

DATE 12/23/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027542

APPLICANT DAVID BROWN PHONE 752-3171
ADDRESS 259 NW RHODEN GLEN LAKE CITY FL 32055
OWNER DAVID BROWN PHONE 752-3171
ADDRESS 259 NW RHODEN GLEN LAKE CITY FL 32055
CONTRACTOR SAME AS APPLICANT PHONE
LOCATION OF PROPERTY 90W, TR ON BROWN RD, TR ON BERT, TL RHODEN,
2ND ENTRANCE ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 145000.00
HEATED FLOOR AREA 2100.00 TOTAL AREA 2900.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 4/12 FLOOR SLAB
LAND USE & ZONING A-3 MAX. HEIGHT 19
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 20-3S-16-02188-001 SUBDIVISION
LOT BLOCK PHASE UNIT TOTAL ACRES 55.00

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 08-519 BK RJ
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

IMPACT FEE EXEMPT

Check # or Cash 874

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 725.00 CERTIFICATION FEE \$ 14.50 SURCHARGE FEE \$ 14.50
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 829.00
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.

JOB: 1 SET SUBMITTED FOR OFFICE

Columbia County Building Permit Application

867-4738

For Office Use Only Application # 0810-01 Date Received 10/1 By JW Permit # 27542
Zoning Official B2K Date 07.10.08 Flood Zone X Land Use A-3 Zoning A-3
FEMA Map # N/A Elevation N/A MFE has no relationship River N/A Plans Examiner 12/23/08 Date [Signature]
Comments Impact Fee Exempt
☒ NOC ☐ EH ☐ Deed or PA ☐ Site Plan ☐ State Road Info ☐ Parent Parcel #
☐ Dev Permit # ☐ In Floodway ☐ Letter of Auth. from Contractor ☐ F W Comp. letter
IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____
School _____ = TOTAL 0

Septic Permit No. 08-519 Fax 867-4738
Name Authorized Person Signing Permit David B. Brown Phone 752-3171
Address 259 NW Rhodes Aven., L.C., FL 32055
Owners Name David & Amy Brown Phone 752-3171
911 Address 259 NW Rhodes Aven., L.C. FL 32055
Contractors Name David & Amy Brown Phone 752-3171
Address 259 NW Rhodes Aven., L.C., FL 32055

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address NABIL O. HMEIDI, P.E. & Phillip Santora P.E. - Foundation

Mortgage Lenders Name & Address CASH

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

Property ID Number 20-35-16-02188-001 Estimated Cost of Construction 75K

Subdivision Name None Lot _____ Block _____ Unit _____ Phase _____

Driving Directions 4590 To Brown Rd (RT), Rt on Bert, Left for Rhodes - 2ND Entrance ON R.

Number of Existing Dwellings on Property 1

Construction of C-SFD Total Acreage 55 Lot Size _____

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 19'

Actual Distance of Structure from Property Lines - Front 50 Side 246' Side 40' Rear 180'

Number of Stories 2 Heated Floor Area 2100 Total Floor Area 5000 Roof Pitch 4:12
2900

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

TIME LIMITATIONS OF APPLICATION : An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

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.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: I 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 _____
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this ____ day of _____ 20____.
Personally known _____ or Produced Identification _____

SEAL:

State of Florida Notary Signature (For the Contractor)

IMPACT FEE OCCUPANCY AFFIDAVIT

This affidavit is given for the purpose of obtaining an exemption pursuant to Article VIII, Section 8.01, Columbia County Comprehensive Impact Fee Ordinance No. 2007-40, adopted October 18, 2007, as may be amended.

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

BEFORE ME, the undersigned authority, personally appeared David B. Brown who, after being duly sworn, deposes and says:

1. Except as otherwise stated herein, Affiant has personal knowledge of the facts and matters set forth in this affidavit regarding property identified below as:

- (a) Parcel No.: 20-35-16-02188-001
 (b) Legal description (may be attached): _____

2. Based upon Affiant's personal knowledge, a non-residential building or a residential dwelling has existed on the above referenced property. Said building or dwelling unit was last occupied on September 3, 2008 (date.)

3. This Affidavit is made and given by Affiant with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

Further Affiant sayeth naught.

David B. Brown

Print: David B. Brown

Address: 259 NW Rhoden Glen.
Lake City, FL 32055

SWORN TO AND SUBSCRIBED before me this 1 day of October, 2008, by _____ who is personally known to me or who has produced DRIVERS LICENSE as identification. B650-16265-468-1

Laurie Hodson
 Notary Public, State of Florida

(NOTARY SEAL)

My Commission Expires:



This Instrument Prepared by: Harlan E. Markham,
an Officer of ASSOCIATED LAND TITLE GROUP, INC.,
300 N. MARION STREET, LAKE CITY, FLORIDA 32055,
for Purposes of Title Ins.

File [REDACTED]
Parcel ID # 02188-001 & 02207-001

Warranty Deed

PK 0776 PG 1218

OFFICIAL RECORDS

(The terms "grantor" and "grantee" herein shall be construed to include all genders and singular or plural as the context indicates.)

Made this 25th day of June 1993 BETWEEN
JOHN W. MCALLISTER

whose post office address is: 9917 BAYVIEW AVENUE
JACKSONVILLE, FL 32208

of the County of DUVAL, State of FLORIDA, grantor, and
DAVID B. BROWN AND HIS WIFE, AMY M. BROWN (SS#: [REDACTED] 595-10-8147)

whose post office address is: RT. 12 BOX 476-V
LAKE CITY, FL 32055

of the County of COLUMBIA, State of FL, grantee,

WITNESSETH: That said grantor, for and in consideration of the sum of Ten (\$10.00) 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 Schedule "A" attached hereto and by this reference made a part hereof.

Subject to easements and restrictions of record, if any, which are specifically not extended or reimposed hereby. Subject to 1993 taxes and assessments.

93-07211

FILED ANY INSTRUMENT IN PUBLIC
RECORDS IN COLUMBIA COUNTY, FL.

1993 JUN 25 PM 1:37

RECEIVED
CLERK OF COURTS
COLUMBIA COUNTY, FLORIDA
BY [Signature] C.C.

DOCUMENTARY STAMP
INTANGIBLE TAX \$235.00
P. DEWITT CASON, CLERK OF
COURTS, COLUMBIA COUNTY
[Signature] D.C.

