

APPLICANTELAINE KLANDERUDPHONE386.755.3791

ADDRESSPOB 3515LAKE CITYFL32056

OWNERANITA SCOTTPHONE386.754.0172

ADDRESS354SE FOREST TERRACELAKE CITYFL32025

CONTRACTORSTEVEN KLANDERUDPHONE386.755.3791

LOCATION OF PROPERTY41-S TO C-252,TL TO FOREST TERRACE,TL 5TH PLACE ON L.

TYPE DEVELOPMENTADDITON TO SFDESTIMATED COST OF CONSTRUCTION8500.00

HEATED FLOOR AREA170.00TOTAL AREA170.00HEIGHTSTORIES1

FOUNDATIONCONCWALLSFRAMEDROOF PITCH4'12FLOORCONC

LAND USE & ZONINGRSF-2MAX. HEIGHT35

Minimum Set Back Requirments:STREET-FRONT25.00REAR15.00SIDE10.00

NO. EX.D.U.1FLOOD ZONEXDEVELOPMENT PERMIT NO.

PARCEL ID16-4S-17-08382-430SUBDIVISIONCENTURY OAK

LOT6BLOCKCPHASEUNITTOTAL ACRES0.25

CBC053047

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

EXISTING08-0723-EBLKWRN

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: NOC ON FILE. EXMEPT FROM IMPACT FEES. ADDING TO EXISTING DWELLING.

Check # or Cash19635

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Powerdate/app. byFoundationdate/app. byMonolithicdate/app. by

Under slab rough-in plumbingdate/app. bySlabdate/app. bySheathing/Nailingdate/app. by

Framingdate/app. byRough-in plumbing above slab and below wood floordate/app. by

Electrical rough-indate/app. byHeat & Air Ductdate/app. byPeri. beam (Lintel)date/app. by

Permanent powerdate/app. byC.O. Finaldate/app. byCulvertdate/app. by

M/H tie downs, blocking, electricity and plumbingdate/app. byPooldate/app. by

Reconnectiondate/app. byPump poledate/app. byUtility Poledate/app. by

M/H Poledate/app. byTravel Trailerdater/app. byRe-roofdate/app. by

BUILDING PERMIT FEE \$45.00CERTIFICATION FEE \$0.85SURCHARGE FEE \$0.85

MISC. FEES \$0.00ZONING CERT. FEE \$50.00FIRE FEE \$0.00WASTE FEE \$

FLOOD DEVELOPMENT FEE \$FLOOD ZONE FEE \$25.00CULVERT FEE \$TOTAL FEE121.70

INSPECTORS OFFICECLERKS 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.

**Columbia County Building Permit Application**

For Office Use Only Application # 0811-29 Date Received 11/18/08 By GA Permit # 27502  
 Zoning Official BLK Date 24/11/08 Flood Zone X Land Use RES. Lnd Zoning RSF-2  
 FEMA Map # N/A Elevation N/A MFE N/A River N/A Plans Examiner (UR) Date 11/20/08

Comments \_\_\_\_\_  
☒ 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 Exempt - Adding to existing Dwelling

Septic Permit No. 08-0723-E ELaine Klanderud Cell 867-0029 Fax 386-758-9902  
 Name Authorized Person Signing Permit Steve Klanderud Phone 386-755-7791  
 Address 354 SE Forrest Terrace Lake City FL 32025  
 Owners Name Anita Scott Phone 386-754-0170  
 911 Address 354 SE Forrest Terrace Lake City FL 32025  
 Contractors Name Steve Klanderud Phone 386-755-7791  
 Address P.O. Box 3515 LAKE CITY FL  
 Fee Simple Owner Name & Address NA  
 Bonding Co. Name & Address NA  
 Architect/Engineer Name & Address Freeman Design Group Inc. 128 SW Nassau St Lake City FL 32025  
 Mortgage Lenders Name & Address NA

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progress Energy  
 Property ID Number K-45-17-08382-430 Estimated Cost of Construction 10,000  
 Subdivision Name Century Oak S/D Lot 6 Block C Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions South 41 to left on 252 to left on Forest Ter 5th - House on left

Number of Existing Dwellings on Property 1  
 Construction of ~~addition~~ addition SFD Total Acreage .25 Lot Size 105x138  
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height \_\_\_\_\_  
 Actual Distance of Structure from Property Lines - Front 4'8" Side 18' Side 25' Rear 83'  
 Number of Stories 1 Heated Floor Area 170 Total Floor Area 170 Roof Pitch 4/12  
170 addition

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.  
 Page 1 of 2 (Both Pages must be submitted together.)  
SPOKE to Steve  
11/24/08 Revised 1-10-08

## 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**

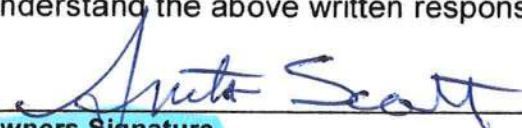
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects 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:**

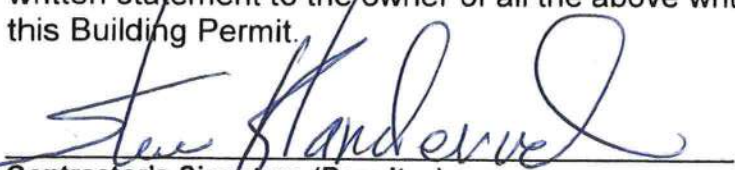
**YOU ARE HEREBY NOTIFIED** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes 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.

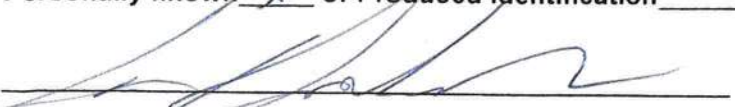
  
Owners Signature

**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.

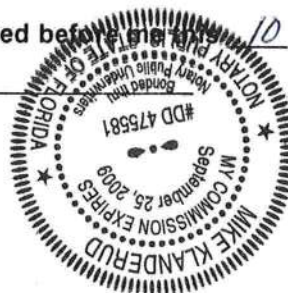
  
Contractor's Signature (Permitee)

Contractor's License Number CB C053047  
Columbia County  
Competency Card Number \_\_\_\_\_

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 10 day of November 2008.  
Personally known X or Produced Identification \_\_\_\_\_

  
State of Florida Notary Signature (For the Contractor)

SEAL:



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

|               |                              |                      |                                   |
|---------------|------------------------------|----------------------|-----------------------------------|
| Project Name: | <b>Addition</b>              | Builder:             | <b>Klanders Construction</b>      |
| Address:      | <b>354 SE Forest Terrace</b> | Permitting Office:   | <b>County Building and Zoning</b> |
| City, State:  | <b>Lake City, FL 32025-</b>  | Permit Number:       | <b>27502</b>                      |
| Owner:        |                              | Jurisdiction Number: | <b>221000</b>                     |
| Climate Zone: | <b>North</b>                 |                      |                                   |

|                                                                                 |                     |                                        |                   |
|---------------------------------------------------------------------------------|---------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | Addition            | 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 (ft²)                                                 | 1798 ft²            |                                        |                   |
| 7. Glass type <sup>1</sup> and area: (Label reqd. by 13-104.4.5 if not default) |                     | 13. Heating systems                    |                   |
| a. U-factor:                                                                    | Description Area    | a. Electric Heat Pump                  | Cap: 32.0 kBtu/hr |
| (or Single or Double DEFAULT) 7a. (Dble Default) 120.0 ft²                      |                     |                                        | HSPF: 7.70        |
| b. SHGC:                                                                        |                     | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT) 7b. (Clear) 120.0 ft²                                |                     | c. N/A                                 |                   |
| 8. Floor types                                                                  |                     | 14. Hot water systems                  |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 182.0(p) ft  | a. Electric Resistance                 | Cap: 50.0 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, 1534.0 ft²  | (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, 1798.0 ft²  | MZ-C-Multizone cooling,                |                   |
| b. N/A                                                                          |                     | MZ-H-Multizone heating)                |                   |
| c. N/A                                                                          |                     |                                        |                   |
| 11. Ducts                                                                       |                     |                                        |                   |
| a. Sup: Con. Ret: Con. AH: Interior                                             | Sup. R=6.0, 35.0 ft |                                        |                   |
| b. N/A                                                                          |                     |                                        |                   |

Glass/Floor Area: 0.07

Total as-built points: 19387

Total base points: 25876

**PASS**

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

PREPARED BY: Debbie & Mote

DATE: 11-4-08

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.

## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER 27502 CONTRACTOR \_\_\_\_\_ PHONE \_\_\_\_\_

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

|                                   |                                                                                                                             |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>ELECTRICAL</b>                 | Print Name <u>LYNDON RAINBOLT</u> Signature <u>[Signature]</u><br>License #: <u>EC13001835</u> Phone #: <u>386-867-1004</u> |
| <b>MECHANICAL/<br/>A/C</b>        | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |
| <b>PLUMBING/<br/>GAS</b>          | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |
| <b>ROOFING</b>                    | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |
| <b>SHEET METAL</b>                | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |
| <b>FIRE SYSTEM/<br/>SPRINKLER</b> | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |
| <b>SOLAR</b>                      | Print Name _____ Signature _____<br>License #: _____ Phone #: _____                                                         |

| Specialty License  | License Number | Sub-Contractors Printed Name | Sub-Contractors Signature |
|--------------------|----------------|------------------------------|---------------------------|
| MASON              |                |                              |                           |
| CONCRETE FINISHER  |                |                              |                           |
| FRAMING            |                |                              |                           |
| INSULATION         |                |                              |                           |
| STUCCO             |                |                              |                           |
| DRYWALL            |                |                              |                           |
| PLASTER            |                |                              |                           |
| CABINET INSTALLER  |                |                              |                           |
| PAINTING           |                |                              |                           |
| ACOUSTICAL CEILING |                |                              |                           |
| GLASS              |                |                              |                           |
| CERAMIC TILE       |                |                              |                           |
| FLOOR COVERING     |                |                              |                           |
| ALUM/VINYL SIDING  |                |                              |                           |
| GARAGE DOOR        |                |                              |                           |
| METAL BLDG ERECTOR |                |                              |                           |

**F. S. 440.103 Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



**KLANDERS**  
Construction

CB C053047

*2448  
25/5W  
3-16-10*

COMMERCIAL · RESIDENTIAL

5/1/09

Columbia County Building Department

In Reference to permit #27502  
Anita Scott residence  
354 SE Forest Terrace

Bath addition

Because of the construction climate this project was delayed. No further work has been done. Please grant me a 90 day extension on the project.

