys 1: Electric Heat Pump 27000 btuh ,EFF(7.5) Ducts:Unc(S),Unc(R),Int(AH),R6.0 13136.9 1.000 (1.069 x 1.169 x 0.93) 0.455 1.000 6941.6	1.00	1.162	0.455	1.000	6941.6	

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT					
<b>WATER HEATING</b>									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit = Total Multiplier
3		2635.00	7905.0	40.0	0.93	3		1.00	2606.67
				<b>As-Built Total:</b>					<b>7820.0</b>

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	= Total Points	Cooling Points	+	Heating Points	= Total Points
6957		6713	7905	4897		6942	7820
			21575				19659

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 223 NE Gum Swamp Rd, Lake City, FL, 32055-

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\* = 84.4**

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

Spec House, 223 NE Gum Swamp Rd, Lake City, FL, 32055-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 27.0 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> )	1187 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: 27.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 192.0 ft <sup>2</sup>		HSPF: 7.50
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 192.0 ft <sup>2</sup>	c. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 112.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 40.0 gallons
c. N/A		b. N/A	EF: 0.93
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 1604.0 ft <sup>2</sup>	(HR-Heat recovery, Solar	
b. N/A		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, 647.0 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, 180.0 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: \_\_\_\_\_ 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<sup>®</sup> (Version: FLR2PB v4.1)





**ENGINEERING & TESTING LABORATORY**

P.O. Box 1625, Lake City, FL 32056-1625  
4784 Rosselle St. • Jacksonville, FL 32254  
2230 Greensboro Hwy., Quincy, FL 32351

Lake City • (386) 755-3633  
Fax • (386) 752-5456

Jacksonville • (904) 381-8901  
Fax • (904) 381-8902

Quincy • (850) 442-3495  
Fax • (850) 442-4008

**JOB NO.:** 07 593  
**DATE TESTED:**

11/29/07

**REPORT OF IN-PLACE DENSITY TEST**

**ASTM METHOD:** ☒ (D-2922) Nuclear ☐ (D-2937) Drive Cylinder ☐ Other

**PROJECT:** Brooke Residence

Permit # 26430

O.K. WJ

**CLIENT:** Innovative Home Builders

**GENERAL CONTRACTOR:** SAC

**EARTHWORK CONTRACTOR:** SAC

**SOIL USE (SEE NOTE):** 7 (footing)

**SPECIFICATION REQUIREMENTS:** 95%

**TECHNICIAN:** C. Day

**MODIFIED (ASTM D-1557):** X X X

**STANDARD (ASTM D-698):**

TEST NO.	TEST LOCATION	TEST DEPTH ELEV LIFT	PROCTOR NO.	WET DENS. LBS./CU.FT.	DRY DENS. LBS./CU.FT.	MOIST PERCENT	% MAX. DENS.
1	East Side Approx. Center 6' West	12"	X	113.1	104.1	8.6	99
2	West Side Approx. Center 6' East	12"	X	111.6	105.1	6.1	100
3	North end Approx. Center	12"	X	119.2	105.7	12.8	100
4	South end Approx. Center	12"	X	115.7	102.3	13.1	97

**REMARKS:**

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST
*	Brian Timmerman Pit	105.2	12.4
	Tam Sand		

**NOTE:** 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other  
The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

- a) All sides
- b) Roof pitch
- c) Overhang dimensions and detail with attic ventilation
- d) Location, size and height above roof of chimneys
- e) Location and size of skylights
- f) Building height
- e) Number of stories

- ☒ ☐
- ☒ ☐
- ☒ ☐

- ☐ ☐

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**Floor Plan including:**

- a) Rooms labeled and dimensioned
- b) Shear walls
- c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)
- d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth
- e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails
- f) Must show and identify accessibility requirements (accessable bathroom)

**Foundation Plan including:**

- a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling
- d) Location of any vertical steel

**Roof System:**

- a) Truss package including:
  - 1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
  - 2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
- b) Conventional Framing Layout including:
  - 1. Rafter size, species and spacing
  - 2. Attachment to wall and uplift
  - 3. Ridge beam sized and valley framing and support details
  - 4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

**Wall Sections including:**

- a) Masonry wall
  - 1. All materials making up wall
  - 2. Block size and mortar type with size and spacing of reinforcement
  - 3. Lintel, tie-beam sizes and reinforcement
  - 4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
  - 5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
  - 6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
  - 7. Fire resistant construction (if required)
  - 8. Fireproofing requirements
  - 9. Shoe type of termite treatment (termicide or alternative method)
  - 10. Slab on grade
    - a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    - b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
  - 11. Indicate where pressure treated wood will be placed
  - 12. Provide insulation R value for the following:
    - a. Attic space
    - b. Exterior wall cavity
    - c. Crawl space (if applicable)