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] Harlan E. Markham

[Signature] John W. McAllister
JOHN W. MCALLISTER

PLEASE PRINT OR TYPE NAME AS IT APPEARS

Lisa D. Franks

LISA D FRANKS

PLEASE PRINT OR TYPE NAME AS IT APPEARS

STATE OF Florida

COUNTY OF Columbia

I HEREBY CERTIFY that on the day of June 25, 1993
JOHN W. MCALLISTER

before me personally appeared

who is personally known to me or who has produced the identification shown below, who is the person described in and who executed the foregoing instrument, and who, after being duly sworn, says that the execution hereof is his/her free act and deed for the uses and purposes herein mentioned and an oath was/was not (mark one only) taken.

SWORN TO AND SUBSCRIBED before me the undersigned Notary Public by my hand and official seal, the day and year last aforesaid.

☐ To me personally known
NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP. APR. 27, 1993
DO NOT SIGN AFTER THIS DATE.

☒ Identified by Driver's License

My Commission Expires:

Commission No.: CC097446

[Signature] Harlan E. Markham
Harlan E. Markham
Notary Public
PLEASE PRINT OR TYPE NAME AS IT APPEARS

EX 0776 PG 1219
Schedule A

COMMENCE at the Northeast Corner of ~~OFFICIAL RECORDS~~ Township 3 South, Range 16 East, Columbia County, Florida, and run N 89 deg 39'27" W along the North line of Section 20, a distance of 1051.12 feet; thence S 0 deg 40'02" E 1122.54 feet to the POINT OF BEGINNING; thence continue S 0 deg 40'02" E 206.61 feet to a point on the South line of the NE 1/4 of the NE 1/4 of said Section 20, said point being also on the North boundary of Lakewood Acres Subdivision, a recorded Subdivision as recorded in Plat Book 4, Page 46 and 46-A of the public records of Columbia County; thence S 89 deg 36'18" E along the South line of said NE 1/4 of NE 1/4 (also the North line of said Lakewood Acres Subdivision) 455.53 feet; thence S 0 deg 16'28" E along the East line of Lot NO. 1 of said Lakewood Acres Subdivision 298.76 feet to a point on the North Right-of-Way line of Rhoden Road; thence N 89 deg 30'37" W along the North Right-of-Way line of said Rhoden Road, also the South line of said Lot No. 1 a distance of 181.00 feet; thence N 89 deg 46'25" W still along said South line of Lot No. 1 a distance of 614.48 feet to a point on the West line of the SE 1/4 of the NE 1/4 of said Section 20, said point being also on the West line of Lakewood Acres Subdivision; thence S 0 deg 40'02" E along said West line 1157.94 feet to a point on the Northerly Right-of-Way line of the Seaboard coast Line Railroad, said point being on the arc of a curve concave to the right, having a radius of 5989.7953 feet and a central angle of 11 deg 34'46"; thence Northwesterly along the arc of said curve, also said Northerly Right-of-Way line 1142.44 feet to the point of tangency of said curve; thence N 60 deg 25'22" W still along said Northerly Right-of-Way line 629.12 feet; thence N 3 deg 01'47" E., 878.72 feet; thence S 89 deg 36'18" E 1929.12 feet to the POINT OF BEGINNING.

Columbia County Property Appraiser

DB Last Updated: 8/5/2008

2008 Proposed Values

Tax Record

Property Card

Interactive GIS Map

Print

Parcel: 20-3S-16-02188-001 HX

Owner & Property Info

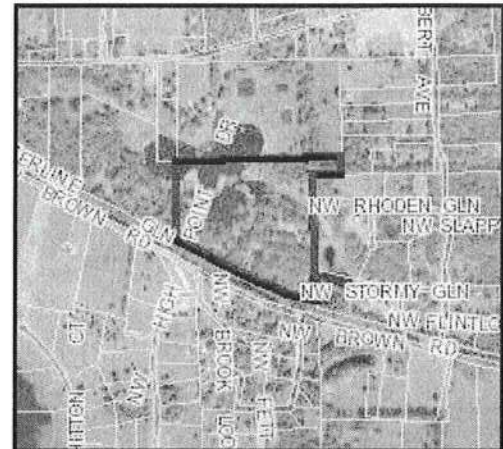
<< Prev

Search Result: 7 of 9

Next >>

Owner's Name	BROWN DAVID B & AMY M		
Site Address	RHODEN		
Mailing Address	259 NW RHODEN GLN LAKE CITY, FL 32055		
Use Desc. (code)	IMPROVED A (005000)		
Neighborhood	20316.00	Tax District	3
UD Codes	MKTA01	Market Area	01
Total Land Area	50.010 ACRES		
Description	COMM NW COR OF SEC, RUN E 2684.79 FT, S 1121.88 FT TO POB, RUN S 878.72 FT TO N R/W SAL RR, SE ALONG RR 1771.56 FT N 1457.97 FT TO NW COR OF SE1/4 OF NE1/4, E 342.02 FT, N 206.61 FT, W 1929.12 FT TO POB ORB 483-239, 484-109, 776-1218		

GIS Aerial



Property & Assessment Values

Mkt Land Value	cnt: (3)	\$19,015.00
Ag Land Value	cnt: (1)	\$6,402.00
Building Value	cnt: (1)	\$50,254.00
XFOB Value	cnt: (5)	\$53,441.00
Total Appraised Value		\$129,112.00

Just Value	\$295,564.00
Class Value	\$129,112.00
Assessed Value	\$129,112.00
Exempt Value	(code: HX) \$50,000.00
Total Taxable Value	\$79,112.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
6/25/1993	776/1218	WD	V	U	35	\$105,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
2	SFR MANUF (000200)	2000	Vinyl Side (31)	1620	1760	\$50,254.00
	Note: All S.F. calculations are based on <u>exterior</u> building dimensions.					

Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
0180	FPLC 1STRY	1997	\$2,300.00	1.000	0 x 0 x 0	(.00)
0294	SHED WOOD/	1996	\$800.00	1.000	28 x 37 x 0	(.00)
0031	BARN,MT AE	2002	\$31,752.00	2646.000	42 x 63 x 0	(.00)
0169	FENCE/WOOD	2002	\$1,000.00	1.000	0 x 0 x 0	(.00)
0260	PAVEMENT-A	2005	\$17,589.00	15990.000	10 x 1599 x 0	(.00)

Land Breakdown

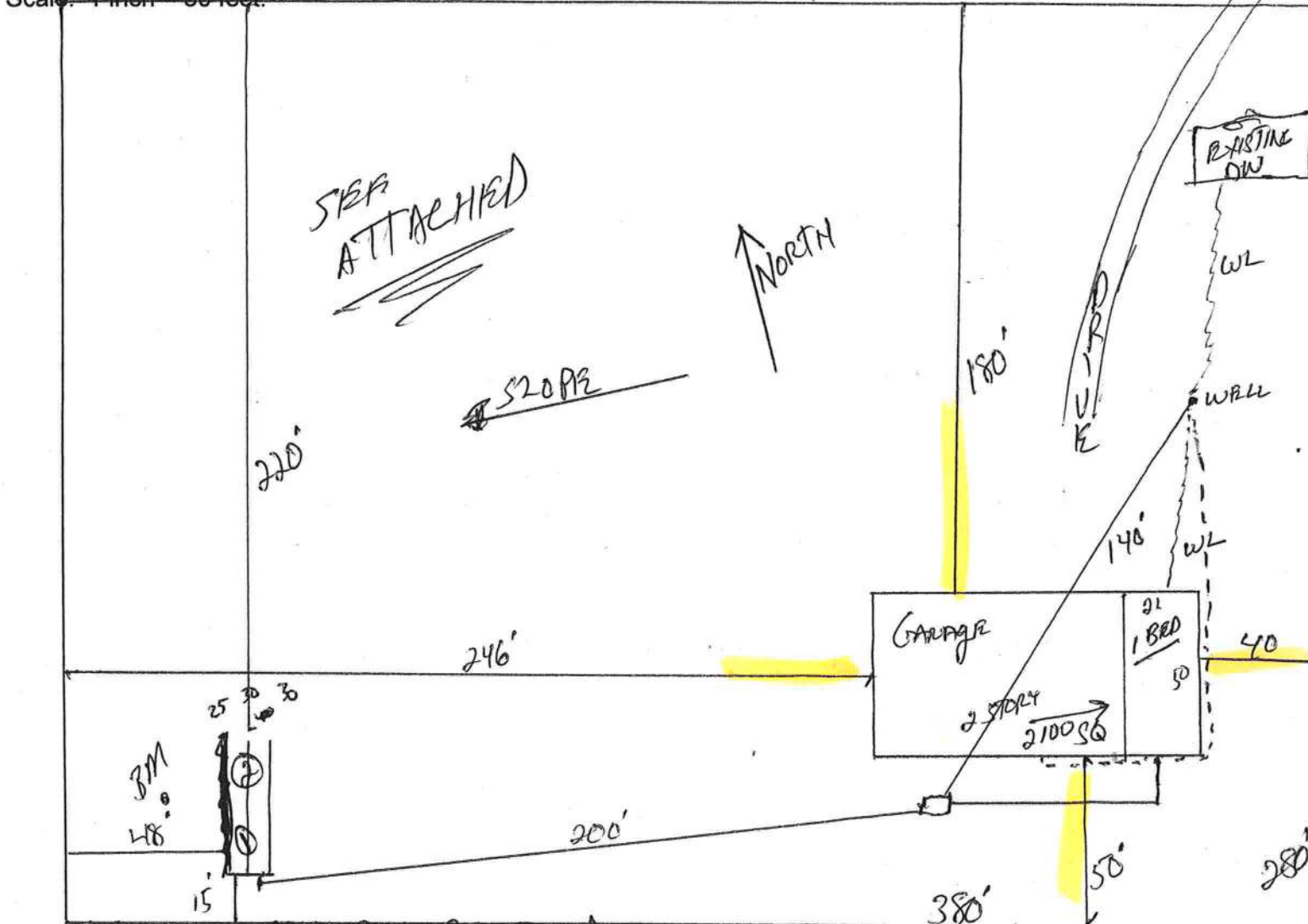
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STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0519

----- PART II - SITEPLAN -----

Scale: 1 inch = 50 feet.



Notes: 243 of 50 ACRES

Site Plan submitted by: Rock D 7-0
Plan Approved ✓ Not Approved _____
By Mr. A. Zant Columbia County Health Department
MASTER CONTRACTOR
Date 7/20/08

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

P.O. Box 1625 • Lake City, FL 32056

4784 Rosselle Street • Jacksonville, FL 32254

2230 Greensboro Highway • Quincy, FL 32351

LABORATORIES

Tel. (386) 755-3633 • Fax (386) 752-5456

Tel. (904) 381-8901 • Fax (904) 381-8902

Tel. (850) 442-3495 • Fax (850) 442-4008

August 12, 2008

Attention: Mr. David B. Brown

259 NW Rhoden Glen
Lake City, Florida 32055

Reference: Building Foundation Conformance Letter
New Brown's Residence
259 NW Rhoden Glen
Lake City, Columbia County, Florida
Cal-Tech Project No. 08-00414-01

Dear Mr. Brown:

This correspondence is to confirm that foundation and site related work at the subject site has been performed in substantial compliance with the project documents, as indicated on a Foundation Plan prepared by Northstar Engineering Services (project No. 92-0715) of Dothan, Alabama dated October 31, 2007.

We appreciate the opportunity to work with you on this project, and look forward to serving as your geotechnical and construction materials testing consultant for future projects. Should you have any questions and/or comments concerning this report, please feel free to contact me.

Sincerely,
Cal-Tech Testing, Inc.

Nabil O. Hmeidi, P.E. 8/12/08
Senior Geotechnical Engineer
Licensed, Florida, No. 57842



0810-01

NOTICE OF COMMENCEMENT

Inst: 200812018464 Date: 10/7/2008 Time: 4:01 PM
JMC, P. DeWitt Cason, Columbia County Page 1 of 1 B:1159 P:2635

Tax Parcel Identification Number 20-35-16-02188-001

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): SINGLE FAMILY DWELLING
a) Street (job) Address: 259 NW Rhoden Glen, Lake City, FL 32055
2. General description of improvements: NEW CONSTRUCTION
3. Owner Information
a) Name and address: David & Amy Brown 259 NW Rhoden Glen Rd Lake City, FL 32055
b) Name and address of fee simple titleholder (if other than owner) _____
c) Interest in property _____
4. Contractor Information
a) Name and address: Same as owner David & Amy Brown 259 NW Rhoden Glen Lake City, FL 32055
b) Telephone No.: Same as owner Fax No. (Opt.) _____
5. Surety Information
a) Name and address: _____
b) Amount of Bond: None
c) Telephone No.: _____ Fax No. (Opt.) None
6. Lender
a) Name and address: None
b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
a) Name and address: _____
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(1)(b) Florida Statutes:
a) Name and address: _____
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. David B. Brown
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
David B. Brown
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 1 day of October, 2008, by:
DAVID B. BROWN as OWNER (type of authority, e.g. officer, trustee, attorney
fact) for Owner (name of party on behalf of whom instrument was executed).