Steve Klanderud

*Letter Approved through  
Marilyn's letter  
J. Hobbs*



**KLANDERS**  
Construction

CB C053047

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COMMERCIAL · RESIDENTIAL

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8/1/09

Columbia County Building Department

In Reference to permit #27502

Anita Scott residence

354 SE Forest Terrace

Bath addition

Because of the construction climate this project was delayed. No further work has been done. Please grant me a 90 day extension on the project.

Steve Klanderud



**KLANDERS**  
Construction

CB C053047

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COMMERCIAL · RESIDENTIAL

---

11/1/09

Columbia County Building Department

In Reference to permit #27502

Anita Scott residence

354 SE Forest Terrace

Bath addition

Because of the construction climate this project was delayed. No further work has been done. Please grant me a 90 day extension on the project.

Steve Klanderud

P.O. Box 3515 · Lake City, Florida 32056

(386) 755-3791 · Fax (386) 758-9902



**KLANDERS**  
Construction

CB C053047

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COMMERCIAL · RESIDENTIAL

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2/01/10

Columbia County Building Department

In Reference to permit #27502

Anita Scott residence

354 SE Forest Terrace

Bath addition

Because of the construction climate this project was delayed. No further work has been done. Please grant me a 90 day extension on the project.

Steve Klanderud

# NOTICE OF COMMENCEMENT

Inst: 200812020424 Date: 11/12/2008 Time: 12:57 PM  
 29 DC, P. DeWitt Cason, Columbia County Page 1 of 1 B: 1161 P: 2644

Tax Parcel Identification Number \_\_\_\_\_

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

1. Description of property (legal description): LOT 6 BLOCK C CENTURIOAK  
 a) Street (job) Address: 354 SE Forrest Ter Lake City FL
2. General description of improvements: 170 Sq Ft addition
3. Owner Information  
 a) Name and address: Anita Scott / 354 SE Forrest Ter Lake City FL  
 b) Name and address of fee simple titleholder (if other than owner) \_\_\_\_\_  
 c) Interest in property: OWNER
4. Contractor Information  
 a) Name and address: Steve Klanderud / P.O. Box 3515 Lake City FL  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
5. Surety Information  
 a) Name and address: NA  
 b) Amount of Bond: \_\_\_\_\_  
 c) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
6. Lender  
 a) Name and address: NA  
 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: Anita Scott / 354 SE Forrest Ter Lake City FL  
 b) Telephone No.: 386-754-0173 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: NA  
 b) Telephone No.: \_\_\_\_\_ Fax No. (Opt.): \_\_\_\_\_
9. Expiration date of Notice of Commencement (the expiration date is one year from the date of recording unless a different date is specified): \_\_\_\_\_

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

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

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

The foregoing instrument was acknowledged before me, a Florida Notary, this 10 day of November, 2008, by:  
Anita Scott as OWNER (type of authority, e.g. officer, trustee, attorney  
 fact) for \_\_\_\_\_ (name of party on behalf of whom instrument was executed).

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

Notary Signature \_\_\_\_\_ 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 the facts stated in it are true to the best of my knowledge and belief.

—AND—  
Anita Scott  
 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: | <b>Addition</b>              | Builder:             | <b>Klanders Construction</b>      |
| Address:      | <b>354 SE Forest Terrace</b> | Permitting Office:   | <b>County Building and Zoning</b> |
| City, State:  | <b>Lake City, FL 32025-</b>  | Permit Number:       | <b>27502</b>                      |
| Owner:        |                              | Jurisdiction Number: | <b>221000</b>                     |
| Climate Zone: | <b>North</b>                 |                      |                                   |

|                                                                                 |                                          |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | Addition                                 | 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> )                                    | 1798 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) 120.0 ft <sup>2</sup> |                                        | HSPF: 7.70        |
| b. SHGC:                                                                        |                                          | b. N/A                                 |                   |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 120.0 ft <sup>2</sup>        | c. N/A                                 |                   |
| 8. Floor types                                                                  |                                          |                                        |                   |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 182.0(p) ft                       | 14. Hot water systems                  |                   |
| b. N/A                                                                          |                                          | a. Electric Resistance                 | Cap: 50.0 gallons |
| c. N/A                                                                          |                                          |                                        | EF: 0.95          |
| 9. Wall types                                                                   |                                          | b. N/A                                 |                   |
| a. Frame, Wood, Exterior                                                        | R=13.0, 1534.0 ft <sup>2</sup>           | c. Conservation credits                |                   |
| b. N/A                                                                          |                                          | (HR-Heat recovery, Solar               |                   |
| c. N/A                                                                          |                                          | DHP-Dedicated heat pump)               |                   |
| d. N/A                                                                          |                                          | 15. HVAC credits                       | PT, CF,           |
| e. N/A                                                                          |                                          | (CF-Ceiling fan, CV-Cross ventilation, |                   |
| 10. Ceiling types                                                               |                                          | HF-Whole house fan,                    |                   |
| a. Under Attic                                                                  | R=30.0, 1798.0 ft <sup>2</sup>           | PT-Programmable Thermostat,            |                   |
| b. N/A                                                                          |                                          | MZ-C-Multizone cooling,                |                   |
| c. N/A                                                                          |                                          | MZ-H-Multizone heating)                |                   |
| 11. Ducts                                                                       |                                          |                                        |                   |
| a. Sup: Con. Ret: Con. AH: Interior                                             | Sup. R=6.0, 35.0 ft                      |                                        |                   |
| b. N/A                                                                          |                                          |                                        |                   |

Glass/Floor Area: 0.07

Total as-built points: 19387

Total base points: 25876

## PASS

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

PREPARED BY: Debbie A. Motes

DATE: 11-4-08

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: 354 SE Forest Terrace, Lake City, FL, 32025-

PERMIT #:

| BASE                 |   |             |   | AS-BUILT             |                 |                                      |                           |                 |               |
|----------------------|---|-------------|---|----------------------|-----------------|--------------------------------------|---------------------------|-----------------|---------------|
| <b>GLASS TYPES</b>   |   |             |   |                      |                 |                                      |                           |                 |               |
| .18                  | X | Conditioned | X | BSPM = Points        |                 |                                      |                           |                 |               |
|                      |   | Floor Area  |   |                      | Type/SC         | Overhang<br>Ornt Len Hgt             | Area X SPM X SOF = Points |                 |               |
| .18                  |   | 1798.0      |   | 18.59                | 6016.0          | 1.Double, Clear N 1.5 6.0            | 45.0 19.20 0.94           | 811.0           |               |
|                      |   |             |   |                      |                 | 2.Double, Clear S 1.5 6.0            | 45.0 35.87 0.86           | 1381.0          |               |
|                      |   |             |   |                      |                 | 3.Double, Clear E 1.5 6.0            | 30.0 42.06 0.91           | 1151.0          |               |
|                      |   |             |   |                      | As-Built Total: |                                      | 120.0                     |                 | 3343.0        |
| <b>WALL TYPES</b>    |   |             |   | Area X BSPM = Points | Type            | R-Value                              | Area X SPM = Points       |                 |               |
| Adjacent             |   | 0.0         |   | 0.00                 | 0.0             | 1. Frame, Wood, Exterior 13.0        | 1534.0 1.50               | 2301.0          |               |
| Exterior             |   | 1534.0      |   | 1.70                 | 2607.8          |                                      |                           |                 |               |
|                      |   |             |   | Base Total:          | 1534.0          |                                      | 2607.8                    | As-Built Total: | 1534.0 2301.0 |
| <b>DOOR TYPES</b>    |   |             |   | Area X BSPM = Points | Type            |                                      | Area X SPM = Points       |                 |               |
| Adjacent             |   | 0.0         |   | 0.00                 | 0.0             | 1.Exterior Insulated                 | 144.0 4.10                | 590.4           |               |
| Exterior             |   | 144.0       |   | 6.10                 | 878.4           |                                      |                           |                 |               |
|                      |   |             |   | Base Total:          | 144.0           |                                      | 878.4                     | As-Built Total: | 144.0 590.4   |
| <b>CEILING TYPES</b> |   |             |   | Area X BSPM = Points | Type            | R-Value                              | Area X SPM X SCM = Points |                 |               |
| Under Attic          |   | 1798.0      |   | 1.73                 | 3110.5          | 1. Under Attic 30.0                  | 1798.0 1.73 X 1.00        | 3110.5          |               |
|                      |   |             |   | Base Total:          | 1798.0          |                                      | 3110.5                    | As-Built Total: | 1798.0 3110.5 |
| <b>FLOOR TYPES</b>   |   |             |   | Area X BSPM = Points | Type            | R-Value                              | Area X SPM = Points       |                 |               |
| Slab                 |   | 182.0(p)    |   | -37.0                | -6734.0         | 1. Slab-On-Grade Edge Insulation 0.0 | 182.0(p) -41.20           | -7498.4         |               |
| Raised               |   | 0.0         |   | 0.00                 | 0.0             |                                      |                           |                 |               |
|                      |   |             |   | Base Total:          | -6734.0         |                                      | 182.0                     | As-Built Total: | -7498.4       |
| <b>INFILTRATION</b>  |   |             |   | Area X BSPM = Points |                 |                                      | Area X SPM = Points       |                 |               |
|                      |   | 1798.0      |   | 10.21                | 18357.6         |                                      | 1798.0 10.21              | 18357.6         |               |

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 354 SE Forest Terrace, Lake City, FL, 32025-

