

DATE 07/14/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027168

APPLICANT JOHN NORRIS PHONE 961-4549  
ADDRESS 351 NW CORWIN GLEN LAKE CITY FL 32055  
OWNER JASON HOWELL PHONE 365-8760  
ADDRESS 144 SE BUNNY COURT LAKE CITY FL 32025  
CONTRACTOR JOHN NORRIS PHONE 961-4549  
LOCATION OF PROPERTY 41S, TL ON 349, 2ND LOT ON RIGHT BEFORE PRICE CREEK

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 97250.00  
HEATED FLOOR AREA 1496.00 TOTAL AREA 1945.00 HEIGHT STORIES 1  
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB  
LAND USE & ZONING A-3 MAX. HEIGHT 18  
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00  
NO. EX.D.U. 1 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 25-5S-17-09382-003 SUBDIVISION  
LOT BLOCK PHASE UNIT 0 TOTAL ACRES 3.00

RG0066597  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
EXISTING 08-450 BK WR N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: IMPACT FEE EXEMPT, MH TO BE REMOVED 45 DAYS OF ISSUANCE  
OF CO, NOC ON FILE, ONE FOOT ABOVE THE ROAD

Check # or Cash 1366

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic  
date/app. by date/app. by date/app. by  
Under slab rough-in plumbing Slab Sheathing/Nailing  
date/app. by date/app. by date/app. by  
Framing Rough-in plumbing above slab and below wood floor  
date/app. by date/app. by  
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)  
date/app. by date/app. by date/app. by  
Permanent power C.O. Final Culvert  
date/app. by date/app. by date/app. by  
M/H tie downs, blocking, electricity and plumbing Pool  
date/app. by date/app. by  
Reconnection Pump pole Utility Pole  
date/app. by date/app. by date/app. by  
M/H Pole Travel Trailer Re-roof  
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 490.00 CERTIFICATION FEE \$ 9.72 SURCHARGE FEE \$ 9.72  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$  
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ TOTAL FEE 584.44  
INSPECTORS OFFICE CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

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

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

AME  
Permit Number:[type permit number]

Tax Folio Number: R09382-003

State of: Florida  
County of: Columbia

File Number: 08-205

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 Feagle  
Deputy Clerk

Date 6/13/2008



## NOTICE OF COMMENCEMENT

Inst:200812011267 Date:6/13/2008 Time:10:15 AM  
P. DeWitt Cason, Columbia County Page 1 of 1 B:1152 P:1079

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 Commencement.

1. Description of Property:

TOWNSHIP 5 SOUTH, RANGE 17 EAST

SECTION 25: Commence at the Northwest corner of the NE 1/4 of SE 1/4, Section 25, Township 5 South, Range 17 East, Columbia County, Florida, and run thence S 0° 23' 26" East along the West line of said NE 1/4 of SE 1/4, 16.30 feet to the South right of way line of State Road No. 349, thence North 89° 19' 00" East along said South right of way line, 3.53 feet, thence S 0° 41' 00" East along said South right of way line, 7.00 feet, thence North 89° 19' 00" East, along said South right of way line 284.47 feet to the Point of Beginning, thence continue North 89° 19' 00" East along said South right of way line, 288.03 feet, thence South 0° 23' 26" East, 453.71 feet, thence South 89° 19' 00" West, 288.03 feet, thence North 0° 23' 26" West, 453.71 feet to the point of beginning.  
IN COLUMBIA COUNTY, FLORIDA.

2. General Description of Improvements: Single Family Dwelling

3. Owner Information:

- Name and Address: Jason H. Howell, 144 SE Bunny Court, Lake City, Florida 32025
- Interest in property: Fee Simple
- Names and address of fee simple title holder (if other than owner):

4. Contractor: John Norris Construction, 351 NW Corwin Glen, Lake City, Florida 32055

5. Surety: N/A

6. Lender: Prime Home Mortgage Corp, ISAOA 4721 East Moody Blvd, Ste 304, Bunnell, Florida 32110

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 the following persons to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of Notice of Commencement (the expiration date is 1 year from date of recording unless a different date is specified): \_\_\_\_\_

Jason H. Howell  
Jason H. Howell

Sworn to and subscribed before me June 9, 2008 by Jason H. Howell, who is personally known to me or who did provide Drivers License as identification.

Megan M. Flannel  
Notary Public

My Commission Expires: \_\_\_\_\_



**Columbia County Building Permit Application**

CK# 1366

<b>For Office Use Only</b>		Application # <u>0806-47</u>	Date Received <u>6/24</u>	By <u>JW</u>	Permit # <u>27168</u>
Zoning Official <u>BLK</u>	Date <u>14.07.08</u>	Flood Zone <u>X</u>	FEMA Map # <u>N/A</u>	Zoning <u>A-3</u>	
Land Use <u>A-3</u>	Elevation <u>N/A</u>	MFE <u>18' min</u>	River <u>N/A</u>	Plans Examiner <u>(WR)</u>	Date <u>7/2/08</u>
Comments <u>Impact Fee Exempt; MHT to be removed 45 days issuance of CO. Legal Lot &amp; Recor.</u>					
<input checked="" type="checkbox"/> NOC <input checked="" type="checkbox"/> EH <input type="checkbox"/> Deed or PA <input type="checkbox"/> Site Plan <input type="checkbox"/> State Road Info <input type="checkbox"/> Parent Parcel # _____					
<input type="checkbox"/> Dev Permit # _____ <input type="checkbox"/> In Floodway <input type="checkbox"/> Letter of Authorization from Contractor					
<input type="checkbox"/> Unincorporated area <input type="checkbox"/> Incorporated area <input type="checkbox"/> Town of Fort White <input type="checkbox"/> Town of Fort White Compliance letter					

Septic Permit No. \_\_\_\_\_ Fax (386) 758-9530

Name Authorized Person Signing Permit John Norris Phone (386) 961-4549

Address 351 NW Corwin Gln. Lake City, FL 32055

Owners Name Jason Howell Phone (386) 365-8760

911 Address 144 SE Bunny Ct. Lake City, FL 32025

Contractors Name John Norris Phone (386) 961-4549

Address 351 NW Corwin Gln. Lake City, FL 32055

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address \_\_\_\_\_

Architect/Engineer Name & Address Freeman Design Group 128 SW Nassau St. Lake City, FL 32025

Mortgage Lenders Name & Address Columbia Bank

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy

Property ID Number Township 5 South Range 17 East 09382-003 Estimated Cost of Construction 125,000.00

Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_

Driving Directions 41 South to 349 turn left on 349 then turn Right on lot that is the 2nd lot before Price Creek Rd.

Number of Existing Dwellings on Property 1

Construction of Single dwelling (House) Total Acreage 3.00 acres Lot Size \_\_\_\_\_

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 18' 3"

Actual Distance of Structure from Property Lines - Front 274.9" Side 104 Side 133 Rear 140

Number of Stories 1 Heated Floor Area 1496 Total Floor Area 1945 Roof Pitch 6'12"

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 of all laws regulating construction in this jurisdiction.

Columbia County Building Permit Application

**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.

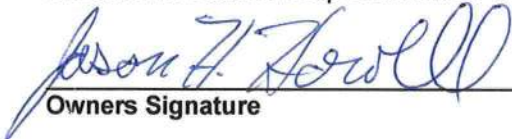
**FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment**

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 BUILDING PERMITEE:**

**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.

**OWNERS CERTIFICATION:** 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

  
Owners Signature

**CONTRACTORS AFFIDAVIT:** By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

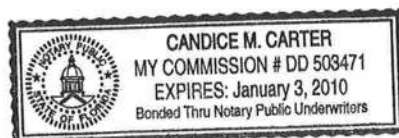
  
Contractor's Signature (Permitee)

Contractor's License Number RG0066597  
Columbia County  
Competency Card Number 000289

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 23 day of June 2008  
Personally known \_\_\_\_\_ or Produced Identification N620-46A-50-210.0

  
State of Florida Notary Signature (For the Contractor)

SEAL:



# Columbia County Property Appraiser

DB Last Updated: 4/15/2008

## 2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Parcel: 25-5S-17-09382-003 HX

Search Result: 1 of 1

### Owner & Property Info

<b>Owner's Name</b>	HOWELL JASON H		
<b>Site Address</b>	BUNNY		
<b>Mailing Address</b>	144 SE BUNNY CT LAKE CITY, FL 32025		
<b>Use Desc. (code)</b>	MOBILE HOM (000200)		
<b>Neighborhood</b>	25517.00	<b>Tax District</b>	3
<b>UD Codes</b>	MKTA02	<b>Market Area</b>	02
<b>Total Land Area</b>	3.000 ACRES		
<b>Description</b>	COMM NW COR OF NE1/4 OF SE1/4, RUN S 16.30 FT TO S R/W CR-349, E 3.53 FT, S 7 FT, E 284.47 FT FOR POB, CONT E 288.03 FT, S 453.71 FT, W 288.03 FT, N 453.71 FT TO POB. ORB 702-785, 816-2253, DIV02-752-DR 959-2658. DIV 1061-922.		