Personally Known ☒ OR Produced Identification ☒ Type DRIVERS LICENSE B650-162-65-4681

Notary Signature Laurie Hodson Notary Stamp or Seal:



11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

David B. Brown
Signature of Natural Person Signing (in line #10 above.)

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **David and Amy Brown**
Address: **Lot: , Sub: , Plat:**
City, State: **Lake City, FL**
Owner: **David and Amy Brown**
Climate Zone: **North**

Builder: **David & Amy Brown**
Permitting Office: **Columbia**
Permit Number: **27542**
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 1 ☐
5. Is this a worst case? Yes ☐
6. Conditioned floor area (ft²) 2269 ft² ☐
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: Description Area

(or Single or Double DEFAULT) 7a(Sngle Default) 192.3 ft² ☐
 - b. SHGC:

(or Clear or Tint DEFAULT) 7b. (Clear) 192.3 ft² ☐
8. Floor types
 - a. Slab-On-Grade Edge Insulation R=0.0, 300.0(p) ft ☐
 - b. Raised Wood, Stem Wall R=0.0, 944.0ft² ☐
 - c. N/A ☐
9. Wall types
 - a. Frame, Steel, Exterior R=19.0, 921.4 ft² ☐
 - b. Frame, Steel, Exterior R=19.0, 521.4 ft² ☐
 - c. Frame, Steel, Exterior R=19.0, 928.0 ft² ☐
 - d. Frame, Steel, Exterior R=19.0, 214.0 ft² ☐
 - e. N/A ☐
10. Ceiling types
 - a. Under Attic R=30.0, 1325.0 ft² ☐
 - b. N/A ☐
 - c. N/A ☐
11. Ducts
 - a. Sup: Con. Ret: Con. AH: Interior Sup. R=6.0, 30.0 ft ☐
 - b. Sup: Con. Ret: Con. AH: Interior Sup. R=6.0, 30.0 ft ☐

12. Cooling systems
 - a. Central Unit/Package Cap: 24.0 kBtu/hr ☐
SEER: 13.00 ☐
 - b. Central Unit/Package Cap: 24.0 kBtu/hr ☐
SEER: 13.00 ☐
 - c. N/A ☐
13. Heating systems
 - a. Electric Heat Pump Cap: 24.0 kBtu/hr ☐
HSPF: 7.70 ☐
 - b. Electric Heat Pump Cap: 24.0 kBtu/hr ☐
HSPF: 7.70 ☐
 - c. N/A ☐
14. Hot water systems
 - a. Electric Resistance Cap: 40.0 gallons ☐
EF: 0.92 ☐
 - 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: 21410

Total base points: 23424

PASS

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

PREPARED BY: Nora L. Terry
DATE: 12/17/08

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: _____

¹ 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: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	2269.0	18.59	7593.0	1.Single, Clear	N	0.0	0.0	30.0	21.73	1.00	651.0
				2.Single, Clear	N	0.0	0.0	20.0	21.73	1.00	434.0
				3.Single, Clear	E	0.0	0.0	9.0	47.92	1.00	431.0
				4.Single, Clear	E	0.0	0.0	13.3	47.92	1.00	638.0
				5.Single, Clear	E	0.0	0.0	20.0	47.92	1.00	958.0
				6.Single, Clear	E	0.0	0.0	30.0	47.92	1.00	1437.0
				7.Single, Clear	W	0.0	0.0	40.0	43.84	1.00	1753.0
				8.Single, Clear	E	0.0	0.0	30.0	47.92	1.00	1437.0
				As-Built Total:		192.3 7739.0					
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	0.0	0.00	0.0	1. Frame, Steel, Exterior	19.0		921.4 2.20 2027.1				
Exterior	2584.8	1.70	4394.2	2. Frame, Steel, Exterior	19.0		521.4 2.20 1147.1				
				3. Frame, Steel, Exterior	19.0		928.0 2.20 2041.6				
				4. Frame, Steel, Exterior	19.0		214.0 2.20 470.8				
Base Total:	2584.8		4394.2	As-Built Total:		2584.8 5686.6					
DOOR TYPES Area X BSPM = Points				Type			Area X SPM = Points				
Adjacent	0.0	0.00	0.0	1.Exterior Wood			54.0 6.10 329.4				
Exterior	96.0	6.10	585.6	2.Exterior Wood			42.0 6.10 256.2				
Base Total:	96.0		585.6	As-Built Total:		96.0 585.6					
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1325.0	1.73	2292.3	1. Under Attic	30.0		1325.0 1.73 X 1.00 2292.3				
Base Total:	1325.0		2292.3	As-Built Total:		1325.0 2292.3					
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	300.0(p)	-37.0	-11100.0	1. Slab-On-Grade Edge Insulation	0.0		300.0(p) -41.20 -12360.0				
Raised	944.0	-3.99	-3766.6	2. Raised Wood, Stem Wall	0.0		944.0 -4.70 -4436.8				
Base Total:			-14866.6	As-Built Total:		1244.0 -16796.8					
INFILTRATION Area X BSPM = Points						Area X SPM = Points					
	2269.0	10.21	23166.5			2269.0 10.21 23166.5					

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT									
Summer Base Points: 23164.9				Summer As-Built Points: 22673.1									
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component (System - Points)	X	Cap Ratio (DM x DSM x AHU)	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	= Cooling Points
23164.9	X	0.3250	=	(sys 1: Central Unit 24000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)									
				22673 0.50 (1.00 x 1.147 x 0.91) 0.260 0.902 2776.6									
				(sys 2: Central Unit 24000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)									
				22673.1		1.00		1.044		0.260		0.902	5553.1