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b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termicide or alternative method)
11. Slab on grade
  - a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed)
  - b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
  - a. Attic space
  - b. Exterior wall cavity
  - c. Crawl space (if applicable)

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c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

**Floor Framing System:**

- a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer
- b) Floor joist size and spacing
- c) Girder size and spacing
- d) Attachment of joist to girder
- e) Wind load requirements where applicable

**Plumbing Fixture layout**

**Electrical layout including:**

- a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- b) Ceiling fans
- c) Smoke detectors
- d) Service panel and sub-panel size and location(s)
- e) Meter location with type of service entrance (overhead or underground)
- f) Appliances and HVAC equipment

**HVAC information**

- a) Manual J sizing equipment or equivalent computation
- b) Exhaust fans in bathroom

**Energy Calculations** (dimensions shall match plans)

**Gas System** Type (LP or Natural) Location and BTU demand of equipment

**Disclosure Statement for Owner Builders**

**Notice Of Commencement**

**Private Potable Water**

- a) Size of pump motor
- b) Size of pressure tank
- c) Cycle stop valve if used

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# Residential System Sizing Calculation

## Summary

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

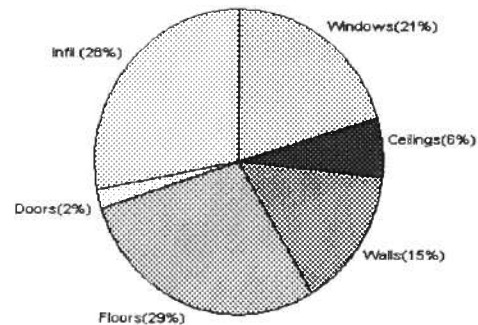
10/30/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
<b>Total heating load calculation</b>	<b>24772 Btuh</b>	<b>Total cooling load calculation</b>	<b>22147 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	113.0 28000	Sensible (SHR = 0.75)	121.2 21000
Heat Pump + Auxiliary(0.0kW)	113.0 28000	Latent	145.4 7000
		Total (Electric Heat Pump)	126.4 28000

## WINTER CALCULATIONS

Winter Heating Load (for 1346 sqft)

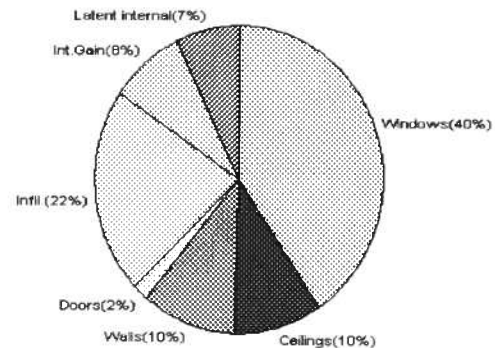
Load component			Load	
Window total	158 sqft		5086	Btuh
Wall total	1106 sqft		3632	Btuh
Door total	40 sqft		518	Btuh
Ceiling total	1346 sqft		1586	Btuh
Floor total	163 sqft		7117	Btuh
Infiltration	169 cfm		6833	Btuh
Duct loss			0	Btuh
<b>Subtotal</b>			<b>24772</b>	<b>Btuh</b>
Ventilation	0 cfm		0	Btuh
<b>TOTAL HEAT LOSS</b>			<b>24772</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1346 sqft)

Load component			Load	
Window total	158 sqft		8928	Btuh
Wall total	1106 sqft		2307	Btuh
Door total	40 sqft		392	Btuh
Ceiling total	1346 sqft		2229	Btuh
Floor total			0	Btuh
Infiltration	88 cfm		1637	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0 cfm		0	Btuh
<b>Total sensible gain</b>			<b>17333</b>	<b>Btuh</b>
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			3214	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
<b>Total latent gain</b>			<b>4814</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>			<b>22147</b>	<b>Btuh</b>



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE:

10/30/07

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

10/30/2007

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
3	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
6	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
8	2, Clear, Metal, 0.87	SW	9.0		32.2	290 Btuh
Window Total			158(sqft)			5086 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1106		3.3	3632 Btuh
Wall Total			1106			3632 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1346		1.2	1586 Btuh
Ceiling Total			1346			1586Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	163.0 ft(p)		43.7	7117 Btuh
Floor Total			163			7117 Btuh
Zone Envelope Subtotal:						17939 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	10768	168.7		6833 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					24772 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	24772 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24772 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