PERMIT #:

| BASE                               |                           |   |                   | AS-BUILT                                                                                      |                                       |                                             |                           |                           |   |                   |
|------------------------------------|---------------------------|---|-------------------|-----------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------|---------------------------|---------------------------|---|-------------------|
| <b>Summer Base Points: 24236.3</b> |                           |   |                   | <b>Summer As-Built Points: 20204.1</b>                                                        |                                       |                                             |                           |                           |   |                   |
| Total Summer<br>Points             | X<br>System<br>Multiplier | = | Cooling<br>Points | Total<br>Component<br>(System - Points)                                                       | X<br>Cap<br>Ratio<br>(DM x DSM x AHU) | X<br>Duct<br>Multiplier<br>(DM x DSM x AHU) | X<br>System<br>Multiplier | X<br>Credit<br>Multiplier | = | Cooling<br>Points |
| 24236.3                            | 0.3250                    |   | 7876.8            | (sys 1: Central Unit 32000btuh ,SEER/EFF(13.0) Ducts:Con(S),Con(R),Int(AH),R6.0(INS)<br>20204 | 1.00                                  | (1.00 x 1.147 x 0.91)                       | 0.260                     | 0.902                     |   | 4948.4            |
|                                    |                           |   |                   | <b>20204.1</b>                                                                                | <b>1.00</b>                           | <b>1.044</b>                                | <b>0.260</b>              | <b>0.902</b>              |   | <b>4948.4</b>     |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 354 SE Forest Terrace, Lake City, FL, 32025-

PERMIT #:

| BASE                                                                  | AS-BUILT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |               |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|-------------|----------------------|----------------------------------|-------|----------|--------------------|----------|--------------------|-----------------|------------------------|-----|---------------|------------------------|-------|---------------|--------|-----------------|---|-----|-----|------|-------|------|-------|-----------------|---|-----|-----|------|-------|------|-------|------------------------|--|--|--|--------------|--|--|---------------|
| <b>GLASS TYPES</b><br>.18 X Conditioned X BWPM = Points<br>Floor Area | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Type/SC</th> <th colspan="3">Overhang</th> <th rowspan="2">Area</th> <th rowspan="2">X WPM</th> <th rowspan="2">X WOF</th> <th rowspan="2">= Points</th> </tr> <tr> <th>Ornt</th> <th>Len</th> <th>Hgt</th> </tr> </thead> <tbody> <tr> <td>1.Double, Clear</td> <td>N</td> <td>1.5</td> <td>6.0</td> <td>45.0</td> <td>24.58</td> <td>1.00</td> <td>1108.0</td> </tr> <tr> <td>2.Double, Clear</td> <td>S</td> <td>1.5</td> <td>6.0</td> <td>45.0</td> <td>13.30</td> <td>1.12</td> <td>668.0</td> </tr> <tr> <td>3.Double, Clear</td> <td>E</td> <td>1.5</td> <td>6.0</td> <td>30.0</td> <td>18.79</td> <td>1.04</td> <td>583.0</td> </tr> <tr> <td colspan="4"><b>As-Built Total:</b></td> <td><b>120.0</b></td> <td></td> <td></td> <td><b>2359.0</b></td> </tr> </tbody> </table> | Type/SC       | Overhang      |               |             | Area                 | X WPM                            | X WOF | = Points | Ornt               | Len      | Hgt                | 1.Double, Clear | N                      | 1.5 | 6.0           | 45.0                   | 24.58 | 1.00          | 1108.0 | 2.Double, Clear | S | 1.5 | 6.0 | 45.0 | 13.30 | 1.12 | 668.0 | 3.Double, Clear | E | 1.5 | 6.0 | 30.0 | 18.79 | 1.04 | 583.0 | <b>As-Built Total:</b> |  |  |  | <b>120.0</b> |  |  | <b>2359.0</b> |
| Type/SC                                                               | Overhang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |               | Area          | X WPM       |                      |                                  |       |          | X WOF              | = Points |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
|                                                                       | Ornt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Len           | Hgt           |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1.Double, Clear                                                       | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.5           | 6.0           | 45.0          | 24.58       | 1.00                 | 1108.0                           |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 2.Double, Clear                                                       | S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.5           | 6.0           | 45.0          | 13.30       | 1.12                 | 668.0                            |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 3.Double, Clear                                                       | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.5           | 6.0           | 30.0          | 18.79       | 1.04                 | 583.0                            |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>As-Built Total:</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |               | <b>120.0</b>  |             |                      | <b>2359.0</b>                    |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>WALL TYPES</b> Area X BWPM = Points                                | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>R-Value</th> <th>Area</th> <th>X WPM</th> <th>= Points</th> </tr> </thead> <tbody> <tr> <td>1. Frame, Wood, Exterior</td> <td>13.0</td> <td>1534.0</td> <td>3.40</td> <td>5215.6</td> </tr> <tr> <td colspan="2"><b>Base Total:</b></td> <td><b>1534.0</b></td> <td></td> <td><b>5675.8</b></td> </tr> <tr> <td colspan="2"><b>As-Built Total:</b></td> <td><b>1534.0</b></td> <td></td> <td><b>5215.6</b></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                              | Type          | R-Value       | Area          | X WPM       | = Points             | 1. Frame, Wood, Exterior         | 13.0  | 1534.0   | 3.40               | 5215.6   | <b>Base Total:</b> |                 | <b>1534.0</b>          |     | <b>5675.8</b> | <b>As-Built Total:</b> |       | <b>1534.0</b> |        | <b>5215.6</b>   |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| Type                                                                  | R-Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area          | X WPM         | = Points      |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1. Frame, Wood, Exterior                                              | 13.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1534.0        | 3.40          | 5215.6        |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>Base Total:</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1534.0</b> |               | <b>5675.8</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>As-Built Total:</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1534.0</b> |               | <b>5215.6</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>DOOR TYPES</b> Area X BWPM = Points                                | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>Area</th> <th>X WPM</th> <th>= Points</th> </tr> </thead> <tbody> <tr> <td>1.Exterior Insulated</td> <td>144.0</td> <td>8.40</td> <td>1209.6</td> </tr> <tr> <td colspan="2"><b>Base Total:</b></td> <td><b>144.0</b></td> <td><b>1771.2</b></td> </tr> <tr> <td colspan="2"><b>As-Built Total:</b></td> <td><b>144.0</b></td> <td><b>1209.6</b></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                        | Type          | Area          | X WPM         | = Points    | 1.Exterior Insulated | 144.0                            | 8.40  | 1209.6   | <b>Base Total:</b> |          | <b>144.0</b>       | <b>1771.2</b>   | <b>As-Built Total:</b> |     | <b>144.0</b>  | <b>1209.6</b>          |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| Type                                                                  | Area                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | X WPM         | = Points      |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1.Exterior Insulated                                                  | 144.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8.40          | 1209.6        |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>Base Total:</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>144.0</b>  | <b>1771.2</b> |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>As-Built Total:</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>144.0</b>  | <b>1209.6</b> |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>CEILING TYPES</b> Area X BWPM = Points                             | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type</th> <th>R-Value</th> <th>Area</th> <th>X WPM X WCM</th> <th>= Points</th> </tr> </thead> <tbody> <tr> <td>1. Under Attic</td> <td>30.0</td> <td>1798.0</td> <td>2.05 X 1.00</td> <td>3685.9</td> </tr> <tr> <td colspan="2"><b>Base Total:</b></td> <td><b>1798.0</b></td> <td></td> <td><b>3685.9</b></td> </tr> <tr> <td colspan="2"><b>As-Built Total:</b></td> <td><b>1798.0</b></td> <td></td> <td><b>3685.9</b></td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                           | Type          | R-Value       | Area          | X WPM X WCM | = Points             | 1. Under Attic                   | 30.0  | 1798.0   | 2.05 X 1.00        | 3685.9   | <b>Base Total:</b> |                 | <b>1798.0</b>          |     | <b>3685.9</b> | <b>As-Built Total:</b> |       | <b>1798.0</b> |        | <b>3685.9</b>   |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| Type                                                                  | R-Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area          | X WPM X WCM   | = Points      |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1. Under Attic                                                        | 30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1798.0        | 2.05 X 1.00   | 3685.9        |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>Base Total:</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1798.0</b> |               | <b>3685.9</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>As-Built Total:</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>1798.0</b> |               | <b>3685.9</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
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| Type                                                                  | R-Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area          | X WPM         | = Points      |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1. Slab-On-Grade Edge Insulation                                      | 0.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 182.0(p)      | 18.80         | 3421.6        |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>Base Total:</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>182.0</b>  |               | <b>1619.8</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>As-Built Total:</b>                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>182.0</b>  |               | <b>3421.6</b> |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| <b>INFILTRATION</b> Area X BWPM = Points                              | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Area</th> <th>X WPM</th> <th>= Points</th> </tr> </thead> <tbody> <tr> <td>1798.0</td> <td>-0.59</td> <td>-1060.8</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Area          | X WPM         | = Points      | 1798.0      | -0.59                | -1060.8                          |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| Area                                                                  | X WPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | = Points      |               |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |
| 1798.0                                                                | -0.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -1060.8       |               |               |             |                      |                                  |       |          |                    |          |                    |                 |                        |     |               |                        |       |               |        |                 |   |     |     |      |       |      |       |                 |   |     |     |      |       |      |       |                        |  |  |  |              |  |  |               |

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: 354 SE Forest Terrace, Lake City, FL, 32025-

PERMIT #:

| BASE                |   |                   |                  | AS-BUILT                                                                                                                                    |             |                                    |                     |                     |                  |  |
|---------------------|---|-------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------|---------------------|---------------------|------------------|--|
| Winter Base Points: |   | 18219.9           |                  | Winter As-Built Points:                                                                                                                     |             |                                    | 14830.9             |                     |                  |  |
| Total Winter Points | X | System 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 |  |
| 18219.9             |   | 0.5540            | 10093.8          | (sys 1: Electric Heat Pump 32000 btuh ,EFF(7.7) Ducts:Con(S),Con(R),Int(AH),R6.0<br>14830.9 1.000 (1.000 x 1.169 x 0.93) 0.443 0.950 6783.5 |             |                                    |                     |                     |                  |  |
|                     |   |                   |                  | 14830.9                                                                                                                                     | 1.00        | 1.087                              | 0.443               | 0.950               | 6783.5           |  |