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT									
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points						
.18	2269.0	20.17	8238.0	1.Single, Clear	N	0.0	0.0	30.0	33.22	1.00	996.0		
				2.Single, Clear	N	0.0	0.0	20.0	33.22	1.00	664.0		
				3.Single, Clear	E	0.0	0.0	9.0	26.41	1.00	237.0		
				4.Single, Clear	E	0.0	0.0	13.3	26.41	1.00	352.0		
				5.Single, Clear	E	0.0	0.0	20.0	26.41	1.00	528.0		
				6.Single, Clear	E	0.0	0.0	30.0	26.41	1.00	792.0		
				7.Single, Clear	W	0.0	0.0	40.0	28.84	1.00	1153.0		
				8.Single, Clear	E	0.0	0.0	30.0	26.41	1.00	792.0		
				As-Built Total:				192.3		5514.0			
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points						
Adjacent	0.0	0.00	0.0	1. Frame, Steel, Exterior	19.0		921.4	4.60		4238.4			
Exterior	2584.8	3.70	9563.8	2. Frame, Steel, Exterior	19.0		521.4	4.60		2398.4			
				3. Frame, Steel, Exterior	19.0		928.0	4.60		4268.8			
				4. Frame, Steel, Exterior	19.0		214.0	4.60		984.4			
Base Total:				2584.8		9563.8		As-Built Total:				2584.8	11890.1
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points								
Adjacent	0.0	0.00	0.0	1.Exterior Wood				54.0	12.30		664.2		
Exterior	96.0	12.30	1180.8	2.Exterior Wood				42.0	12.30		516.6		
Base Total:				96.0		1180.8		As-Built Total:				96.0	1180.8
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points						
Under Attic	1325.0	2.05	2716.3	1. Under Attic	30.0		1325.0	2.05 X 1.00		2716.3			
Base Total:				1325.0		2716.3		As-Built Total:				1325.0	2716.3
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points						
Slab	300.0(p)	8.9	2670.0	1. Slab-On-Grade Edge Insulation	0.0		300.0(p)	18.80		5640.0			
Raised	944.0	0.96	906.2	2. Raised Wood, Stem Wall	0.0		944.0	3.50		3304.0			
Base Total:				3576.2		As-Built Total:		1244.0		8944.0			
INFILTRATION Area X BWPM = Points				Area X WPM = Points									
2269.0 -0.59 -1338.7				2269.0 -0.59 -1338.7									

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

BASE			AS-BUILT					
Winter Base Points: 23936.3			Winter As-Built Points: 28906.4					
Total Winter Points	X Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 24000 btuh ,EFF(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0 28906.4 0.500 (1.000 x 1.169 x 0.93) 0.443 0.950 6610.7 (sys 2: Electric Heat Pump 24000 btuh ,EFF(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0 28906.4 0.500 (1.000 x 1.169 x 0.93) 0.443 0.950 6610.7					
23936.3	0.5540	13260.7	28906.4	1.00	1.087	0.443	0.950	13221.4

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Total	Volume	Bedrooms		Ratio	Multiplier
Bedrooms									
1		2635.00		2635.0	40.0	0.92	1	1.00	2635.00
									1.00
									2635.0
				As-Built Total:					2635.0

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling	+	Heating	+	Hot Water	=	Total	Cooling	+	Heating
Points		Points		Points		Points	Points		Points
7529		13261		2635		23424	5553		13221
									2635
									21410

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , Lake City, FL,

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.9

The higher the score, the more efficient the home.

David and Amy Brown, Lot: , Sub: , Plat: , Lake City, FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit/Package	Cap: 24.0 kBtu/hr ___ SEER: 13.00 ___
3. Number of units, if multi-family	1	___	b. Central Unit/Package	Cap: 24.0 kBtu/hr ___ SEER: 13.00 ___
4. Number of Bedrooms	1	___	c. N/A	___
5. Is this a worst case?	Yes	___		
6. Conditioned floor area (ft ²)	2269 ft ²	___	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)			a. Electric Heat Pump	Cap: 24.0 kBtu/hr ___ HSPF: 7.70 ___
a. U-factor:	Description Area		b. Electric Heat Pump	Cap: 24.0 kBtu/hr ___ HSPF: 7.70 ___
(or Single or Double DEFAULT) 7a(Sngle Default)	192.3 ft ²	___	c. N/A	___
b. SHGC:			14. Hot water systems	
(or Clear or Tint DEFAULT) 7b. (Clear)	192.3 ft ²	___	a. Electric Resistance	Cap: 40.0 gallons ___ EF: 0.92 ___
8. Floor types			b. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 300.0(p) ft	___	c. Conservation credits	
b. Raised Wood, Stem Wall	R=0.0, 944.0ft ²	___	(HR-Heat recovery, Solar	
c. N/A		___	DHP-Dedicated heat pump)	
9. Wall types			15. HVAC credits	PT, CF, ___
a. Frame, Steel, Exterior	R=19.0, 921.4 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	
b. Frame, Steel, Exterior	R=19.0, 521.4 ft ²	___	HF-Whole house fan,	
c. Frame, Steel, Exterior	R=19.0, 928.0 ft ²	___	PT-Programmable Thermostat,	
d. Frame, Steel, Exterior	R=19.0, 214.0 ft ²	___	MZ-C-Multizone cooling,	
e. N/A		___	MZ-H-Multizone heating)	
10. Ceiling types				
a. Under Attic	R=30.0, 1325.0 ft ²	___		
b. N/A		___		
c. N/A		___		
11. Ducts				
a. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 30.0 ft	___		
b. Sup: Con. Ret: Con. AH: Interior	Sup. R=6.0, 30.0 ft	___		

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 EnergyStarTM 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 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.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLRCPB v4.5.2)

Residential System Sizing Calculation

Summary

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

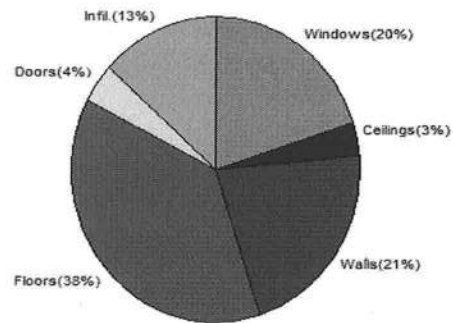
12/17/2008

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
Total heating load calculation	44924	Btuh	Total cooling load calculation	32728	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	106.8	48000	Sensible (SHR = 0.75)	123.5	36000
Heat Pump + Auxiliary(0.0kW)	106.8	48000	Latent	335.3	12000
			Total (Electric Heat Pump)	146.7	48000