### GIS Aerial



### Property & Assessment Values

<b>Mkt Land Value</b>	cnt: (2)	\$41,600.00
<b>Ag Land Value</b>	cnt: (0)	\$0.00
<b>Building Value</b>	cnt: (1)	\$23,059.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$64,659.00

<b>Just Value</b>	\$64,659.00
<b>Class Value</b>	\$0.00
<b>Assessed Value</b>	\$42,431.00
<b>Exempt Value</b>	(code: HX) \$25,000.00
<b>Total Taxable Value</b>	\$17,431.00

### Sales History

Sale Date	Book/Page	Inst. Type	Sale VImp	Sale Qual	Sale RCode	Sale Price
2/1/1996	816/2253	WD	V	Q		\$8,100.00

### Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
1	MOBILE HME (000800)	1993	Alum Siding (26)	1064	1064	\$23,059.00
<b>Note:</b> All S.F. calculations are based on exterior building dimensions.						

### Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

### Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000200	MBL HM (MKT)	3.000 AC	1.00/1.00/1.00/1.00	\$13,200.00	\$39,600.00
009945	WELL/SEPT (MKT)	1.000 UT - (.000AC)	1.00/1.00/1.00/1.00	\$2,000.00	\$2,000.00

**This Warranty Deed** Made the 1st. day of February A. D. 1996 by  
Morris Lamar Markham, a single person

hereinafter called the grantor, to

Jason H. Howell Route 1, Box 110 Lulu, Florida 32061  
(SS# [REDACTED])  
whose postoffice address is  
hereinafter called the grantee:

(Wherever 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, alien, re-mises, releases, conveys and confirms unto the grantee, all that certain land situate in Columbia County, Florida, viz:

**TOWNSHIP 5 SOUTH, RANGE 17 EAST:**

**SECTION 25:** Commence at the Northwest corner of the NE $\frac{1}{4}$  of SE $\frac{1}{4}$ , Section 25, Township 5 South, Range 17 East, Columbia County, Florida, and run thence S 0°23'26" E along the West line of said NE $\frac{1}{4}$  of SE $\frac{1}{4}$ , 16.30 feet to the South right of way line of State Road No. 349, thence N 89°19'00" E along said South right of way line, 3.53 feet, thence S 0°41'00" E along said South right of way line, 7.00 feet, thence N 89°19'00" E along said South right of way line 284.47 feet to the Point of Beginning, thence continue N 89°19'00" E along said South right of way line, 288.03 feet, thence S 0°23'26" E, 453.71 feet, thence S 89°19'00" W, 288.03 feet, thence N 0°23'26" W, 453.71 feet to the Point of Beginning.

**Together** with all the tenements, hereditaments and appurtenances thereto belonging or in any-wise 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, 1995

SK 0816 PG 2253

FILED  
RECORDS

1996 FEB -1 PM 2:07

OFFICIAL RECORDS

96-01408

**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:

Elaine R. Davis  
Elaine R. Davis  
Carol H. Wright

Morris Lamar Markham  
Morris Lamar Markham

STATE OF Florida  
COUNTY OF Columbia

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared

Morris Lamar Markham

to me known to be the person described in and who executed the foregoing instrument and he acknowledged before me that he executed the same.

WITNESS my hand and official seal in the County and State last aforesaid this 1st day of

Feb. A. D. 1996  
Carol H. Wright

This Instrument prepared by: Morris Lamar Markham

Address

SP. 1. BELOW FOR RECORDERS USE

TRANSFERRER'S STATE 456.70  
INTANGIBLE TAX  
P. DEWITT CASON, CLERK OF  
COURTS, COLUMBIA COUNTY  
CAROL H. WRIGHT  
Notary Public - State of Florida  
My Commission Expires: April 9, 1998  
Commission No. 00350011

executive line

THIS INSTRUMENT PREPARED BY

SK 0702 PG0785

OFFICIAL RECORDS

# This Indenture,

"The terms 'grantor' and 'grantee' herein shall be construed to include all grantors and grantees as placed on the correct instrument."

Made this 20th day of November 19 89 Between  
BESSIE G. HARDEN, surviving widow of B.F. HARDEN  
Social Security No(s)  
of the County of Columbia, State of Florida, grantor, and

MORRIS LAMAR MARKHAM Social Security No(s)  
whose post office address is Rt. 1, Box 111, Lulu, Florida 32061  
of the County of Columbia, State of Florida, grantee,

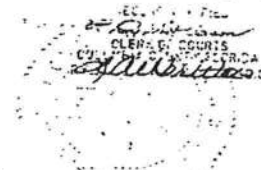
Witnesseth: That said grantor for and in consideration of the sum of TEN AND NO/100----- Dollars, and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs, successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

SEE ATTACHED EXHIBIT "A"

DOCUMENTARY STAMP 55  
INTANGIBLE TAX 55  
F. DEWITT CASON, CLERK OF  
COURTS, COLUMBIA COUNTY  
BY [Signature]

98 13827

RECORDED  
1989 NOV 22 AM 10:15



The property appraiser's parcel identification number of the property is:

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever

In witness whereof, Grantor has hereunto set grantor's hand and seal the day and year first above written. Signed, sealed and delivered in our presence:

[Signature]  
[Signature]

Bessie G. Harden Seal  
BESSIE G. HARDEN Seal  
Seal  
Seal

STATE OF FLORIDA  
COUNTY OF COLUMBIA

I HEREBY CERTIFY that on this day, before me, an officer duly qualified to take acknowledgments, personally appeared

BESSIE G. HARDEN

to me known to be the person(s) described in and who executed the foregoing instrument and acknowledged before me the execution of same.

WITNESS my hand and official seal in the County and State last aforesaid this 20th day of November, 1989.

Notary Public

My commission expires: March 1, 1992

NOTARIAL PUBLIC SUPPLEMENTAL FORM

revised 10/88

**EXHIBIT "A"**

Commence at the Northwest corner of the NE 1/4 of SE 1/4, Section 25, Township 5 South, Range 17 East, Columbia County, Florida, and run thence S 0°23'26" E along the West line of said NE 1/4 of SE 1/4, 16.30 feet to the South right-of-way line of State Road No. 349, thence N 89°19'00" E along said South right-of-way line, 3.53 feet, thence S 0°41'00" E along said South right-of-way line, 7.00 feet, thence N 89°19'00" E along said South right-of-way line, 284.47 feet to the POINT OF BEGINNING, thence continue N 89°19'00" E along said South right-of-way line, 288.03 feet, thence S 0°23'26" E, 453.71 feet, thence S 89°19'00" W, 288.03 feet, thence N 0°23'26" W, 453.71 feet to the POINT OF BEGINNING. Containing 3.60 acres, more or less.

N.B.: Eunice Stevens shall have the right of First Refusal during her lifetime to purchase the property, if all or any portion is sold by Grantee.