## Residential Whole Building Performance Method A - Details

PERMIT #:

| CODE COMPLIANCE STATUS |   |                |   |                  |   |              |  |
|------------------------|---|----------------|---|------------------|---|--------------|--|
| BASE                   |   |                |   | AS-BUILT         |   |              |  |
| Cooling Points         | + | Heating Points | + | Hot Water Points | = | Total Points |  |
| 7877                   |   | 10094          |   | 7905             |   | 25876        |  |

# PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: 354 SE Forest Terrace, Lake City, FL, 32025-

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.<br>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.<br>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 cir 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.<br>Common ceiling & floors R-11.                                                                                                                                |       |

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

**ESTIMATED ENERGY PERFORMANCE SCORE\* = 88.7**

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

, 354 SE Forest Terrace, Lake City, FL, 32025-

|                                                                                 |                                          |     |                                        |                   |
|---------------------------------------------------------------------------------|------------------------------------------|-----|----------------------------------------|-------------------|
| 1. New construction or existing                                                 | Addition                                 | ___ | 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> )                                    | 1798 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                         |     | 13. Heating systems                    |                   |
| (or Single or Double DEFAULT)                                                   | 7a. (Dble Default) 120.0 ft <sup>2</sup> | ___ | a. Electric Heat Pump                  | Cap: 32.0 kBtu/hr |
| b. SHGC:                                                                        |                                          | ___ |                                        | HSPF: 7.70        |
| (or Clear or Tint DEFAULT)                                                      | 7b. (Clear) 120.0 ft <sup>2</sup>        | ___ | b. N/A                                 | ___               |
| 8. Floor types                                                                  |                                          | ___ | c. N/A                                 | ___               |
| a. Slab-On-Grade Edge Insulation                                                | R=0.0, 182.0(p) ft                       | ___ |                                        | ___               |
| b. N/A                                                                          | ___                                      | ___ | 14. Hot water systems                  |                   |
| c. N/A                                                                          | ___                                      | ___ | a. Electric Resistance                 | Cap: 50.0 gallons |
| 9. Wall types                                                                   |                                          | ___ |                                        | EF: 0.95          |
| a. Frame, Wood, Exterior                                                        | R=13.0, 1534.0 ft <sup>2</sup>           | ___ | b. N/A                                 | ___               |
| b. N/A                                                                          | ___                                      | ___ | c. Conservation credits                | ___               |
| c. N/A                                                                          | ___                                      | ___ | (HR-Heat recovery, Solar               | ___               |
| d. N/A                                                                          | ___                                      | ___ | DHP-Dedicated heat pump)               | ___               |
| e. N/A                                                                          | ___                                      | ___ | 15. HVAC credits                       | PT, CF, ___       |
| 10. Ceiling types                                                               |                                          | ___ | (CF-Ceiling fan, CV-Cross ventilation, | ___               |
| a. Under Attic                                                                  | R=30.0, 1798.0 ft <sup>2</sup>           | ___ | HF-Whole house fan,                    | ___               |
| b. N/A                                                                          | ___                                      | ___ | PT-Programmable Thermostat,            | ___               |
| c. N/A                                                                          | ___                                      | ___ | MZ-C-Multizone cooling,                | ___               |
| 11. Ducts                                                                       |                                          | ___ | MZ-H-Multizone heating)                | ___               |
| a. Sup: Con. Ret: Con. AH: Interior                                             | Sup. R=6.0, 35.0 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™ 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>                  | <b>Title:</b> Addition                           |                               | <b>Family Type:</b> Single    |                                        | <b>Address Type:</b> Street Address         |               |                             |       |
|                                 | <b>Owner:</b> (blank)                            |                               | <b>New/Existing:</b> Addition |                                        | <b>Lot #:</b> N/A                           |               |                             |       |
|                                 | <b># of Units:</b> 1                             |                               | <b>Bedrooms:</b> 3            |                                        | <b>Subdivision:</b> N/A                     |               |                             |       |
|                                 | <b>Builder Name:</b> Klanders Construction       |                               | <b>Conditioned Area:</b> 1798 |                                        | <b>Platbook:</b> N/A                        |               |                             |       |
|                                 | <b>Climate:</b> North                            |                               | <b>Total Stories:</b> 1       |                                        | <b>Street:</b> 354 SE Forest Terrace        |               |                             |       |
|                                 | <b>Permit Office:</b> County Building and Zoning |                               | <b>Worst Case:</b> No         |                                        | <b>County:</b> Columbia                     |               |                             |       |
|                                 | <b>Jurisdiction #:</b> (blank)                   |                               | <b>Rotate Angle:</b> (blank)  |                                        | <b>City, St, Zip:</b> Lake City, FL, 32025- |               |                             |       |
| <b>FLOORS</b>                   | #                                                | Floor Type                    | R-Val                         | Area/Perimeter                         | Units                                       |               |                             |       |
|                                 | 1                                                | Slab-On-Grade Edge Insulation | 0.0                           | 182.0(p) ft                            | 1                                           |               |                             |       |
| <b>DOORS</b>                    | #                                                | Door Type                     | Orientation                   | Area                                   | Units                                       |               |                             |       |
|                                 | 1                                                | Insulated                     | Exterior                      | 48.0 ft²                               | 3                                           |               |                             |       |
| <b>CEILINGS</b>                 | #                                                | Ceiling Type                  | R-Val                         | Area                                   | Base Area                                   | Units         |                             |       |
|                                 | 1                                                | Under Attic                   | 30.0                          | 1798.0 ft²                             | 1798.0 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                                   | 1534.0 ft²                                  | 1             |                             |       |
| <b>HEATING</b>                  | #                                                | System Type                   | Efficiency                    | Capacity                               |                                             |               |                             |       |
|                                 | 1                                                | Electric Heat Pump            | HSPF: 7.70                    | 32.0 kBtu/hr                           |                                             |               |                             |       |
| Credit Multipliers: PT          |                                                  |                               |                               |                                        |                                             |               |                             |       |
| <b>DUCTS</b>                    | #                                                | Supply Location               | Return Location               | Air Handler Location                   | Supply R-Val                                | Supply Length |                             |       |
|                                 | 1                                                | Cond.                         | Cond.                         | Interior                               | 6.0                                         | 35.0 ft       |                             |       |
| Credit Multipliers: None        |                                                  |                               |                               |                                        |                                             |               |                             |       |
| <b>WATER</b>                    | #                                                | System Type                   | EF                            | Cap.                                   | Conservation Type                           | Con. EF       |                             |       |
|                                 | 1                                                | Electric Resistance           | 0.95                          | 50.0                                   | 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                      | 3     |
|                                 | 2                                                | Double                        | Clear                         | S                                      | 15.0 ft²                                    | 1.5 ft        | 6.0 ft                      | 3     |
|                                 | 3                                                | Double                        | Clear                         | E                                      | 15.0 ft²                                    | 1.5 ft        | 6.0 ft                      | 2     |
|                                 |                                                  |                               |                               |                                        |                                             |               |                             |       |
|                                 |                                                  |                               |                               |                                        |                                             |               |                             |       |
|                                 |                                                  |                               |                               |                                        |                                             |               |                             |       |
| <b>MISC</b>                     | <b>Rater Name:</b>                               |                               | CodeOnlyPro                   | <b>Class #:</b>                        |                                             | 3             | <b>Pool Size:</b> 0         |       |
|                                 | <b>Rater Certification #:</b>                    |                               | CodeOnlyPro                   | <b>Duct Leakage Type:</b>              |                                             | N/A           | <b>Pump Size:</b> 0.00 hp   |       |
|                                 | <b>Area Under Fluorescent:</b>                   |                               | 0.0                           | <b>Visible Duct Disconnects:</b>       |                                             | N/A           | <b>Dryer Type:</b> Electric |       |
|                                 | <b>Area Under Incandescent:</b>                  |                               | 1798.0                        | <b>Leak Free Duct System Proposed:</b> |                                             | No            | <b>Stove Type:</b> Electric |       |
|                                 | <b>NOTE: Not all Rating info shown</b>           |                               |                               | <b>HRV/ERV System Present?:</b>        |                                             | No            | <b>Avg Ceil Hgt:</b>        |       |
|                                 |                                                  |                               |                               |                                        |                                             |               |                             |       |
|                                 |                                                  |                               |                               |                                        |                                             |               |                             |       |

# Residential System Sizing Calculation

## Summary

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

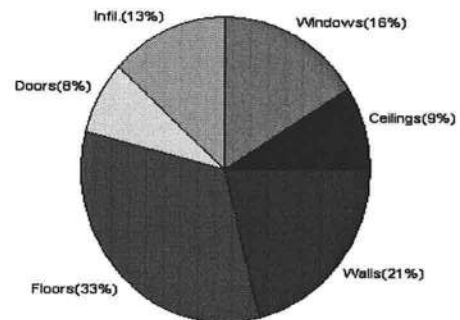
11/4/2008

|                                                                                                 |                   |                                       |                   |
|-------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|-------------------|
| 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>23938 Btuh</b> | <b>Total cooling load calculation</b> | <b>16133 Btuh</b> |
| Submitted heating capacity                                                                      | % of calc Btuh    | Submitted cooling capacity            | % of calc Btuh    |
| Total (Electric Heat Pump)                                                                      | 133.7 32000       | Sensible (SHR = 0.75)                 | 167.5 24000       |
| Heat Pump + Auxiliary(0.0kW)                                                                    | 133.7 32000       | Latent                                | 444.0 8000        |
|                                                                                                 |                   | Total (Electric Heat Pump)            | 198.3 32000       |

## WINTER CALCULATIONS

Winter Heating Load (for 1798 sqft)