WINTER CALCULATIONS

Winter Heating Load (for 2269 sqft)

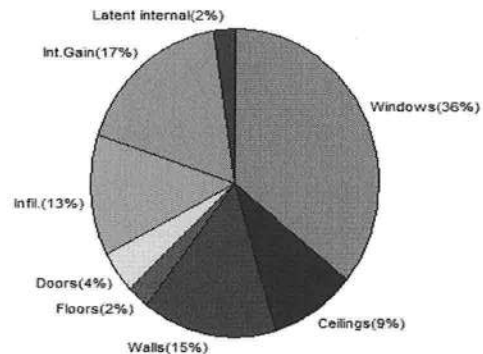
Load component		Load	
Window total	192 sqft	9038	Btuh
Wall total	2585 sqft	9602	Btuh
Door total	96 sqft	1918	Btuh
Ceiling total	1325 sqft	1561	Btuh
Floor total	See detail report	16952	Btuh
Infiltration	144 cfm	5853	Btuh
Duct loss		0	Btuh
Subtotal		44924	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		44924	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2269 sqft)

Load component		Load	
Window total	192 sqft	11732	Btuh
Wall total	2585 sqft	5035	Btuh
Door total	96 sqft	1452	Btuh
Ceiling total	1325 sqft	3038	Btuh
Floor total		756	Btuh
Infiltration	76 cfm	1415	Btuh
Internal gain		5720	Btuh
Duct gain		0	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		29148	Btuh
Latent gain(ducts)		0	Btuh
Latent gain(infiltration)		2779	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		800	Btuh
Total latent gain		3579	Btuh
TOTAL HEAT GAIN		32728	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY:

DATE: 12/17/08

Mora L. Jerry

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

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

12/17/2008

This calculation is for Worst Case. The house has been rotated 180 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
2	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
3	1, Clear, Metal, 1.27	W	9.0	47.0	423 Btuh
4	1, Clear, Metal, 1.27	W	13.3	47.0	626 Btuh
5	1, Clear, Metal, 1.27	W	20.0	47.0	940 Btuh
6	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
7	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
8	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
Window Total			192(sqft)		9038 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Steel - Ext(0.10)	19.0	921	3.7	3423 Btuh
2	Frame - Steel - Ext(0.10)	19.0	521	3.7	1937 Btuh
3	Frame - Steel - Ext(0.10)	19.0	928	3.7	3447 Btuh
4	Frame - Steel - Ext(0.10)	19.0	214	3.7	795 Btuh
Wall Total			2585		9602 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		54	20.0	1079 Btuh
2	Wood - Exterior		42	20.0	839 Btuh
Door Total			96		1918 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Unvented Attic/L/Meta	30.0	1325	1.2	1561 Btuh
Ceiling Total			1325		1561 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	300.0 ft(p)	43.7	13098 Btuh
2	Raised Wood - Stem Wall	0	944.0 sqft	4.1	3854 Btuh
Floor Total			1244		16952 Btuh
Envelope Subtotal:					39071 Btuh
Infiltration	Type	ACH X Volume(cuft) walls(sqft)	CFM=		Load
	Natural	0.38 22816 2585	144.5		5853 Btuh
Ductload	(DLM of 0.000)				0 Btuh
All Zones	Sensible Subtotal All Zones				44924 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

12/17/2008

WHOLE HOUSE TOTALS

	Subtotal Sensible	44924 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	44924 Btuh

EQUIPMENT

1. Electric Heat Pump	Goodman #	24000 Btuh
2. Electric Heat Pump	Goodman #	24000 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

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 180 degrees.

12/17/2008

Component Loads for Zone #1: 2nd Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
7	1, Clear, Metal, 1.27	E	40.0	47.0	1880 Btuh
8	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
	Window Total		70(sqft)		3289 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
2	Frame - Steel - Ext(0.10)	19.0	521	3.7	1937 Btuh
3	Frame - Steel - Ext(0.10)	19.0	928	3.7	3447 Btuh
4	Frame - Steel - Ext(0.10)	19.0	214	3.7	795 Btuh
	Wall Total		1663		6179 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exterior		54	20.0	1079 Btuh
	Door Total		54		1079 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
2	Raised Wood - Stem Wall	0	944.0 sqft	4.1	3854 Btuh
	Floor Total		944		3854 Btuh
Zone Envelope Subtotal:					14401 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=	Load
	Natural	0.38	11328	1663	93.0
					3767 Btuh
Ductload	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)(DLM of 0.000)				0 Btuh
Zone #1	Sensible Zone Subtotal				18168 Btuh

Component Loads for Zone #2: 1st Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	1, Clear, Metal, 1.27	S	30.0	47.0	1410 Btuh
2	1, Clear, Metal, 1.27	S	20.0	47.0	940 Btuh
3	1, Clear, Metal, 1.27	W	9.0	47.0	423 Btuh
4	1, Clear, Metal, 1.27	W	13.3	47.0	626 Btuh
5	1, Clear, Metal, 1.27	W	20.0	47.0	940 Btuh
6	1, Clear, Metal, 1.27	W	30.0	47.0	1410 Btuh
	Window Total		122(sqft)		5748 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Steel - Ext(0.10)	19.0	921	3.7	3423 Btuh
	Wall Total		921		3423 Btuh
Doors	Type		Area X	HTM=	Load
2	Wood - Exterior		42	20.0	839 Btuh
	Door Total		42		839 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

12/17/2008

Ceilings 1	Type/Color/Surface Unvented Attic/L/Meta Ceiling Total	R-Value 30.0	Area X 1325 1325	HTM= 1.2	Load 1561 Btuh 1561Btuh
Floors 1	Type Slab On Grade Floor Total	R-Value 0	Size X 300.0 ft(p) 300	HTM= 43.7	Load 13098 Btuh 13098 Btuh
	Zone Envelope Subtotal:				24670 Btuh
Infiltration	Type Natural	ACH X 0.38	Volume(cuft) walls(sqft) 11488 921	CFM= 51.5	2086 Btuh
Ductload	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond)DLM of 0.000)				0 Btuh
Zone #2	Sensible Zone Subtotal				26756 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	44924 Btuh 0 Btuh 44924 Btuh
--	--	------------------------------------

EQUIPMENT

1. Electric Heat Pump	Goodman #	24000 Btuh
2. Electric Heat Pump	Goodman #	24000 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

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

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

12/17/2008

This calculation is for Worst Case. The house has been rotated 180 degrees.