EX 0702 REC 0786  
OFFICIAL RECORDS



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: **Howell Residence**  
Address:  
City, State: **, FL**  
Owner: **Jason Howell**  
Climate Zone: **North**

Builder: **J. Norris**  
Permitting Office: **Columbia**  
Permit Number: **27168**  
Jurisdiction Number: **221000**

1. New construction or existing New ☐
2. Single family or multi-family Single family ☐
3. Number of units, if multi-family 1 ☐
4. Number of Bedrooms 3 ☐
5. Is this a worst case? No ☐
6. Conditioned floor area (ft<sup>2</sup>) 1496 ft<sup>2</sup> ☐
7. Glass type<sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default)
  - a. U-factor: Description Area  
(or Single or Double DEFAULT) 7a. (Dble Default) 115.0 ft<sup>2</sup> ☐
  - b. SHGC:  
(or Clear or Tint DEFAULT) 7b. (Clear) 115.0 ft<sup>2</sup> ☐
8. Floor types
  - a. Stem Wall R=19.0, 1496.0ft<sup>2</sup> ☐
  - b. N/A ☐
  - c. N/A ☐
9. Wall types
  - a. Frame, Wood, Exterior R=13.0, 1333.0 ft<sup>2</sup> ☐
  - b. N/A ☐
  - c. N/A ☐
  - d. N/A ☐
  - e. N/A ☐
10. Ceiling types
  - a. Under Attic R=30.0, 1496.0 ft<sup>2</sup> ☐
  - b. N/A ☐
  - c. N/A ☐
11. Ducts
  - a. Sup: Unc. Ret: Unc. AH: Interior Sup. R=6.0, 50.0 ft ☐
  - b. N/A ☐

12. Cooling systems
  - a. Central Unit Cap: 32.0 kBtu/hr ☐  
SEER: 13.00 ☐
  - b. N/A ☐
  - c. N/A ☐
13. Heating systems
  - a. Electric Heat Pump Cap: 32.0 kBtu/hr ☐  
HSPF: 7.80 ☐
  - b. N/A ☐
  - c. N/A ☐
14. Hot water systems
  - a. Electric Resistance Cap: 20.0 gallons ☐  
EF: 0.95 ☐
  - b. N/A ☐
  - c. Conservation credits  
(HR-Heat recovery, Solar  
DHP-Dedicated heat pump) ☐
15. HVAC credits PT, CF, ☐  
(CF-Ceiling fan, CV-Cross ventilation,  
HF-Whole house fan,  
PT-Programmable Thermostat,  
MZ-C-Multizone cooling,  
MZ-H-Multizone heating)

Glass/Floor Area: 0.08

Total as-built points: 18162

Total base points: 22303

## PASS

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

PREPARED BY: Deborah Motes

DATE: 6-17-08

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: , , FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area				Overhang Type/SC Ornt Len Hgt Area X SPM X SOF = Points							
.18	1496.0	18.59	5006.0	1.Double, Clear	N	1.5	6.0	15.0	19.20	0.94	270.0
				2.Double, Clear	N	1.5	6.0	30.0	19.20	0.94	540.0
				3.Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.0
				4.Double, Clear	S	1.5	6.0	30.0	35.87	0.86	921.0
				5.Double, Clear	E	1.5	6.0	4.0	42.06	0.91	153.0
				6.Double, Clear	W	1.5	6.0	15.0	38.52	0.91	527.0
				7.Double, Clear	W	1.5	6.0	6.0	38.52	0.91	211.0
				As-Built Total:				115.0		3082.0	
WALL TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior		13.0		1333.0	1.50	1999.5	
Exterior	1333.0	1.70	2266.1								
Base Total:		1333.0	2266.1	As-Built Total:				1333.0		1999.5	
DOOR TYPES Area X BSPM = Points				Type		Area X SPM = Points					
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				15.0	4.10	61.5	
Exterior	48.0	6.10	292.8	2.Exterior Insulated				33.0	4.10	135.3	
Base Total:		48.0	292.8	As-Built Total:				48.0		196.8	
CEILING TYPES Area X BSPM = Points				Type		R-Value		Area X SPM X SCM = Points			
Under Attic	1496.0	1.73	2588.1	1. Under Attic		30.0		1496.0	1.73 X 1.00	2588.1	
Base Total:		1496.0	2588.1	As-Built Total:				1496.0		2588.1	
FLOOR TYPES Area X BSPM = Points				Type		R-Value		Area X SPM = Points			
Slab	0.0(p)	0.0	0.0	1. Stem Wall		19.0		1496.0	-4.70	-7031.2	
Raised	1496.0	-3.99	-5969.0								
Base Total:		-5969.0		As-Built Total:				1496.0		-7031.2	
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
1496.0 10.21 15274.2				1496.0 10.21 15274.2							

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

ADDRESS: , , FL,

PERMIT #:

BASE				AS-BUILT						
<b>Summer Base Points: 19458.1</b>				<b>Summer As-Built Points: 16109.3</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
<b>19458.1</b>	<b>0.3250</b>		<b>6323.9</b>	<small>(sys 1: Central Unit 32000btuh , SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)</small> 16109      1.00    (1.09 x 1.147 x 0.91)    0.260      0.902      4300.6 <b>16109.3      1.00      1.138      0.260      0.902      4300.6</b>						

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

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	1496.0	20.17	5431.0	1.Double, Clear	N	1.5	6.0	15.0	24.58	1.00	369.0
				2.Double, Clear	N	1.5	6.0	30.0	24.58	1.00	739.0
				3.Double, Clear	S	1.5	6.0	15.0	13.30	1.12	222.0
				4.Double, Clear	S	1.5	6.0	30.0	13.30	1.12	445.0
				5.Double, Clear	E	1.5	6.0	4.0	18.79	1.04	77.0
				6.Double, Clear	W	1.5	6.0	15.0	20.73	1.02	318.0
				7.Double, Clear	W	1.5	6.0	6.0	20.73	1.02	127.0
				<b>As-Built Total:</b>				115.0	2297.0		
<b>WALL TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior	13.0		1333.0	3.40		4532.2	
Exterior	1333.0	3.70	4932.1								
<b>Base Total:</b>				<b>As-Built Total:</b>		1333.0		4532.2			
<b>DOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	1.Exterior Insulated			15.0	8.40		126.0	
Exterior	48.0	12.30	590.4	2.Exterior Insulated			33.0	8.40		277.2	
<b>Base Total:</b>				<b>As-Built Total:</b>		48.0		403.2			
<b>CEILING TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1496.0	2.05	3066.8	1. Under Attic	30.0		1496.0	2.05 X 1.00		3066.8	
<b>Base Total:</b>				<b>As-Built Total:</b>		1496.0		3066.8			
<b>FLOOR TYPES</b> Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	0.0(p)	0.0	0.0	1. Stem Wall	19.0		1496.0	2.30		3440.8	
Raised	1496.0	0.96	1436.2								
<b>Base Total:</b>				<b>As-Built Total:</b>		1496.0		3440.8			
<b>INFILTRATION</b> Area X BWPM = Points				Area X WPM = Points							
1496.0 -0.59 -882.6				1496.0 -0.59 -882.6							

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

PERMIT #:

BASE			AS-BUILT						
<b>Winter Base Points: 14573.8</b>			<b>Winter As-Built Points: 12857.4</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	
14573.8	0.5540	8073.9	(sys 1: Electric Heat Pump 32000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Int(AH),R6.0 12857.4	1.000	(1.069 x 1.169 x 0.93) 0.437	0.950	0.950	6206.0	
<b>14573.8</b>	<b>0.5540</b>	<b>8073.9</b>	<b>12857.4</b>	<b>1.00</b>	<b>1.162</b>	<b>0.437</b>	<b>0.950</b>	<b>6206.0</b>	

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: , , FL,

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	20.0	0.95	3	1.00	2551.79	1.00 7655.4
				As-Built Total:					7655.4

**CODE COMPLIANCE STATUS**

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
6324		8074		7905 22303	4301		6206		7655 18162

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: , , 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\* = 88.6**

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

Jason Howell, , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 32.0 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?	No	___	c. N/A	___
6. Conditioned floor area (ft <sup>2</sup> )	1496 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: 32.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 115.0 ft <sup>2</sup>	___		HSPF: 7.80
b. SHGC:		___	b. N/A	___
(or Clear or Tint DEFAULT)	7b. (Clear) 115.0 ft <sup>2</sup>	___	c. N/A	___
8. Floor types		___	14. Hot water systems	
a. Stem Wall	R=19.0, 1496.0ft <sup>2</sup>	___	a. Electric Resistance	Cap: 20.0 gallons
b. N/A	___	___		EF: 0.95
c. N/A	___	___	b. N/A	___
9. Wall types		___	c. Conservation credits	___
a. Frame, Wood, Exterior	R=13.0, 1333.0 ft <sup>2</sup>	___	(HR-Heat recovery, Solar	___
b. N/A	___	___	DHP-Dedicated heat pump)	___
c. N/A	___	___	15. HVAC credits	PT, CF, ___
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, 1496.0 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, 50.0 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® (Version: FLRCPB v4.5)