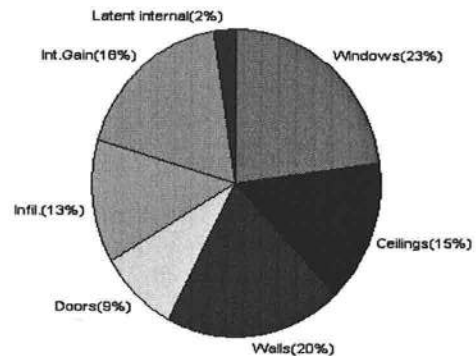
| Load component         |           | Load         |             |
|------------------------|-----------|--------------|-------------|
| Window total           | 120 sqft  | 3863         | Btuh        |
| Wall total             | 1534 sqft | 5038         | Btuh        |
| Door total             | 144 sqft  | 1865         | Btuh        |
| Ceiling total          | 1798 sqft | 2119         | Btuh        |
| Floor total            | 182 sqft  | 7946         | Btuh        |
| Infiltration           | 77 cfm    | 3107         | Btuh        |
| Duct loss              |           | 0            | Btuh        |
| <b>Subtotal</b>        |           | <b>23938</b> | <b>Btuh</b> |
| Ventilation            | 0 cfm     | 0            | Btuh        |
| <b>TOTAL HEAT LOSS</b> |           | <b>23938</b> | <b>Btuh</b> |



## SUMMER CALCULATIONS

Summer Cooling Load (for 1798 sqft)

| Load component                        |           | Load         |             |
|---------------------------------------|-----------|--------------|-------------|
| Window total                          | 120 sqft  | 3702         | Btuh        |
| Wall total                            | 1534 sqft | 3200         | Btuh        |
| Door total                            | 144 sqft  | 1411         | Btuh        |
| Ceiling total                         | 1798 sqft | 2405         | Btuh        |
| Floor total                           |           | 0            | Btuh        |
| Infiltration                          | 38 cfm    | 714          | Btuh        |
| Internal gain                         |           | 2900         | Btuh        |
| Duct gain                             |           | 0            | Btuh        |
| Sens. Ventilation                     | 0 cfm     | 0            | Btuh        |
| <b>Total sensible gain</b>            |           | <b>14331</b> | <b>Btuh</b> |
| Latent gain(ducts)                    |           | 0            | Btuh        |
| Latent gain(infiltration)             |           | 1402         | Btuh        |
| Latent gain(ventilation)              |           | 0            | Btuh        |
| Latent gain(internal/occupants/other) |           | 400          | Btuh        |
| <b>Total latent gain</b>              |           | <b>1802</b>  | <b>Btuh</b> |
| <b>TOTAL HEAT GAIN</b>                |           | <b>16133</b> | <b>Btuh</b> |



Version 8  
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: Debbie A. Motes

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

# System Sizing Calculations - Winter

## Residential Load - Whole House Component Details

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

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

11/4/2008

### Component Loads for Whole House

| Window       | Panes/SHGC/Frame/U          | Orientation | Area(sqft)   | X           | HTM= | Load       |
|--------------|-----------------------------|-------------|--------------|-------------|------|------------|
| 1            | 2, Clear, Metal, 0.87       | N           | 45.0         |             | 32.2 | 1449 Btuh  |
| 2            | 2, Clear, Metal, 0.87       | S           | 45.0         |             | 32.2 | 1449 Btuh  |
| 3            | 2, Clear, Metal, 0.87       | E           | 30.0         |             | 32.2 | 966 Btuh   |
|              | Window Total                |             | 120(sqft)    |             |      | 3863 Btuh  |
| Walls        | Type                        | R-Value     | Area         | X           | HTM= | Load       |
| 1            | Frame - Wood - Ext(0.09)    | 13.0        | 1534         |             | 3.3  | 5038 Btuh  |
|              | Wall Total                  |             | 1534         |             |      | 5038 Btuh  |
| Doors        | Type                        |             | Area         | X           | HTM= | Load       |
| 1            | Insulated - Exterior        |             | 144          |             | 12.9 | 1865 Btuh  |
|              | Door Total                  |             | 144          |             |      | 1865Btuh   |
| Ceilings     | Type/Color/Surface          | R-Value     | Area         | X           | HTM= | Load       |
| 1            | Vented Attic/L/Shin         | 30.0        | 1798         |             | 1.2  | 2119 Btuh  |
|              | Ceiling Total               |             | 1798         |             |      | 2119Btuh   |
| Floors       | Type                        | R-Value     | Size         | X           | HTM= | Load       |
| 1            | Slab On Grade               | 0           | 182.0 ft(p)  |             | 43.7 | 7946 Btuh  |
|              | Floor Total                 |             | 182          |             |      | 7946 Btuh  |
|              | Envelope Subtotal:          |             |              |             |      | 20830 Btuh |
| Infiltration | Type                        | ACH X       | Volume(cuft) | walls(sqft) | CFM= |            |
|              | Natural                     | 0.32        | 14384        | 1534        | 76.7 | 3107 Btuh  |
| Ductload     | (DLM of 0.000)              |             |              |             |      | 0 Btuh     |
| All Zones    | Sensible Subtotal All Zones |             |              |             |      | 23938 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 23938 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 23938 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

11/4/2008

### 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

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

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

11/4/2008

### Component Loads for Zone #1: Main

| Window       | Panes/SHGC/Frame/U                                                  | Orientation                    | Area(sqft) X | HTM= | Load       |
|--------------|---------------------------------------------------------------------|--------------------------------|--------------|------|------------|
| 1            | 2, Clear, Metal, 0.87                                               | N                              | 45.0         | 32.2 | 1449 Btuh  |
| 2            | 2, Clear, Metal, 0.87                                               | S                              | 45.0         | 32.2 | 1449 Btuh  |
| 3            | 2, Clear, Metal, 0.87                                               | E                              | 30.0         | 32.2 | 966 Btuh   |
|              | Window Total                                                        |                                | 120(sqft)    |      | 3863 Btuh  |
| Walls        | Type                                                                | R-Value                        | Area X       | HTM= | Load       |
| 1            | Frame - Wood - Ext(0.09)                                            | 13.0                           | 1534         | 3.3  | 5038 Btuh  |
|              | Wall Total                                                          |                                | 1534         |      | 5038 Btuh  |
| Doors        | Type                                                                |                                | Area X       | HTM= | Load       |
| 1            | Insulated - Exterior                                                |                                | 144          | 12.9 | 1865 Btuh  |
|              | Door Total                                                          |                                | 144          |      | 1865 Btuh  |
| Ceilings     | Type/Color/Surface                                                  | R-Value                        | Area X       | HTM= | Load       |
| 1            | Vented Attic/L/Shin                                                 | 30.0                           | 1798         | 1.2  | 2119 Btuh  |
|              | Ceiling Total                                                       |                                | 1798         |      | 2119 Btuh  |
| Floors       | Type                                                                | R-Value                        | Size X       | HTM= | Load       |
| 1            | Slab On Grade                                                       | 0                              | 182.0 ft(p)  | 43.7 | 7946 Btuh  |
|              | Floor Total                                                         |                                | 182          |      | 7946 Btuh  |
|              | Zone Envelope Subtotal:                                             |                                |              |      | 20830 Btuh |
| Infiltration | Type                                                                | ACH X Volume(cuft) walls(sqft) | CFM=         |      |            |
|              | Natural                                                             | 0.32 14384 1534                | 76.7         |      | 3107 Btuh  |
| Ductload     | Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond.) DLM of 0.000 |                                |              |      | 0 Btuh     |
| Zone #1      | Sensible Zone Subtotal                                              |                                |              |      | 23938 Btuh |

### WHOLE HOUSE TOTALS

|  |                      |            |
|--|----------------------|------------|
|  | Subtotal Sensible    | 23938 Btuh |
|  | Ventilation Sensible | 0 Btuh     |
|  | Total Btuh Loss      | 23938 Btuh |

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

11/4/2008

### 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 - Summer

## Residential Load - Whole House Component Details

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

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

11/4/2008

### 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. | 45.0              | 0.0    | 45.0            | 21     | 21        | 946        | Btuh |
| 2             | 2, Clear, 0.87, B-D, N,H   | S    | 1.5ft           | 6ft. | 45.0              | 45.0   | 0.0             | 21     | 26        | 946        | Btuh |
| 3             | 2, Clear, 0.87, B-D, N,H   | E    | 1.5ft           | 6ft. | 30.0              | 1.5    | 28.5            | 21     | 62        | 1810       | Btuh |
|               | Window Total               |      |                 |      | 120 (sqft)        |        |                 |        |           | 3702 Btuh  |      |
| Walls         | Type                       |      | R-Value/U-Value |      | Area(sqft)        |        | HTM             |        | Load      |            |      |
| 1             | Frame - Wood - Ext         |      | 13.0/0.09       |      | 1534.0            |        | 2.1             |        | 3200 Btuh |            |      |
|               | Wall Total                 |      |                 |      | 1534 (sqft)       |        |                 |        | 3200 Btuh |            |      |
| Doors         | Type                       |      |                 |      | Area (sqft)       |        | HTM             |        | Load      |            |      |
| 1             | Insulated - Exterior       |      |                 |      | 144.0             |        | 9.8             |        | 1411 Btuh |            |      |
|               | Door Total                 |      |                 |      | 144 (sqft)        |        |                 |        | 1411 Btuh |            |      |
| Ceilings      | Type/Color/Surface         |      | R-Value         |      | Area(sqft)        |        | HTM             |        | Load      |            |      |
| 1             | Vented Attic/Light/Shingle |      | 30.0            |      | 1798.0            |        | 1.3             |        | 2405 Btuh |            |      |
|               | Ceiling Total              |      |                 |      | 1798 (sqft)       |        |                 |        | 2405 Btuh |            |      |
| Floors        | Type                       |      | R-Value         |      | Size              |        | HTM             |        | Load      |            |      |
| 1             | Slab On Grade              |      | 0.0             |      | 182 (ft(p))       |        | 0.0             |        | 0 Btuh    |            |      |
|               | Floor Total                |      |                 |      | 182.0 (sqft)      |        |                 |        | 0 Btuh    |            |      |
|               | Envelope Subtotal:         |      |                 |      |                   |        |                 |        |           | 10718 Btuh |      |
| Infiltration  | Type                       |      | ACH             |      | Volume(cuft)      |        | wall area(sqft) |        | CFM=      | Load       |      |
|               | SensibleNatural            |      | 0.16            |      | 14384             |        | 1534            |        | 76.7      | 714 Btuh   |      |
| Internal gain |                            |      | Occupants       |      | Btuh/occupant     |        | Appliance       |        | Load      |            |      |
|               |                            |      | 2               |      | X 230 +           |        | 2440            |        | 2900 Btuh |            |      |
|               | Sensible Envelope Load:    |      |                 |      |                   |        |                 |        |           | 14331 Btuh |      |
| Duct load     | (DGM of 0.000)             |      |                 |      |                   |        |                 |        |           | 0 Btuh     |      |
|               | Sensible Load All Zones    |      |                 |      |                   |        |                 |        |           | 14331 Btuh |      |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