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	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	30.0	0.0	30.0	29	34	1027	Btuh
2	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	20.0	0.0	20.0	29	34	685	Btuh
3	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	9.0	0.0	9.0	29	70	634	Btuh
4	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	13.3	0.0	13.3	29	70	938	Btuh
5	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	20.0	0.0	20.0	29	70	1408	Btuh
6	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	30.0	0.0	30.0	29	70	2112	Btuh
7	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	40.0	0.0	40.0	29	70	2816	Btuh
8	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	30.0	0.0	30.0	29	70	2112	Btuh
Window Total					192 (sqft)					11732 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)		HTM		Load		
1	Frame - Steel - Ext	19.0/0.10			921.4		1.9		1795 Btuh		
2	Frame - Steel - Ext	19.0/0.10			521.4		1.9		1016 Btuh		
3	Frame - Steel - Ext	19.0/0.10			928.0		1.9		1808 Btuh		
4	Frame - Steel - Ext	19.0/0.10			214.0		1.9		417 Btuh		
Wall Total					2585 (sqft)				5035 Btuh		
Doors	Type				Area (sqft)		HTM		Load		
1	Wood - Exterior				54.0		15.1		816 Btuh		
2	Wood - Exterior				42.0		15.1		635 Btuh		
Door Total					96 (sqft)				1452 Btuh		
Ceilings	Type/Color/Surface	R-Value			Area(sqft)		HTM		Load		
1	Unvented Attic/Light/Metal	30.0			1325.0		2.3		3038 Btuh		
Ceiling Total					1325 (sqft)				3038 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab On Grade	0.0			300 (ft(p))		0.0		0 Btuh		
2	Raised Wood - Stem Wall	0.0			944 (sqft)		0.8		756 Btuh		
Floor Total					1244.0 (sqft)				756 Btuh		
	Envelope Subtotal:									22013 Btuh	
Infiltration	Type	ACH			Volume(cuft)		wall area(sqft)		CFM=		Load
	SensibleNatural	0.20			22816		2585		144.5		1415 Btuh
Internal gain		Occupants			Btuh/occupant		Appliance		Load		
		4			X 230		+		4800		5720 Btuh
	Sensible Envelope Load:									29148 Btuh	
Duct load	(DGM of 0.000)									0 Btuh	
	Sensible Load All Zones									29148 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

12/17/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29148 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29148 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29148 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2779 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3579 Btuh
	TOTAL GAIN	32728 Btuh

EQUIPMENT

1. Central Unit/Pkg	Goodman #	24000 Btuh
2. Central Unit/Pkg	Goodman #	24000 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

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 180 degrees.

12/17/2008

Component Loads for Zone #1: 2nd Floor

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
7	1, Clear, 1.27, B-M, N,N	E	0ft.	0ft.	40.0	0.0	40.0	29	70	2816	Btuh
8	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	30.0	0.0	30.0	29	70	2112	Btuh
Window Total					70 (sqft)					4928	Btuh
Walls	Type		R-Value/U-Value		Area(sqft)		HTM		Load		
2	Frame - Steel - Ext		19.0/0.10		521.4		1.9		1016	Btuh	
3	Frame - Steel - Ext		19.0/0.10		928.0		1.9		1808	Btuh	
4	Frame - Steel - Ext		19.0/0.10		214.0		1.9		417	Btuh	
Wall Total					1663 (sqft)				3240	Btuh	
Doors	Type				Area (sqft)		HTM		Load		
1	Wood - Exterior				54.0		15.1		816	Btuh	
Door Total					54 (sqft)				816	Btuh	
Floors	Type		R-Value		Size		HTM		Load		
2	Raised Wood - Stem Wall		0.0		944 (sqft)		0.8		756	Btuh	
Floor Total					944.0 (sqft)				756	Btuh	
Zone Envelope Subtotal:									9741 Btuh		
Infiltration	Type		ACH		Volume(cuft) wall area(sqft)		CFM=		Load		
	SensibleNatural		0.20		11328 1663		48.9		911	Btuh	
Internal gain			Occupants		Btuh/occupant		Appliance		Load		
			2		X 230 +		2400		2860	Btuh	
Sensible Envelope Load:									13512 Btuh		
Duct load	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond) (DGM of 0.000)							0 Btuh			
Sensible Zone Load									13512 Btuh		

Component Loads for Zone #2: 1st Floor

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	30.0	0.0	30.0	29	34	1027 Btuh	
2	1, Clear, 1.27, B-M, N,N	S	0ft.	0ft.	20.0	0.0	20.0	29	34	685 Btuh	
3	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	9.0	0.0	9.0	29	70	634 Btuh	
4	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	13.3	0.0	13.3	29	70	938 Btuh	
5	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	20.0	0.0	20.0	29	70	1408 Btuh	
6	1, Clear, 1.27, B-M, N,N	W	0ft.	0ft.	30.0	0.0	30.0	29	70	2112 Btuh	
	Window Total				122 (sqft)					6804 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
	1	Frame - Steel - Ext	19.0/0.10			921.4			1.9		1795 Btuh
		Wall Total				921 (sqft)					1795 Btuh
Doors	Type				Area (sqft)			HTM		Load	
	2	Wood - Exterior				42.0			15.1		635 Btuh
		Door Total				42 (sqft)					635 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:

David and Amy Brown

Code Only

Professional Version

Climate: North

Lake City, FL

12/17/2008

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Unvented Attic/Light/Metal	30.0	1325.0	2.3	3038 Btuh
	Ceiling Total		1325 (sqft)		3038 Btuh
Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	300 (ft(p))	0.0	0 Btuh
	Floor Total		300.0 (sqft)		0 Btuh
	Zone Envelope Subtotal:				12272 Btuh
Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=
	SensibleNatural	0.20	11488	921	27.1
Internal gain	Occupants		Btuh/occupant	Appliance	Load
	2	X	230	+	2400
	Sensible Envelope Load:				15637 Btuh
Duct load	Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond) (DGM of 0.000)				0 Btuh
	Sensible Zone Load				15637 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

12/17/2008

SYSTEM GROUPS (BLOCK LOADS)