# BUILDING INPUT SUMMARY REPORT

<b>PROJECT</b>	Title: Howell Residence		Family Type: Single		Address Type: Street Address			
	Owner: Jason Howell		New/Existing: New		Lot #: N/A			
	# of Units: 1		Bedrooms: 3		Subdivision: N/A			
	Builder Name: J. Norris		Conditioned Area: 1496		Platbook: N/A			
	Climate: North		Total Stories: 1		Street: (blank)			
	Permit Office: (blank)		Worst Case: No		County: Columbia			
Jurisdiction #: (blank)		Rotate Angle: (blank)		City, St, Zip: , FL,				
<b>FLOORS</b>	#	Floor Type	R-Val	Area/Perimeter	Units			
	1	Stem Wall	19.0	1496.0ft²	1			
<b>DOORS</b>	#	Door Type	Orientation	Area	Units			
	1	Insulated	Exterior	15.0 ft²	1			
<b>CEILINGS</b>	#	Ceiling Type	R-Val	Area	Base Area	Units		
	1	Under Attic	30.0	1496.0 ft²	1496.0 ft²	1		
Credit Multipliers: None								
<b>COOLING</b>	#	System Type	Efficiency	Capacity				
	1	Central Unit	SEER: 13.00	32.0 kBtu/hr				
Credit Multipliers: Ceil Fn, PT								
<b>WALLS</b>	#	Wall Type	Location	R-Val	Area	Units		
	1	Frame - Wood	Exterior	13.0	1333.0 ft²	1		
<b>HEATING</b>	#	System Type	Efficiency	Capacity				
	1	Electric Heat Pump	HSPF: 7.80	32.0 kBtu/hr				
Credit Multipliers: PT								
<b>DUCTS</b>	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length		
	1	Uncond.	Uncond.	Interior	6.0	50.0 ft		
Credit Multipliers: None								
<b>WATER</b>	#	System Type	EF	Cap.	Conservation Type	Con. EF		
	1	Electric Resistance	0.95	20.0	None	0.00		
<b>REFR.</b>	#	Use Default?	Annual Operating Cost	Electric Rate				
	1	Yes	N/A	N/A				
<b>WINDOWS</b>	#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
	1	Double	Clear	N	15.0 ft²	1.5 ft	6.0 ft	1
	2	Double	Clear	N	30.0 ft²	1.5 ft	6.0 ft	1
	3	Double	Clear	S	15.0 ft²	1.5 ft	6.0 ft	1
	4	Double	Clear	S	30.0 ft²	1.5 ft	6.0 ft	1
	5	Double	Clear	E	4.0 ft²	1.5 ft	6.0 ft	1
	6	Double	Clear	W	15.0 ft²	1.5 ft	6.0 ft	1
7	Double	Clear	W	6.0 ft²	1.5 ft	6.0 ft	1	
<b>MISC</b>	Rater Name: CodeOnlyPro		Class #: 3		Pool Size: 0			
	Rater Certification #: CodeOnlyPro		Duct Leakage Type: N/A		Pump Size: 0.00 hp			
	Area Under Fluorescent: 0.0		Visible Duct Disconnects: N/A		Dryer Type: Electric			
	Area Under Incandescent: 1496.0		Leak Free Duct System Proposed: No		Stove Type: Electric			
NOTE: Not all Rating info shown		HRV/ERV System Present?: No		Avg Ceil Hgt:				

# Residential System Sizing Calculation

## Summary

Jason Howell

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

, FL

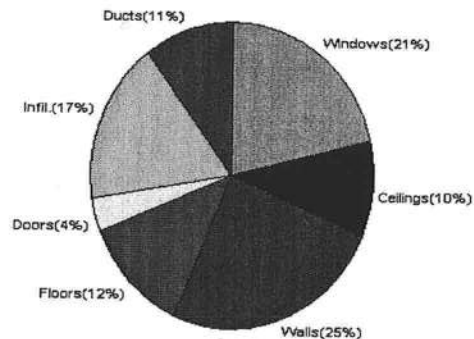
6/17/2008

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>17316</b>	<b>Btuh</b>	<b>Total cooling load calculation</b>	<b>17987</b>	<b>Btuh</b>
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	184.8	32000	Sensible (SHR = 0.75)	156.1	24000
Heat Pump + Auxiliary(0.0kW)	184.8	32000	Latent	306.4	8000
			Total (Electric Heat Pump)	177.9	32000

## WINTER CALCULATIONS

Winter Heating Load (for 1496 sqft)

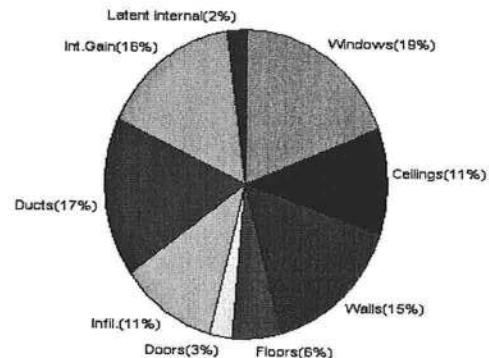
Load component		Load	
Window total	115 sqft	3702	Btuh
Wall total	1333 sqft	4378	Btuh
Door total	48 sqft	622	Btuh
Ceiling total	1496 sqft	1763	Btuh
Floor total	1496 sqft	2116	Btuh
Infiltration	72 cfm	2909	Btuh
Duct loss		1828	Btuh
<b>Subtotal</b>		<b>17316</b>	<b>Btuh</b>
Ventilation	0 cfm	0	Btuh
<b>TOTAL HEAT LOSS</b>		<b>17316</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1496 sqft)

Load component		Load	
Window total	115 sqft	3420	Btuh
Wall total	1333 sqft	2780	Btuh
Door total	48 sqft	470	Btuh
Ceiling total	1496 sqft	2001	Btuh
Floor total		1026	Btuh
Infiltration	36 cfm	668	Btuh
Internal gain		2860	Btuh
Duct gain		2149	Btuh
Sens. Ventilation	0 cfm	0	Btuh
<b>Total sensible gain</b>		<b>15375</b>	<b>Btuh</b>
Latent gain(ducts)		899	Btuh
Latent gain(infiltration)		1312	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		400	Btuh
<b>Total latent gain</b>		<b>2611</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>17987</b>	<b>Btuh</b>



Version 8  
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Debra A. Motes

DATE: 6-17-08

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

Jason Howell

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/17/2008

### Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	N	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	N	30.0		32.2	966 Btuh
3	2, Clear, Metal, 0.87	S	15.0		32.2	483 Btuh
4	2, Clear, Metal, 0.87	S	30.0		32.2	966 Btuh
5	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh
6	2, Clear, Metal, 0.87	W	15.0		32.2	483 Btuh
7	2, Clear, Metal, 0.87	W	6.0		32.2	193 Btuh
Window Total			115(sqft)			3702 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1333		3.3	4378 Btuh
Wall Total			1333			4378 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		33		12.9	427 Btuh
2	Insulated - Exterior		15		12.9	194 Btuh
Door Total			48			622Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1496		1.2	1763 Btuh
Ceiling Total			1496			1763Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Stem Wall with Stem Wall I	19	1496.0 sqft		1.4	2116 Btuh
Floor Total			1496			2116 Btuh
Envelope Subtotal:						12579 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.32	13464	1333	46.1	2909 Btuh
Ductload	(DLM of Mixed ducts)					1828 Btuh
All Zones	Sensible Subtotal All Zones					17316 Btuh

### WHOLE HOUSE TOTALS

	Subtotal Sensible	17316 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17316 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Jason Howell

, FL

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

6/17/2008

### EQUIPMENT

1. Electric Heat Pump	#	32000 Btuh
-----------------------	---	------------

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 )