11/4/2008

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>14331 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>14331 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>14331 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 1402 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (2 people @ 200 Btuh per person)     | 400 Btuh          |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>1802 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>16133 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

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

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

11/4/2008

### 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. | 45.0              | 0.0    | 45.0            | 21        | 21         | 946       | Btuh       |  |
| 2             | 2, Clear, 0.87, B-D, N,H                                             | S    | 1.5ft                   | 6ft. | 45.0              | 45.0   | 0.0             | 21        | 26         | 946       | Btuh       |  |
| 3             | 2, Clear, 0.87, B-D, N,H                                             | E    | 1.5ft                   | 6ft. | 30.0              | 1.5    | 28.5            | 21        | 62         | 1810      | Btuh       |  |
|               | Window Total                                                         |      |                         |      | 120 (sqft)        |        |                 |           |            | 3702 Btuh |            |  |
| Walls         | Type                                                                 |      | R-Value/U-Value         |      | Area(sqft)        |        |                 | HTM       |            | Load      |            |  |
| 1             | Frame - Wood - Ext                                                   |      | 13.0/0.09               |      | 1534.0            |        |                 | 2.1       |            | 3200 Btuh |            |  |
|               | Wall Total                                                           |      |                         |      | 1534 (sqft)       |        |                 |           |            | 3200 Btuh |            |  |
| Doors         | Type                                                                 |      |                         |      | Area (sqft)       |        |                 | HTM       |            | Load      |            |  |
| 1             | Insulated - Exterior                                                 |      |                         |      | 144.0             |        |                 | 9.8       |            | 1411 Btuh |            |  |
|               | Door Total                                                           |      |                         |      | 144 (sqft)        |        |                 |           |            | 1411 Btuh |            |  |
| Ceilings      | Type/Color/Surface                                                   |      | R-Value                 |      | Area(sqft)        |        |                 | HTM       |            | Load      |            |  |
| 1             | Vented Attic/Light/Shingle                                           |      | 30.0                    |      | 1798.0            |        |                 | 1.3       |            | 2405 Btuh |            |  |
|               | Ceiling Total                                                        |      |                         |      | 1798 (sqft)       |        |                 |           |            | 2405 Btuh |            |  |
| Floors        | Type                                                                 |      | R-Value                 |      | Size              |        |                 | HTM       |            | Load      |            |  |
| 1             | Slab On Grade                                                        |      | 0.0                     |      | 182 (ft(p))       |        |                 | 0.0       |            | 0 Btuh    |            |  |
|               | Floor Total                                                          |      |                         |      | 182.0 (sqft)      |        |                 |           |            | 0 Btuh    |            |  |
|               |                                                                      |      | Zone Envelope Subtotal: |      |                   |        |                 |           |            |           | 10718 Btuh |  |
| Infiltration  | Type                                                                 |      | ACH                     |      | Volume(cuft)      |        | wall area(sqft) |           | CFM=       | Load      |            |  |
|               | SensibleNatural                                                      |      | 0.16                    |      | 14384             |        | 1534            |           | 38.4       | 714 Btuh  |            |  |
| Internal gain |                                                                      |      | Occupants               |      | Btuh/occupant     |        |                 | Appliance |            | Load      |            |  |
|               |                                                                      |      | 2                       |      | X 230 +           |        |                 | 2440      |            | 2900 Btuh |            |  |
|               |                                                                      |      | Sensible Envelope Load: |      |                   |        |                 |           |            |           | 14331 Btuh |  |
| Duct load     | Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond) (DGM of 0.000) |      |                         |      |                   |        |                 |           | 0 Btuh     |           |            |  |
|               | Sensible Zone Load                                                   |      |                         |      |                   |        |                 |           | 14331 Btuh |           |            |  |

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

11/4/2008

### WHOLE HOUSE TOTALS

|                                           |                                                           |                   |
|-------------------------------------------|-----------------------------------------------------------|-------------------|
| <b>Whole House<br/>Totals for Cooling</b> | <b>Sensible Envelope Load All Zones</b>                   | <b>14331 Btuh</b> |
|                                           | Sensible Duct Load                                        | 0 Btuh            |
|                                           | <b>Total Sensible Zone Loads</b>                          | <b>14331 Btuh</b> |
|                                           | Sensible ventilation                                      | 0 Btuh            |
|                                           | Blower                                                    | 0 Btuh            |
|                                           | <b>Total sensible gain</b>                                | <b>14331 Btuh</b> |
|                                           | Latent infiltration gain (for 54 gr. humidity difference) | 1402 Btuh         |
|                                           | Latent ventilation gain                                   | 0 Btuh            |
|                                           | Latent duct gain                                          | 0 Btuh            |
|                                           | Latent occupant gain (2 people @ 200 Btuh per person)     | 400 Btuh          |
|                                           | Latent other gain                                         | 0 Btuh            |
|                                           | <b>Latent total gain</b>                                  | <b>1802 Btuh</b>  |
|                                           | <b>TOTAL GAIN</b>                                         | <b>16133 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

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

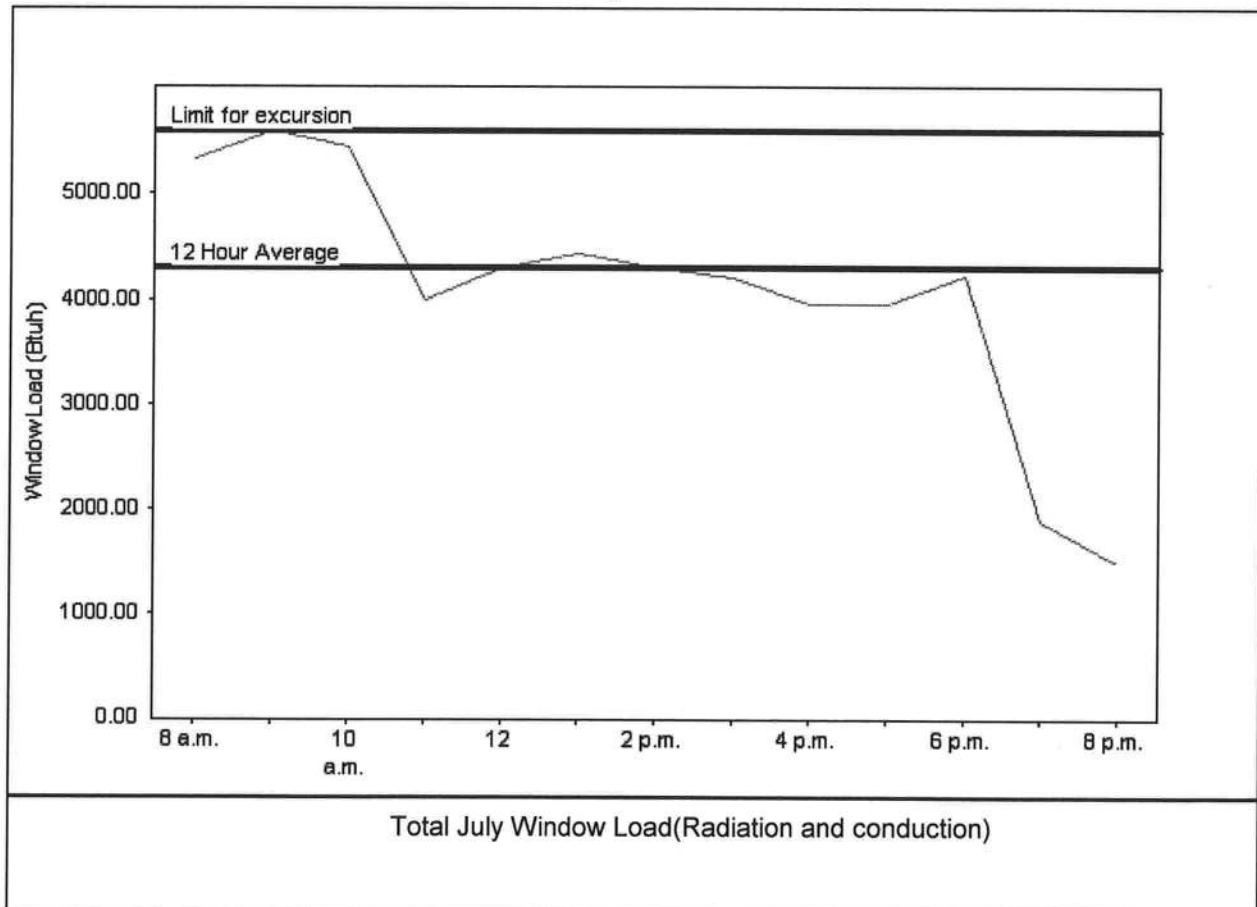
Code Only  
Professional Version  
Climate: North