12/22/2027

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(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 )



For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

10/30/2007

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NE	9.0		32.2	290 Btuh
3	2, Clear, Metal, 0.87	NE	20.0		32.2	644 Btuh
4	2, Clear, Metal, 0.87	NE	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	SE	15.0		32.2	483 Btuh
6	2, Clear, Metal, 0.87	SE	30.0		32.2	966 Btuh
7	2, Clear, Metal, 0.87	SW	30.0		32.2	966 Btuh
8	2, Clear, Metal, 0.87	SW	9.0		32.2	290 Btuh
Window Total			158(sqft)			5086 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1106		3.3	3632 Btuh
Wall Total			1106			3632 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1346		1.2	1586 Btuh
Ceiling Total			1346			1586Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	163.0 ft(p)		43.7	7117 Btuh
Floor Total			163			7117 Btuh
Zone Envelope Subtotal:						17939 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	0.94	10768	168.7		6833 Btuh
Ductload	Partially sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					24772 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	24772 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24772 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

12/22/2027

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear  
(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 )



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

10/30/2007

### Component Loads for Whole House

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	4ft.	9.0	0.0	9.0	29	60	540	Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	7ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
5	2, Clear, 0.87, None,N,N	SE	0ft.	0ft.	15.0	0.0	15.0	29	63	938	Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	6ft.	30.0	9.1	20.9	29	63	1569	Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	30.0	9.1	20.9	29	63	1569	Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	4ft.	9.0	4.6	4.4	29	63	409	Btuh
Window Total					158 (sqft)					8928 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1106.0			2.1		2307 Btuh	
Wall Total					1106 (sqft)					2307 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1346.0			1.7		2229 Btuh	
Ceiling Total					1346 (sqft)					2229 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			163 (ft(p))			0.0		0 Btuh	
Floor Total					163.0 (sqft)					0 Btuh	
Zone Envelope Subtotal:										13856 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			10768			87.9		1637 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	8			X 230 +			0		1840 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
Sensible Zone Load										17333 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

10/30/2007

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>17333 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>17333 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>17333 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3214 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>4814 Btuh</b>
	<b>TOTAL GAIN</b>	<b>22147 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F  
This calculation is for Worst Case. The house has been rotated 315 degrees.

10/30/2007

### Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	6ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NE	1.5ft.	4ft.	9.0	0.0	9.0	29	60	540	Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	7ft.	20.0	0.0	20.0	29	60	1201	Btuh
4	2, Clear, 0.87, None,N,N	NE	1.5ft.	6ft.	30.0	0.0	30.0	29	60	1801	Btuh
5	2, Clear, 0.87, None,N,N	SE	0ft.	0ft.	15.0	0.0	15.0	29	63	938	Btuh
6	2, Clear, 0.87, None,N,N	SE	1.5ft.	6ft.	30.0	9.1	20.9	29	63	1569	Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	6ft.	30.0	9.1	20.9	29	63	1569	Btuh
8	2, Clear, 0.87, None,N,N	SW	1.5ft.	4ft.	9.0	4.6	4.4	29	63	409	Btuh
Window Total					158 (sqft)					8928 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			1106.0			2.1		2307 Btuh	
Wall Total					1106 (sqft)					2307 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			1346.0			1.7		2229 Btuh	
Ceiling Total					1346 (sqft)					2229 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			163 (ft(p))			0.0		0 Btuh	
Floor Total					163.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									13856 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.49			10768			87.9		1637 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	8			X 230 +			0		1840 Btuh		
Duct load	Partially sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									17333 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

Class 3 Rating  
Registration No. 0  
Climate: North

10/30/2007

### WHOLE HOUSE TOTALS

Whole House Totals for Cooling	<b>Sensible Envelope Load All Zones</b>	<b>17333 Btuh</b>
	Sensible Duct Load	0 Btuh
	<b>Total Sensible Zone Loads</b>	<b>17333 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>17333 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	3214 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>4814 Btuh</b>
	<b>TOTAL GAIN</b>	<b>22147 Btuh</b>

\*Key: Window types (Pn - Number of panes of glass)

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(Ornt - compass orientation)