Version 8  
For Florida residences only

# System Sizing Calculations - Winter

## Residential Load - Room by Room Component Details

Jason Howell

, FL

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

6/17/2008

### Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load	
1	2, Clear, Metal, 0.87	N	15.0		32.2	483 Btuh	
2	2, Clear, Metal, 0.87	N	30.0		32.2	966 Btuh	
3	2, Clear, Metal, 0.87	S	15.0		32.2	483 Btuh	
4	2, Clear, Metal, 0.87	S	30.0		32.2	966 Btuh	
5	2, Clear, Metal, 0.87	E	4.0		32.2	129 Btuh	
6	2, Clear, Metal, 0.87	W	15.0		32.2	483 Btuh	
7	2, Clear, Metal, 0.87	W	6.0		32.2	193 Btuh	
	Window Total		115(sqft)			3702 Btuh	
Walls	Type	R-Value	Area	X	HTM=	Load	
1	Frame - Wood - Ext(0.09)	13.0	1333		3.3	4378 Btuh	
	Wall Total		1333			4378 Btuh	
Doors	Type		Area	X	HTM=	Load	
1	Insulated - Exterior		33		12.9	427 Btuh	
2	Insulated - Exterior		15		12.9	194 Btuh	
	Door Total		48			622Btuh	
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load	
1	Vented Attic/L/Shin	30.0	1496		1.2	1763 Btuh	
	Ceiling Total		1496			1763Btuh	
Floors	Type	R-Value	Size	X	HTM=	Load	
1	Stem Wall with Stem Wall I	19	1496.0 sqft		1.4	2116 Btuh	
	Floor Total		1496			2116 Btuh	
	Zone Envelope Subtotal:					12579 Btuh	
Infiltration	Type	ACH	X	Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.32		13464	1333	46.1	1868 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.127)					1828 Btuh	
Zone #1	Sensible Zone Subtotal					16275 Btuh	

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Jason Howell

, FL

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

6/17/2008

### WHOLE HOUSE TOTALS

	Subtotal Sensible	17316 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17316 Btuh

### EQUIPMENT

1. Electric Heat Pump	#	32000 Btuh
-----------------------	---	------------

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 )



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Whole House Component Details

Jason Howell

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/17/2008

### 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, B-D, N,H	N	1.5ft	6ft.	15.0	0.0	15.0	21	21	315 Btuh	
2	2, Clear, 0.87, B-D, N,H	N	1.5ft	6ft.	30.0	0.0	30.0	21	21	631 Btuh	
3	2, Clear, 0.87, B-D, N,H	S	1.5ft	6ft.	15.0	15.0	0.0	21	26	315 Btuh	
4	2, Clear, 0.87, B-D, N,H	S	1.5ft	6ft.	30.0	30.0	0.0	21	26	631 Btuh	
5	2, Clear, 0.87, B-D, N,H	E	1.5ft	6ft.	4.0	0.0	4.0	21	62	249 Btuh	
6	2, Clear, 0.87, B-D, N,H	W	1.5ft	6ft.	15.0	0.7	14.3	21	62	905 Btuh	
7	2, Clear, 0.87, B-D, N,H	W	1.5ft	6ft.	6.0	0.0	6.0	21	62	374 Btuh	
Window Total					115 (sqft)					3420 Btuh	
Walls	Type	R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09		1333.0			2.1		2780 Btuh		
Wall Total				1333 (sqft)					2780 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Insulated - Exterior				33.0		9.8		323 Btuh		
2	Insulated - Exterior				15.0		9.8		147 Btuh		
Door Total				48 (sqft)				470 Btuh			
Ceilings	Type/Color/Surface	R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/Light/Shingle	30.0		1496.0			1.3		2001 Btuh		
Ceiling Total				1496 (sqft)					2001 Btuh		
Floors	Type	R-Value		Size			HTM		Load		
1	Stem Wall with Stem Wall Insul	19.0		1496 (sqft)			0.7		1026 Btuh		
Floor Total				1496.0 (sqft)					1026 Btuh		
Envelope Subtotal:									9698 Btuh		
Infiltration	Type	ACH		Volume(cuft)		wall area(sqft)		CFM=		Load	
	SensibleNatural	0.16		13464		1333		46.1		668 Btuh	
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	2		X 230		+		2400		2860 Btuh		
Sensible Envelope Load:									13226 Btuh		
Duct load	(DGMs vary for Mixed ducts)									2149 Btuh	
Sensible Load All Zones									15375 Btuh		

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Jason Howell  
FL

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

6/17/2008

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>13226 Btuh</b>
	Sensible Duct Load	2149 Btuh
	<b>Total Sensible Zone Loads</b>	<b>15375 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>15375 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	1312 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	899 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>2611 Btuh</b>
	<b>TOTAL GAIN</b>	<b>17987 Btuh</b>

### EQUIPMENT

1. Central Unit	#	32000 Btuh
-----------------	---	------------

\*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)



Version 8  
For Florida residences only

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

Jason Howell

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

6/17/2008

### 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, B-D, N,H	N	1.5ft	6ft.	15.0	0.0	15.0	21	21	315 Btuh
2	2, Clear, 0.87, B-D, N,H	N	1.5ft	6ft.	30.0	0.0	30.0	21	21	631 Btuh
3	2, Clear, 0.87, B-D, N,H	S	1.5ft	6ft.	15.0	15.0	0.0	21	26	315 Btuh
4	2, Clear, 0.87, B-D, N,H	S	1.5ft	6ft.	30.0	30.0	0.0	21	26	631 Btuh
5	2, Clear, 0.87, B-D, N,H	E	1.5ft	6ft.	4.0	0.0	4.0	21	62	249 Btuh
6	2, Clear, 0.87, B-D, N,H	W	1.5ft	6ft.	15.0	0.7	14.3	21	62	905 Btuh
7	2, Clear, 0.87, B-D, N,H	W	1.5ft	6ft.	6.0	0.0	6.0	21	62	374 Btuh
	Window Total				115 (sqft)					3420 Btuh
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load
1	Frame - Wood - Ext		13.0/0.09		1333.0			2.1		2780 Btuh
	Wall Total				1333 (sqft)					2780 Btuh
Doors	Type				Area (sqft)			HTM		Load
1	Insulated - Exterior				33.0			9.8		323 Btuh
2	Insulated - Exterior				15.0			9.8		147 Btuh
	Door Total				48 (sqft)					470 Btuh
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load
1	Vented Attic/Light/Shingle		30.0		1496.0			1.3		2001 Btuh
	Ceiling Total				1496 (sqft)					2001 Btuh
Floors	Type		R-Value		Size			HTM		Load
1	Stem Wall with Stem Wall Insul		19.0		1496 (sqft)			0.7		1026 Btuh
	Floor Total				1496.0 (sqft)					1026 Btuh
	Zone Envelope Subtotal:									9698 Btuh
Infiltration	Type		ACH		Volume(cuft)		wall area(sqft)		CFM=	Load
	SensibleNatural		0.16		13464		1333		23.1	429 Btuh
Internal gain			Occupants		Btuh/occupant			Appliance		Load
			2		X 230 +			2400		2860 Btuh
	Sensible Envelope Load:									12987 Btuh
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DGM of 0.165)									2149 Btuh
	Sensible Zone Load									15136 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Jason Howell

Project Title:  
Howell Residence

Code Only  
Professional Version  
Climate: North

, FL

6/17/2008

### WHOLE HOUSE TOTALS

<b>Whole House Totals for Cooling</b>	<b>Sensible Envelope Load All Zones</b>	<b>13226 Btuh</b>
	Sensible Duct Load	2149 Btuh
	<b>Total Sensible Zone Loads</b>	<b>15375 Btuh</b>
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	<b>Total sensible gain</b>	<b>15375 Btuh</b>
	Latent infiltration gain (for 54 gr. humidity difference)	1312 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	899 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	<b>Latent total gain</b>	<b>2611 Btuh</b>
	<b>TOTAL GAIN</b>	<b>17987 Btuh</b>

### EQUIPMENT

1. Central Unit	#	32000 Btuh
-----------------	---	------------

\*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)