Cooling Loads For System(s): 1 Serving Zones: 1	Sensible Envelope Load	13512 Btuh
	Window Excursion Not selected.	
	Sensible Duct Load (duct gain multiplier of 0.000)	0 Btuh
	Sensible ventilation	0 Btuh
	Zone Sensible gain	13512 Btuh
	Latent infiltration/ventilation gain	1789 Btuh
	Latent occupant gain	400 Btuh
	Latent duct gain	0 Btuh
	Latent other gain	0 Btuh
	Total block load	15700 Btuh

Cooling Loads For System(s): 2 Serving Zones: 2	Sensible Envelope Load	15637 Btuh
	Window Excursion Not selected.	
	Sensible Duct Load (duct gain multiplier of 0.000)	0 Btuh
	Sensible ventilation	0 Btuh
	Zone Sensible gain	15637 Btuh
	Latent infiltration/ventilation gain	991 Btuh
	Latent occupant gain	400 Btuh
	Latent duct gain	0 Btuh
	Latent other gain	0 Btuh
	Total block load	17027 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

Lake City, FL

12/17/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	29148 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	29148 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	29148 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2779 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (4 people @ 200 Btuh per person)	800 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3579 Btuh
	TOTAL GAIN	32728 Btuh

EQUIPMENT

1. Central Unit/Pkg	Goodman #	24000 Btuh
2. Central Unit/Pkg	Goodman #	24000 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

David and Amy Brown

Project Title:
David and Amy Brown

Code Only
Professional Version
Climate: North

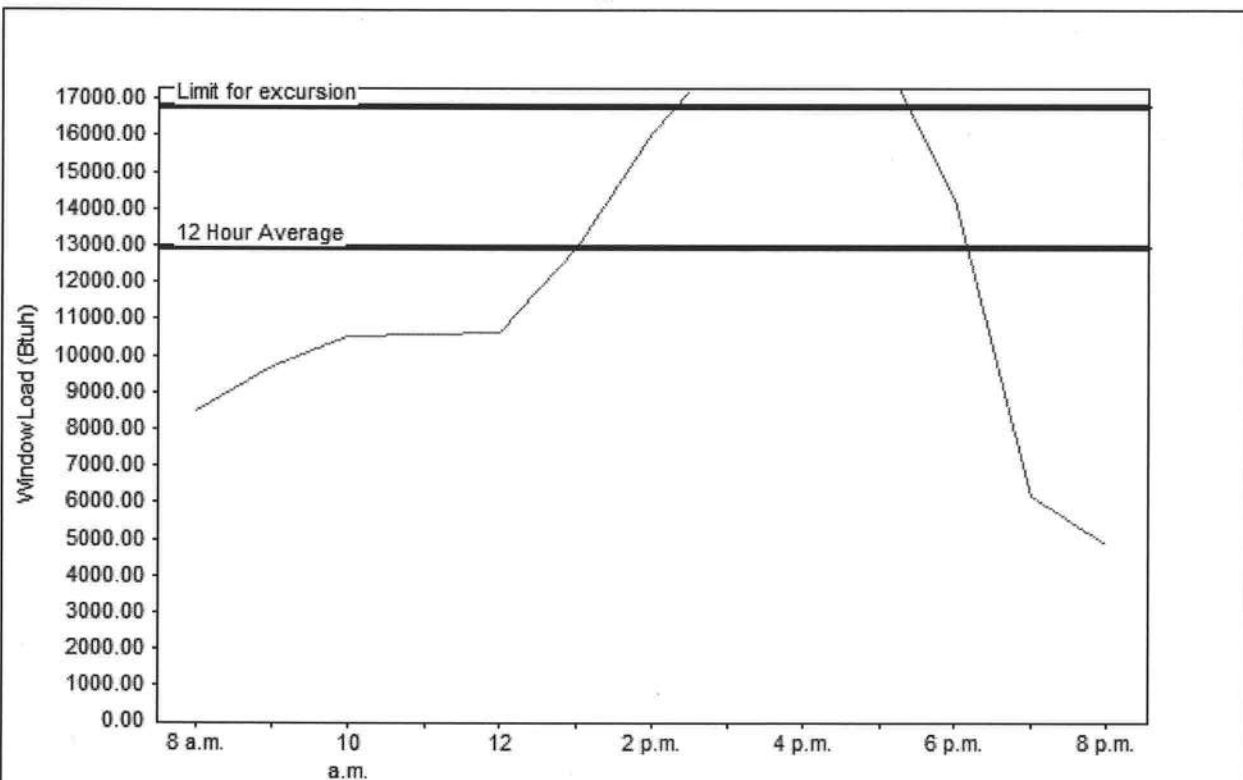
Lake City, FL

12/17/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	12925 Btu
Summer setpoint	75 F	Peak window load for July	19121 Btu
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	16802 Btu
Latitude	29 North	Window excursion (July)	2319 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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: Nora L. Terry
DATE: 12/17/08

EnergyGauge® FLRCPB v4.5.2





Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056

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Tel. (850) 442-3495 • Fax (850) 442-4008

August 12, 2008

Attention: Mr. David B. Brown

259 NW Rhoden Glen
Lake City, Florida 32055


Reference: Building Foundation Conformance Letter
New Brown's Residence
259 NW Rhoden Glen
Lake City, Columbia County, Florida
Cal-Tech Project No. 08-00414-01

Dear Mr. Brown:

This correspondence is to confirm that foundation and site related work at the subject site has been performed in substantial compliance with the project documents, as indicated on a Foundation Plan prepared by Northstar Engineering Services (project No. 92-0715) of Dothan, Alabama dated October 31, 2007.

We appreciate the opportunity to work with you on this project, and look forward to serving as your geotechnical and construction materials testing consultant for future projects. Should you have any questions and/or comments concerning this report, please feel free to contact me.

Sincerely,
Cal-Tech Testing, Inc.


Nabil O. Hmeidi, P.E. 8/12/08
Senior Geotechnical Engineer
Licensed, Florida, No. 57842



COLUMBIA COUNTY FLORIDA DEPARTMENT OF BUILDING AND ZONING

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 20-3S-16-02188-001

Building permit No. 000027542

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder SAME AS APPLICANT

Waste:

Owner of Building DAVID BROWN

Total: 0.00

Location: 259 NW RHODEN GLEN, LAKE CITY, FL

Date: 03/13/2009


Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