For Florida residences only

# Residential Window Diversity

## MidSummer

Spec House  
223 NE Gum Swamp Rd.  
Lake City, FL 32055-

Project Title:  
710158NorthFloridaFramersHollySpec

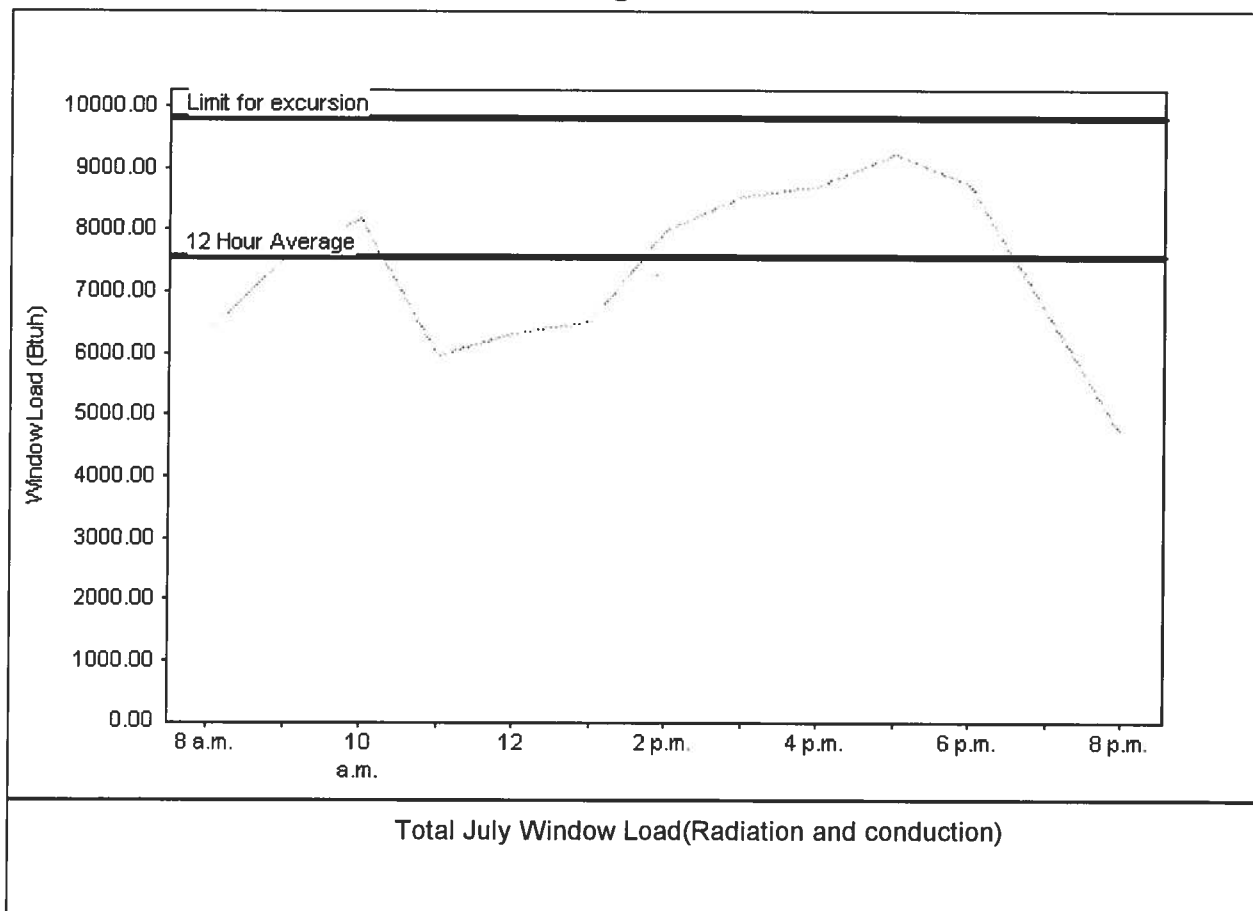
Class 3 Rating  
Registration No. 0  
Climate: North

10/30/2007

### Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	7544 Btuh
Summer setpoint	75 F	Peak window load for July	9200 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	9808 Btuh
Latitude	29 North	Window excursion (July)	None

### WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.  
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: 

DATE: 10/30/07

EnergyGauge® FLR2PB v4.1



# COLUMBIA COUNTY OFFICE OF SALVAGE

## 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 20-3S-17-05371-008

Building permit No. 000026430

Use Classification SFD, UTILITY

Fire: 77.00

Permit Holder TRAVIS WILLIAMS

Waste: 201.00

Owner of Building TRAVIS WILLIAMS

Total: 278.00

Location: 223 NE GUM SWAMP ROAD

Date: 10/02/2008

*Wayne A. Rouse*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)