Version 8  
For Florida residences only

# Residential Window Diversity

## MidSummer

Jason Howell

Project Title:  
Howell Residence

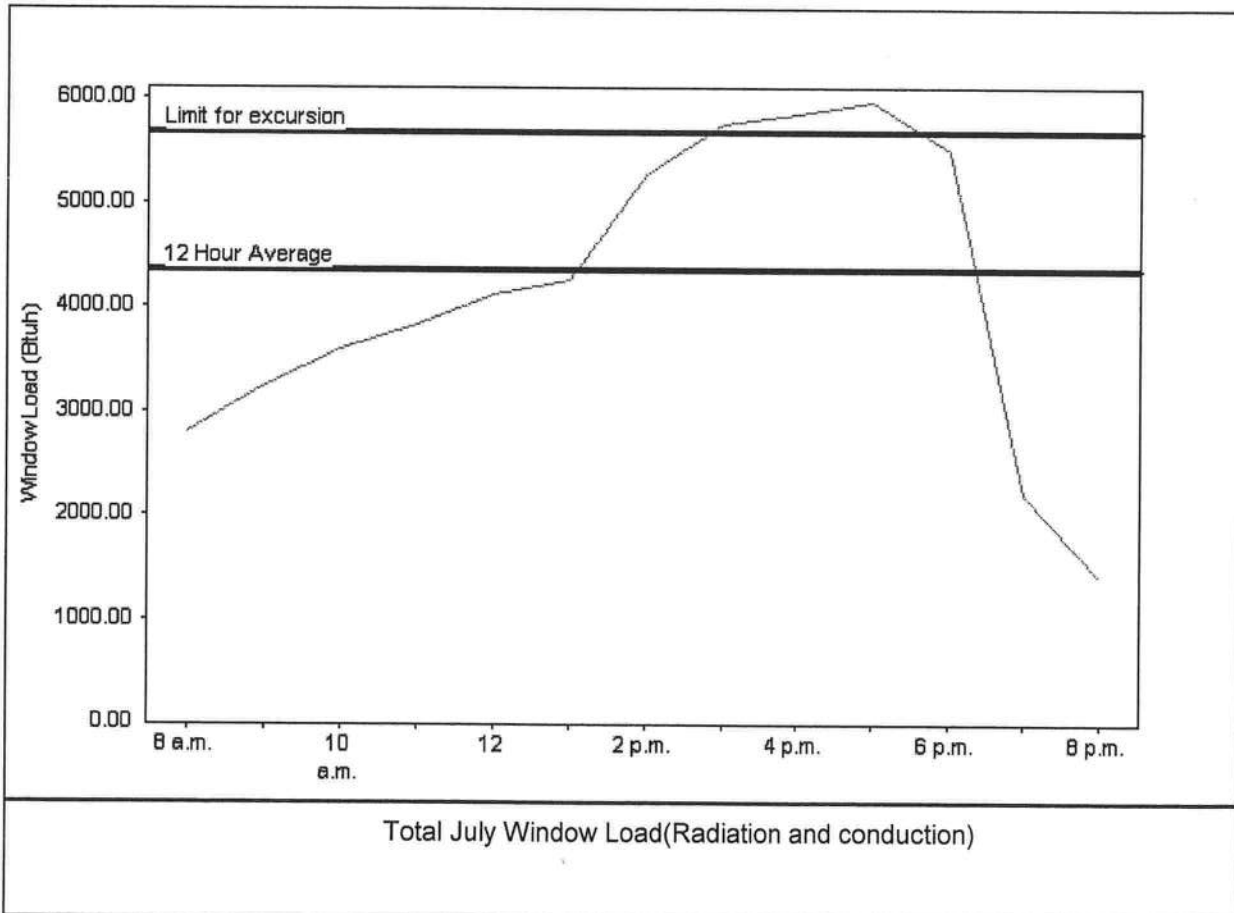
Code Only  
Professional Version  
Climate: North

6/17/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	4366 Btuh
Summer setpoint	75 F	Peak window load for July	5961 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	5676 Btuh
Latitude	29 North	Window excursion (July)	284 Btuh

## WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: Delia A. Motes

DATE: 6-17-08



# Columbia County Building Department

## Residential Plan Review Checklist

**Application # 0806-47**

Date Received: 6-24-08

911 Address: 144 SE Bunny CT.

Applicant Name: John Norris

Phone # 961-4549

Owner Name: Jason Howell

Phone # 365-8760

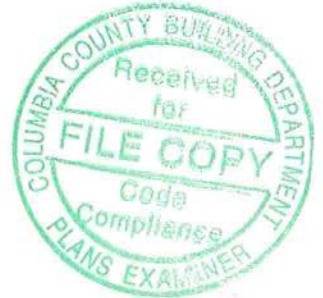
Contractor Name: John Norris

Phone # 961-4549

Engineer/Architect Name: Freeman Design

Phone # 758-4209

Fax Numbers: 758-9530



### Application and Processing Forms

1.	Application & Checklist complete	No
2.	Notice of Commencement recorded at Columbia County Clerk office.	Yes
3.	Parcel Number 25 Section 5S Township 17Range -09382-003 Subdivision Name N/A 3 Acres	
4.	A copy of a approved Columbia County Environmental Health waste disposal system (if no <u>Septic Tan</u>	No
5.	Owner Builder disclosure statement	N/A

6.	Front Setback 274' Side Setback 104 Side Setback 133 Rear Setback 140	
7.	Height of proposed structure measured from existing grade. 18'3"	
8.	Under roof square footage 1945	
9.	Condition heated/cooled area 1496 Matches Florida energy code	Yes
10.	Do worksheet calculations agree with calculations on plans?	Yes
11.	Is the structure within the floodway?	No

### Structure Code Compliance

12.	Are plans sealed by Architect or <u>Engineer</u> ?	Yes
13.	Is correct wind speed shown? (FBC R301.2(4)) 110 MPH ( 3 second gust )	Yes
14.	Is exposure category 'B' shown? (FBC R301.2.1.4)	Yes
15.	Is Importance Factor 1 shown? (FBC 1604.5)	Yes
16.	Is internal pressure coefficient shown? (fully enclosed .18/Partial .55) ASCE 7	Yes
17.	Are pressures for wind loading on components and cladding shown? (FBC R301.2)	Yes

18.	Is there a proposed detach accessory structure on the same lot?	No
19.	Are the exterior walls, less than 6' apart, protected by 1 hr fire-resistance rating? (FBC R302.1)	No
20.	Are the projections extending into the 6' separation distance protected by 1 hr fire-resistance rating? (FBC R302.1)	No
21.	Are penetrations located in the exterior wall of a dwelling separated by less than 6' protected in accordance with FBC R317.3?	No

### Energy Code Information

22.	Is current energy code form completed properly and signed by designer and owner/agent, address, climate zone(3), Jurisdiction (Columbia County) and jurisdiction number (221000)? (FBC 13-600)	Yes
23.	Does conditioned square feet area on plans match square feet shown on energy forms?	Yes
24.	Manuel J submitted?	No

### Construction Plans

25.	Is Designer's name, address and phone number shown on plans?	Yes
26.	Are current codes used for design listed?	Yes

### Foundation Plan

27.	Are all footings shown, including interior bearing walls, column pads and concentrated loads?	Yes
28.	Are all locations of vertical reinforcement and anchor bolts shown with spacing and size?	Yes
29.	Are all elevation changes in slab shown?	Yes
30.	Are horizontal reinforcement shown or specified? ½" Thread Rods	Yes
31.	Is minimum concrete PSI shown? ( FBC R402.2) 2500 PSI 3,000 PSI 28 Days	Yes
32.	Wire meshes size and gauges shown?	N/A
33.	Fiber meshes reinforcement?	Yes
34.	Is vapor barrier, minimum 6 mil. shown? (FBC R320.1.4 & R506.2.3)	Yes
35.	Is minimum slab on grade thickness shown? (FBC R506.1) 3 1/2 "	Yes
36.	Is type of soil treatment for termites shown? (FBC R320)	Yes
37.	Is perimeter slab reinforcement shown?	Yes
38.	Do plans show bottom of foundation minimum of 12" below finish grade? (FBC R403.1.4)	Yes
39.	Do plans show concrete footings have a specified compressive strength of not less than 2500 PSI at 28 days? (FBC TABLE R402.2)	Yes

### Typical Wall Section

40.	Is finished grade shown?	No
41.	Is minimum floor elevation shown?	No
A.	Minimum 6" above adjacent grade? (FBC R319.1(5))	Yes