11/4/2008

Weather data for: Gainesville - Defaults

|                               |          |                               |           |
|-------------------------------|----------|-------------------------------|-----------|
| Summer design temperature     | 92 F     | Average window load for July  | 4303 Btuh |
| Summer setpoint               | 75 F     | Peak window load for July     | 5607 Btuh |
| Summer temperature difference | 17 F     | Excursion limit(130% of Ave.) | 5594 Btuh |
| Latitude                      | 29 North | Window excursion (July)       | 14 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: Debbie S. Motes

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



To Building Dept in Columbia County FL to whom it may concern, I Steve Klanderud authorize Elaine Klanderud to pick up Permit for Anita Scott Residence on Forest - Terrace in Lake City Fl

Steve Klanderud Owner Steve Klanderud  
CBC053047

Columbia County T

Sworn to and subscribed before me this 26 day of Nov, 2008 Steve Klanderud who is personally known to me or produced license and did take an oath

Notary Public [Signature]

My commission expires

September 25 2008



7/12 \*  
\* ORIGINAL  
- Subsequent  
- Later

LOT 6 BLOCK C CENTURY OAK S/D. 16-4S-17-08382-430 Columbia County 2008 R  
ORB 736-958, 767-265, ANITA M SCOTT (JTWRs) PRINTED 8/04/2008 13:57 CARD 001 of 001  
843-1261, 863-1495, 354 SE FOREST TERRACE APPR 6/15/2005 TWDF BY JEFF  
WD 1021-804 JTWRs. LAKE CITY, FL 32025

[illegible][illegible][illegible]

| LINE | QTY | UNIT | DESCRIPTION | DATE | TIME | STATUS | REMARKS | EXPT | COTXBL |
|------|-----|------|-------------|------|------|--------|---------|------|--------|
| 01   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 02   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 03   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 04   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 05   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 06   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 07   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 08   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 09   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 10   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 11   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 12   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 13   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 14   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 15   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 16   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 17   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 18   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 19   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 20   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 21   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 22   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 23   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 24   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 25   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 26   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 27   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 28   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 29   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 30   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 31   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 32   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 33   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 34   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 35   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 36   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 37   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 38   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 39   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 40   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 41   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 42   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 43   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 44   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 45   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 46   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 47   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 48   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 49   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 50   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 51   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 52   | 1   | HR   | HR          | 12   | 23   |        |         | 0    | 0      |
| 53   | 1   | HR   | HR          | 12   | 23</ |        |         |      |        |

| SIZE | ARCH | FRME | UD-5 | UD-6 | UD-7 | UD-8 | UD-9 | UD-10 | UD-11 | UD-12 | UD-13 | UD-14 | UD-15 | UD-16 | UD-17 | UD-18 | UD-19 | UD-20 | UD-21 | UD-22 | UD-23 | UD-24 | UD-25 | UD-26 | UD-27 | UD-28 | UD-29 | UD-30 | UD-31 | UD-32 | UD-33 | UD-34 | UD-35 | UD-36 | UD-37 | UD-38 | UD-39 | UD-40 | UD-41 | UD-42 | UD-43 | UD-44 | UD-45 | UD-46 | UD-47 | UD-48 | UD-49 | UD-50 | UD-51 | UD-52 | UD-53 | UD-54 | UD-55 | UD-56 | UD-57 | UD-58 | UD-59 | UD-60 | UD-61 | UD-62 | UD-63 | UD-64 | UD-65 | UD-66 | UD-67 | UD-68 | UD-69 | UD-70 | UD-71 | UD-72 | UD-73 | UD-74 | UD-75 | UD-76 | UD-77 | UD-78 | UD-79 | UD-80 | UD-81 | UD-82 | UD-83 | UD-84 | UD-85 | UD-86 | UD-87 | UD-88 | UD-89 | UD-90 | UD-91 | UD-92 | UD-93 | UD-94 | UD-95 | UD-96 | UD-97 | UD-98 | UD-99 | UD-100 | UD-101 | UD-102 | UD-103 | UD-104 | UD-105 | UD-106 | UD-107 | UD-108 | UD-109 | UD-110 | UD-111 | UD-112 | UD-113 | UD-114 | UD-115 | UD-116 | UD-117 | UD-118 | UD-119 | UD-120 | UD-121 | UD-122 | UD-123 | UD-124 | UD-125 | UD-126 | UD-127 | UD-128 | UD-129 | UD-130 | UD-131 | UD-132 | UD-133 | UD-134 | UD-135 | UD-136 | UD-137 | UD-138 | UD-139 | UD-140 | UD-141 | UD-142 | UD-143 | UD-144 | UD-145 | UD-146 | UD-147 | UD-148 | UD-149 | UD-150 | UD-151 | UD-152 | UD-153 | UD-154 | UD-155 | UD-156 | UD-157 | UD-158 | UD-159 | UD-160 | UD-161 | UD-162 | UD-163 | UD-164 | UD-165 | UD-166 | UD-167 | UD-168 | UD-169 | UD-170 | UD-171 | UD-172 | UD-173 | UD-174 | UD-175 | UD-176 | UD-177 | UD-178 | UD-179 | UD-180 | UD-181 | UD-182 | UD-183 | UD-184 | UD-185 | UD-186 | UD-187 | UD-188 | UD-189 | UD-190 | UD-191 | UD-192 | UD-193 | UD-194 | UD-195 | UD-196 | UD-197 | UD-198 | UD-199 | UD-200 | UD-201 | UD-202 | UD-203 | UD-204 | UD-205 | UD-206 | UD-207 | UD-208 | UD-209 | UD-210 | UD-211 | UD-212 | UD-213 | UD-214 | UD-215 | UD-216 | UD-217 | UD-218 | UD-219 | UD-220 | UD-221 | UD-222 | UD-223 | UD-224 | UD-225 | UD-226 | UD-227 | UD-228 | UD-229 | UD-230 | UD-231 | UD-232 | UD-233 | UD-234 | UD-235 | UD-236 | UD-237 | UD-238 | UD-239 | UD-240 | UD-241 | UD-242 | UD-243 | UD-244 | UD-245 | UD-246 | UD-247 | UD-248 | UD-249 | UD-250 | UD-251 | UD-252 | UD-253 | UD-254 | UD-255 | UD-256 | UD-257 | UD-258 | UD-259 | UD-260 | UD-261 | UD-262 | UD-263 | UD-264 | UD-265 | UD-266 | UD-267 | UD-268 | UD-269 | UD-270 | UD-271 | UD-272 | UD-273 | UD-274 | UD-275 | UD-276 | UD-277 | UD-278 | UD-279 | UD-280 | UD-281 | UD-282 | UD-283 | UD-284 | UD-285 | UD-286 | UD-287 | UD-288 | UD-289 | UD-290 | UD-291 | UD-292 | UD-293 | UD-294 | UD-295 | UD-296 | UD-297 | UD-298 | UD-299 | UD-300 | UD-301 | UD-302 | UD-303 | UD-304 | UD-305 | UD-306 | UD-307 | UD-308 | UD-309 | UD-310 | UD-311 | UD-312 | UD-313 | UD-314 | UD-315 | UD-316 | UD-317 | UD-318 | UD-319 | UD-320 | UD-321 | UD-322 | UD-323 | UD-324 | UD-325 | UD-326 | UD-327 | UD-328 | UD-329 | UD-330 | UD-331 | UD-332 | UD-333 | UD-334 | UD-335 | UD-336 | UD-337 | UD-338 | UD-339 | UD-340 | UD-341 | UD-342 | UD-343 | UD-344 | UD-345 | UD-346 | UD-347 | UD-348 | UD-349 | UD-350 | UD-351 | UD-352 | UD-353 | UD-354 | UD-355 | UD-356 | UD-357 | UD-358 | UD-359 | UD-360 | UD-361 | UD-362 | UD-363 | UD-364 | UD-365 | UD-366 | UD-367 | UD-368 | UD-369 | UD-370 | UD-371 | UD-372 | UD-373 | UD-374 | UD-375 | UD-376 | UD-377 | UD-378 | UD-379 | UD-380 | UD-381 | UD-382 | UD- |
|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|

| NAME | AGE | SEX | REL  | STATUS | REMARKS |
|------|-----|-----|------|--------|---------|
| KICH | 01  | N/A | UD-6 | N/A    |         |
| WDO  | 7   | N/A | UD-7 | N/A    |         |
| CLAS | 8   | N/A | UD-8 | N/A    |         |
| OCC  | 9   | N/A | UD-9 | N/A    |         |

[illegible]

|       |     |    |    |      |   |                   |      |               |       |
|-------|-----|----|----|------|---|-------------------|------|---------------|-------|
| FSP93 | 120 | 55 | 66 | 2/30 | + | -----             | SALE | -----         | PRICE |
|       |     |    |    |      | + | BOOK              | PAGE | DATE          | 75900 |
|       |     |    |    |      | + | 863               | 1495 | 8/03/1998 Q I |       |
|       |     |    |    |      | + | GRANTOR BUSSCHER  |      |               |       |
|       |     |    |    |      | + | GRANTOR SUBSCRIPT |      |               |       |