B.	Minimum 12" above crown of road or drainage plan submitted?	No
C.	Flood protection elevation?	No

### Typical Wall Section

D.	Base flood elevation?	N/A
E.	Are engineered floor elevations shown?	N/A
42.	Is minimum footing depth beneath finished grade shown? (FBC R403.1.4)	Yes
43.	Are all footing sizes shown? (FBC TABLE R403.1 for minimum)	Yes
44.	Are all horizontal reinforcements shown? (FBC R606.8)	Yes
A.	Number and size of reinforcement?	Yes
B.	Minimum lap?	Yes
43.	Is vertical reinforcement shown with spacing? (FBC R606.8)	N/A
44.	Masonry construction:	N/A
A.	Is exterior wall finish shown?	Yes
B.	Is interior wall finish shown?	Yes
C.	Is interior furring shown?	N/A
D.	Is insulation shown for exterior walls, floors, and roofs?	Yes
45.	Wood frame construction: (FBC R602.3)	Yes
A.	Is stud size, spacing, grade and lumber species shown? (FBC R602.3.1)	Yes
B.	Are exterior sheathing (type and thickness) and attachment details shown? (FBC R602.3)	Yes
C.	Are nailing requirements (size and spacing) shown? (FBC R602.3(1) through R602.3(4))	Yes
D.	Is exterior wall finish shown?	Yes
E.	Is interior wall finish shown?	Yes
F.	Is wall insulation shown?	Yes
G.	Is minimum clearance between wood siding and finished grade shown? (FBC R319.1(5)) 6"	Yes
H.	Are shear wall segments shown with detailed drawings?	Yes
I.	Type of hold-downs with locations, number and type of fasteners shown?	Yes
46.	Are all hurricane anchorage and hold-downs specified and labeled?	Yes
47.	Is connector schedule showing connector type, max uplift, number and size of fasteners provided?	No
48.	Is ceiling type shown, drywall thickness?	Yes
49.	Are ceiling heights shown? (FBC R305)	No

### Roof Framing:

50.	Are engineered trusses shown? (FBC R802.10.2)	Yes
51.	Are conventional frame rafters used? (FBC R802.2)	No
52.	Rafter size shown?	N/A
53.	Are all hurricane anchors and hold downs shown and specified?	N/A
54.	Species of lumber shown?	
55.	Grade of lumber shown?	
56.	Type of roof sheathing shown? (FBC R803)	
57.	Thickness of roof sheathing shown?	Yes
58.	Grade of roof sheathing shown?	Yes
59.	Nailing pattern of roof sheathing shown? (FBC Table R602.3(1))	Yes

60.	Type of roof cover shown?	Yes
61.	Attachment asphalt/fiberglass shingles shown? (FBC R905.2)	Yes
62.	Other roof covering and attachments shown?	NO
63.	Length of roof overhang shown?	Yes
64.	Type of soffit and fascia shown?	Yes
65.	Attic ventilation shown? (FBC R806)	Yes

## Floor Plan

66.	Does square footage on plan match square footage shown on energy form and site plan?	Yes
67.	Are square footage calculations shown for total square footage under roof?	Yes
68.	Are all room dimensions shown? (FBC R304.3)	Yes
69.	Are all door and window sizes shown?	Yes
70.	Are all exterior and adjacent doors shown to be insulated or solid core (other than glass doors)?	Yes
71.	Is garage separated from the residence and its attic area by not less than 1/2 inch gypsum board? (FBC R309.2)	Yes
72.	Are habitable rooms above the garage separated by not less than 5/8 inch Type X gypsum board? (FBC R309.2)	N/A
73.	Is door between garage and living space equipped with solid wood door not less than 1 3/8 inches, solid or honeycomb core steel door not less than 1 3/8 inches thick, or 20 minute fire-rated door? (FBC R309.1)	Yes
74.	Are all emergency egress openings shown (egress windows and doors)? (FBC R310.1)	Yes
75.	Is required tempered glass shown at all hazardous locations? (FBC R308.4)	Yes
76.	Are all vertical reinforcements shown for shear walls shown?	Yes
77.	Are all shear wall segments shown?	Yes
78.	Are all hold-downs and hurricane anchorage shown and identified?	No
79.	Is required attic access shown? - 22" x 30" (FBC R807.7)	Yes
80.	Does one (1) bathroom on the first habitable floor level have a 29" net clear door opening and handicap accessible route? (FBC 11-11) (minimum door size 32")	Yes
81.	Does bedroom not opening directly into garage? (FBC R309.1)	No
82.	Is at least one 3' 0" wide, side hinged egress door shown? (FBC R311.4)	Yes
83.	Do doors and landings comply with FBC R311.4.3?	Yes
84.	Are habitable rooms shown with the minimum light and ventilation requirements of FBC R303.1? (8% natural light)	Yes
85.	Are garage doors, all windows, doors, sky lights and other openings shown as meeting wind load requirements for components and cladding per FBC R301.2.1? Are design pressures specified?	Yes
86.	Does floor plan show fireplace?	No
87.	Does masonry fireplace have a detailed for a load-bearing foundation?	
88.	Are copies of pre-fabricated fireplace manufacturer's specifications included?	
89.	Is hearth size and detail shown? (FBC R1003.9)	

## Stairs Details

90.	Is minimum stair width shown? (FBC R311.5.1)	N/A
91.	Are tread and riser sizes shown? (FBC R311.5.3)	
92.	Do spiral stairways comply with FBC R311.5.8.1?	
93.	Are required landings and size shown? (Max vertical rise is 12' between floors.) (FBC R311.5.4)	
94.	Are handrail height, spacing and grasp ability details shown? (FBC R311.5.6)	
95.	Is required headroom clearance shown? (FBC R311.5.2) 6' 8"	

96.	Are guardrail height, spacing and details shown (max openings less than 4")? (FBC R312)	
97.	Are exterior door landing shown?	

## Porches

98.	Are all columns and beams shown for porches and lanais?	<b>YES</b>
99.	Are column type, size and anchorage shown?	
100.	Are beam type, size, span and anchorage shown including garage opening and porch beams?	<b>Yes</b>
101.	Are all lintel and beam details shown? (FBC R611.7.3)	

## Floor Framing (FBC-2307)

102.	Is joist plan provided, showing size, spacing, span, species, grade of lumber and connections?	
103.	Is floor sheathing indicated, showing type, thickness and nailing pattern? (FBC R503)	
104.	Is crawl space opening shown (18" x 24" minimum)? (FBC R408.3)	
105.	Is the crawl space showed to be insulated, showing R rating?	
106.	Is joist plan provided, showing size, spacing, span, species, grade of lumber and connections?	
107.	Is floor sheathing indicated, showing type, thickness and nailing pattern? (FBC R503)	
108.	Is crawl space opening shown (18" x 24" minimum)? (FBC R408.3)	
109.	Is the correct amount of area of ventilation openings shown? (FBC R408.2)	

## Elevations

110.	Does plan show four (4) elevations?	<b>Yes</b>
111.	Are attic ventilation requirements shown? (FBC R806.1)	<b>Yes</b>
112.	Are roof pitch and overhang shown for sloped and flat roofs?	<b>Yes</b>
113.	Is chimney height and location shown? (FBC R1001.6)	
114.	Are all lanai/porch details shown?	
115.	Are roof drainage provisions shown? (FBC R801.3)	
116.	Does the front elevation show the existing grade elevation?	<b>NO</b>
117.	Is total height shown from the existing grade, not from finished floor?	<b>Yes</b>

## Structural Details (also see Structural Code Compliance section)

118.	Are gable end bracing details shown?	<b>N/A</b>
119.	Are roof sheeting nailing zones shown? (FBC FIGURE R301.2(8))	<b>Yes</b>
120.	Are wind design pressures for components and cladding shown? (FBC R301.2)	<b>Yes</b>
121.	Are exterior windows and glass doors shown as approved by independent testing laboratory and do they bear a label by AAMA or WDMA or other approved label? (FBC R613.3.1)	<b>FPA</b>
122.	Are exterior window and door manufacturer's specifications and installation details which meet the specified design pressures provided?	<b>FPA</b>
123.	Are window and door installation and buck details shown?	<b>FPA</b>
124.	Are mullion installation details and design criteria provided	<b>FPA</b>
125.	Are garage door positive and negative design wind pressures shown as meeting requirements of 1.5 x pressure? (FBC R613.4)	<b>FPA</b>

126.	Are number and size of fasteners for all connections shown?	<b>NO</b>
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### Electrical (NEC)

127.	Is underground service specified? (WPA 106.3.4)	
128.	Is an exterior service disconnect shown?	
129.	Is service size (amps) and location shown? (NEC 230)	
123.	Are panel locations shown with proper clearances (NEC 384)?	
124.	Are disconnects shown (WH and A/C equipment) (NEC 440-14)? Include exterior 110 Volt receptacle GFI Near Ac Compressor	
125.	Are GFI receptacles (kitchen, bath, exteriors, basements and garage) shown? (NEC 210-8)	

### Electrical (NEC)

126.	Are all smoke detectors shown (bedroom halls, top & bottom of stairs)? (FBC R313.1)	<b>Yes</b>
127.	Are the required carbon monoxide alarm shown within 10 feet of each room used for sleeping room , with the dwelling having a fossil-fuel-burning heater or appliance, a fireplace, or an attached garage carbon monoxide alarm installed purposes.	<b>No</b>
128.	Are receptacle locations shown? (NEC 210-52) The <u>2008 National Electric Code</u> expands the Combination Type AFCI requirement beyond bedroom circuits to include <i>additional circuits in the home</i> , (i.e. family rooms, dining rooms, living rooms, hallways, libraries, dens, sun rooms, recreation rooms, and similar rooms.	<b>Yes</b>
129.	NEC Article 406.11 states that all 125-volt, 15- and 20-ampere receptacles shall be listed tamper-resistant receptacles the effective date will be upon the adoption of the 2008 NEC	
130.	Walls receptacles (12 ft. o.c. & 6 ft from openings)?	<b>Yes</b>
140.	Kitchen counter tops (12 in. widths, 48 in. o.c. and 2in. from edge of counter) and islands?	<b>Yes</b>
141.	Plan shows GFI – receptacles, with water proof or unattended type covers front and rear of dwelling.	<b>Yes</b>
142.	Is switched lighting shown? (NEC 210-70)	<b>Yes</b>
143.	A. Top and Bottom of stairs?	
144.	B. Attic access?	<b>Yes</b>
145.	C. Exterior doors?	<b>Yes</b>
146.	D. Occupiable rooms (light or switched receptacle)?	<b>Yes</b>
147.	Are all electrical fixtures shown?	<b>Yes</b>

### Plumbing (FPC)

148.	Are all plumbing fixtures shown on the foundation plan and floor plan?	<b>Yes</b>
149.	Is water heater size and location shown?	<b>Yes</b>
150.	Is the potable well shown on the site plan to include the size of pump motor, size of pressure tank and cycle stop valve?	<b>No</b>

### Mechanical (FMC)

151.	Are all mechanical fixtures shown?	<b>Yes</b>
152.	Are the clothes dryer vent route shown not to exceed 25 feet from the dryer location to the outlet terminal.(Fuel & Gas code 504.4)	<b>Yes</b>

# PRODUCT APPROVAL SPECIFICATION SHEET

**Location:** \_\_\_\_\_

**Project Name: Howell Residence**

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at [www.floridabuilding.org](http://www.floridabuilding.org)

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
<b>A. EXTERIOR DOORS</b>			
1. Swinging	Therma-Tru	Insulated Fiberglass door with wood frame	8838.1
2. Sliding	Lawson Ind.	Aluminum Sliding Glass Door	8338
3. Sectional	Clopay Bldg.	Single car sectional	5684.1
4. Roll up			
5. Automatic			
6. Other			
<b>B. WINDOWS</b>			
1. Single hung	PGT Ind.	Aluminium Single Hung Window	FI 1378
2. Horizontal Slider			239.5
3. Casement			<del>FL 80108</del> FI 5451
4. Double Hung			<del>FL 50150</del>
5. Fixed			
6. Awning			FL 5418
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
<b>C. PANEL WALL</b>			
1. Siding			
2. Soffits			FL 889-R2
3. EIFS			FL 4899
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			FL 3820-R1
9. Greenhouse			
10. Other			
<b>D. ROOFING PRODUCTS</b>			
1. Asphalt Shingles	Tamko	Asphalt roof shingle	03-0620-01
2. Underlayments			FL 1814-R1
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			



Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			FL 1760-R1
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
<b>E. SHUTTERS</b>			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
<b>F. SKYLIGHTS</b>			
1. Skylight			
2. Other			
<b>G. STRUCTURAL COMPONENTS</b>			
1. Wood connector/anchor			FL 474-R1
2. Truss plates			
3. Engineered lumber			FL 1008-R1
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
<b>H. NEW EXTERIOR ENVELOPE PRODUCTS</b>			
1.			
2.			

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) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

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

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Contractor or Contractor's Authorized Agent Signature

Location

Print Name

Date

Permit # (FOR STAFF USE ONLY)



## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental Laboratories

P.O. Box 1625 • Lake City, FL 32056-1625 • Tel(386)755-3633 • Fax(386)752-5456

4784 Rosselle St., Jacksonville, FL 32254 • Tel(904)381-8901 • Fax(904)381-8902

2230 Greensboro Hwy • Quincy, FL 32351 • Tel(850)442-3495 • Fax(850)442-4008

JOB NO.: 08-00335-01

DATE TESTED: 6/25/08

DATE REPORTED: 6/25/08

## REPORT OF IN-PLACE DENSITY TEST

PROJECT:	Howell Residence, Ellisville, FL
CLIENT:	Dale's Excavation, Inc., 6139 SW SR 47, Lake City, FL 32024
GENERAL CONTRACTOR:	Dale's Excavation, Inc.
EARTHWORK CONTRACTOR:	Dale's Excavation, Inc.
INSPECTOR:	G. Osburn
ASTM METHOD (D-2922) Nuclear	SOIL USE BUILDING FILL
SPECIFIED REQUIREMENTS: 98%	

TEST NO.	TEST LOCATION	TEST DEPTH	WET DENSITY (lb/ft <sup>3</sup> )	MOISTURE PERCENT	DRY DENSITY (lb/ft <sup>3</sup> )	PROCTOR TEST NO.	PROCTOR VALUE	MAXIMUM DENSITY
1	NW Corner, 10' South x 10' East	12"	123.4	11.3	110.9	08-055-1	110.4	100%
2	NE Corner, 15' South x 15' West	12"	122.4	8.3	113.0	08-055-1	110.4	102%
3	South End, Approx. Center x 15' North	12"	116.1	6.4	109.1	08-055-1	110.4	99%

### REMARKS:

The Above Tests Meet Specified Requirements.

PROCTORS				
PROCTOR NO.	SOIL DESCRIPTION	MAXIMUM DRY UNIT WEIGHT (lb/ft <sup>3</sup> )	OPT. MOIST.	TYPE
08-055-1	Dark Brown Sand	110.4	11.8	MODIFIED (ASTM D-1557) ▼

Respectfully Submitted,  
CAL-TECH TESTING, INC.

Reviewed By:

*Linda Creamer, CEO, DBE*  
Linda M. Creamer  
President - CEO

*Yalib H. [Signature]*  
Date: 6/26/08  
Licensed, Florida No: 57842

ee

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 locations and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

# CERTIFICATE OF OCCUPANCY

## 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 25-5S-17-09382-003

Building permit No. 000027168

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder JOHN NORRIS

Waste:           

Owner of Building JASON HOWELL

Total: 0.00

Location: 144 SE BUNNY CT., LAKE CITY, FL



Date: 10/08/2008

*Tony Dieker*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)

## Notice of Treatment

Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)

Address: 536 SE Baya Dr

City Lake City

Phone 752-1703

Site Location: Subdivision \_\_\_\_\_

Lot # \_\_\_\_\_

Block# \_\_\_\_\_

Permit # 27168

Address 144 SE Bunny Ct, Lake City

### Product used

### Active Ingredient

### % Concentration

☒ Premise Imidacloprid 0.1%

☐ Termidor Fipronil 0.12%

☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%

Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

Main Body

1945

196

100

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line \_\_\_\_\_.

7/22/08  
Date

7:45  
Time

Nat  
Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05



# Notice of Treatment *AD06 14052*

Applicator: **Florida Pest Control & Chemical Co. (www.flapest.com)**

Address: *BAVA Ave*

City: *Lake City* Phone: *52 1703*

Site Location: Subdivision \_\_\_\_\_

Lot # \_\_\_\_\_ Block# \_\_\_\_\_ Permit # *27168*

Address: *14456 BUNNY CT*

<u>Product used</u>	<u>Active Ingredient</u>	<u>% Concentration</u>
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<input type="checkbox"/> Premise	Imidacloprid	0.1%
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<input checked="" type="checkbox"/> Termidor	Fipronil	0.12%
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<input type="checkbox"/> Bora-Care	Disodium Octaborate Tetrahydrate	23.0%
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Type treatment:

☒ Soil

☐ Wood

Area Treated

Square feet

Linear feet

Gallons Applied

*FRONT ENTRY*  
*DRIVEWAY*  
*BACK PATIO*  
*Exterior Perimeter*

*3*  
*3*  
*3*  
*3*

\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.

If this notice is for the final exterior treatment, initial this line *DP*

*10/01/08*  
Date

*1330*  
Time

*JAMES D PARKER*  
Print Technician's Name

Remarks: *F254 "Gunny"*

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