[illegible]

| EXTRA FEATURES----- |      |            |     | FIELD CK: |      |     |    | ----- |      |    |          |           |        |        |      |       |
|---------------------|------|------------|-----|-----------|------|-----|----|-------|------|----|----------|-----------|--------|--------|------|-------|
| AE BN               | CODE | DESC       | LEN | WID       | HGHT | QTY | QL | YR    | ADJ  | UT | PRICE    | ADJ UT PR | SPCD % | %GOOD  | XFOB | VALUE |
| Y 1                 | 0190 | FPLC PF    |     |           |      | 1   |    | 1993  | 1.00 | UT | 1600.000 | 1600.000  |        | 100.00 |      | 1,600 |
| Y 0280              |      | POOL R/CON | 32  | 15        |      | 1   |    | 1993  | 1.00 | SF | 36.000   | 36.000    |        | 40.00  |      | 6,912 |

| Y                                                                                                                                                              | 0120                                                                                                                                                | CLIFENCE 4                                                                                                                            | 1                                                                                                                   | 1993                                                                                                     | 1.00                                                                                      | 1,000 UT | 300,000  | 300,000  | 100.00 | 300   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------|----------|----------|--------|-------|
| Y <td>0060 <td>CARPOT F <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> </td></td></td></td></td> | 0060 <td>CARPOT F <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> </td></td></td></td> | CARPOT F <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> </td></td></td> | 1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> </td></td> | 2004 <td>1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> </td> | 1.00 <th>1,000 UT</th> <th>1800,000</th> <th>1800,000</th> <th>100.00</th> <th>1,800</th> | 1,000 UT | 1800,000 | 1800,000 | 100.00 | 1,800 |
| Y <td>0294 <td>SHED WOOD/VI <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th> </td></td></td></td></td> | 0294 <td>SHED WOOD/VI <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th> </td></td></td></td> | SHED WOOD/VI <td>1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th> </td></td></td> | 1 <td>2004 <td>1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th> </td></td>     | 2004 <td>1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th> </td>     | 1.00 <th>1,000 UT</th> <th>800,000</th> <th>800,000</th> <th>100.00</th> <th>800</th>     | 1,000 UT | 800,000  | 800,000  | 100.00 | 800   |

| LAND | DESC   | ZONE | ROAD | UD1 { | UD3 { | FRONT | DEPTH | FIELD       | CK:  | UNITS | UT   | PRICE     | ADJ | UT | PR | LAND   | VALUE |
|------|--------|------|------|-------|-------|-------|-------|-------------|------|-------|------|-----------|-----|----|----|--------|-------|
| AE   | CODE   | TOPO | UTIL | UD2 { | UD4 { | BACK  | DT    | ADJUSTMENTS |      | 1.000 | LT   | 19500.000 |     |    |    | 19,500 |       |
| Y    | 000100 | SFR  |      |       |       |       |       | 1.00        | 1.00 | 1.00  | 1.00 |           |     |    |    |        |       |
| 2008 |        |      |      |       |       |       |       |             |      |       |      |           |     |    |    |        |       |

Pump & Cert. fees  
Exist \$125.00  
#86-223

Prepared by/Return to:  
William B. Brennan, Jr.  
Jordan & Brennan  
934 NE Lake DeSoto Circle  
Lake City, Florida 32055

Rec 18.50  
Doc Stamps 70  
19.20

Inst:2004016731 Date:07/20/2004 Time:15:22

Loc Stamp-Deed : 0.70

OK DC, P. DeWitt Cason, Columbia County B:1021 P:804

### WARRANTY DEED

THIS WARRANTY DEED made this 20 day of July, 2004, by Albert L. Aylesworth, a single person, hereinafter called the Grantor, to Albert L. Aylesworth and Anita M. Scott, as joint tenants with right of survivorship, whose post office address is 354 SE Forest Terrace, Lake City, Florida 32025, hereinafter called the Grantee:

### WITNESSETH:

That the Grantor, for and in consideration of the sum of TEN AND NO/100 (\$10.00) DOLLARS and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, alien., remises, releases, conveys and confirms unto the Grantee, all that certain land situate in Columbia County, Florida v/z:

Lot 6, Block C, Century Oak, a subdivision according to plat recorded at Plat Book 4, Pages 68-68A, public records of Columbia County, Florida

SUBJECT TO: Taxes for 2004 and subsequent years; restrictions and easements of record; and easements shown by the plat of said property.

Parcel Number: 16-4S-17-08382-430

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

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

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2003.

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

Signed, sealed and delivered  
in the presence of:

William B Branner Jr.  
Witness  
William B Branner Jr.  
(Print/type name)

Lisa Schlink  
Witness  
Lisa Schlink  
(Print/type name)

Albert L. Aylesworth (SEAL)  
ALBERT L. AYLESWORTH

Inst: 2004016731 Date: 7/20/2004 Time: 15:22  
Doc Stamp-Deed: 0.70  
DC, P. DeWitt Cason, Columbia County B: 1021 P: 805

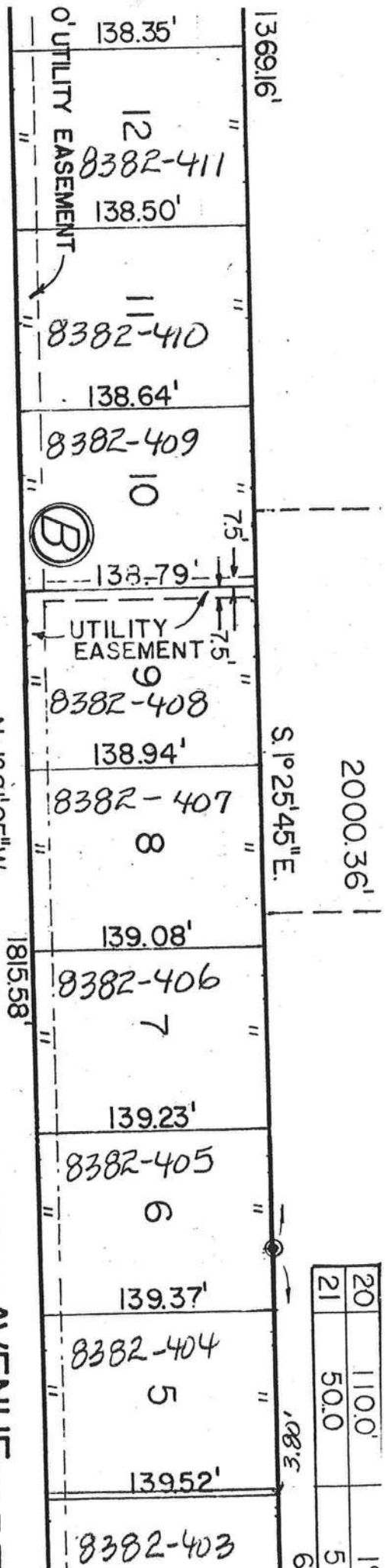
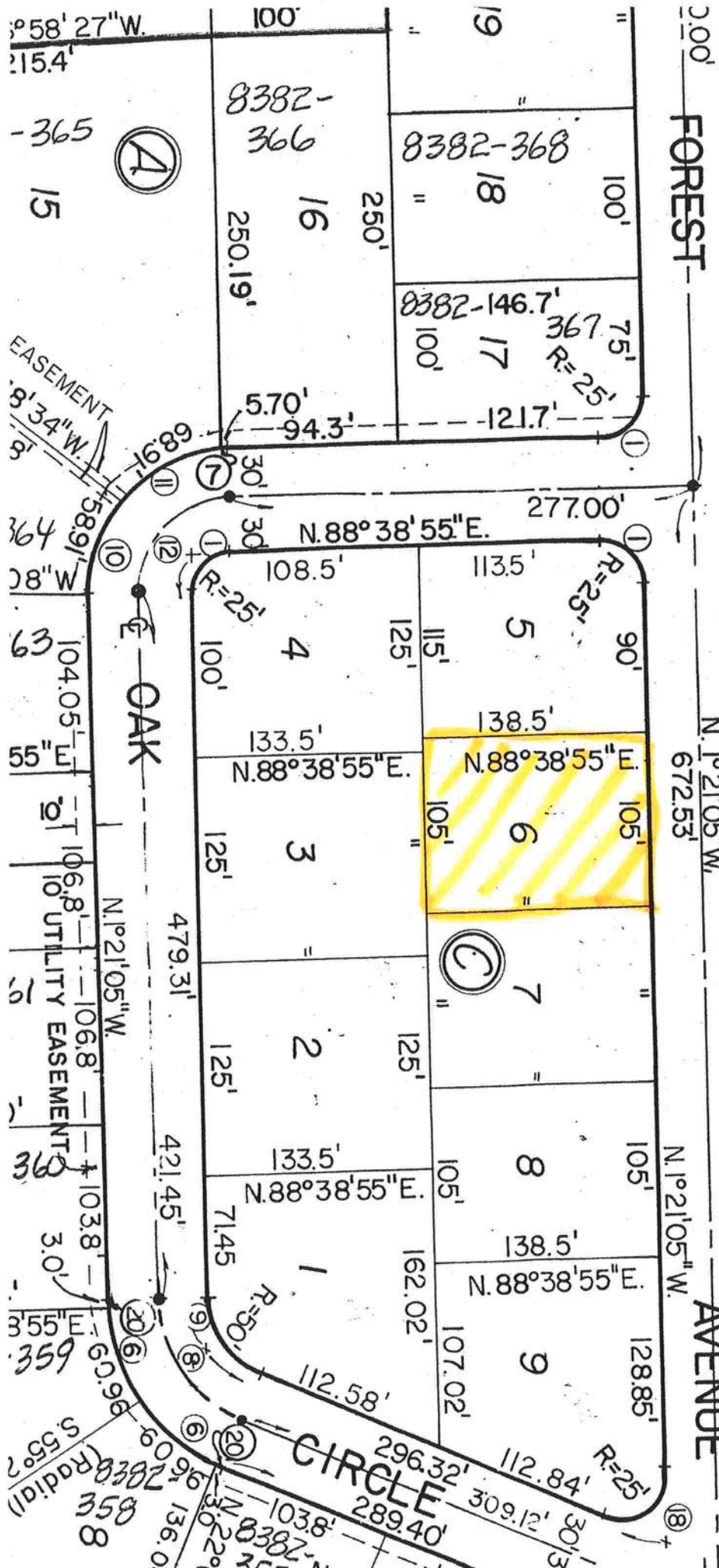
STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 20<sup>th</sup> day of July, 2004, by Albert L. Aylesworth who is personally known to me or produced a drivers license, #A426 03233-346-0

Mary E. Neath  
Notary Public, State of Florida  
My Commission Expires:

(NOTARIAL)  
SEAL)

Mary E Neath  
My Commission DD142421  
Expires August 15, 2008



|    |        |    |
|----|--------|----|
| 20 | 110.0' | 1' |
| 21 | 50.0   | 5  |



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

08-0723-5

PERMIT NO. 901869  
DATE PAID: 11/13/08  
FEE PAID: 155.00  
RECEIPT #: 1079414

APPLICATION FOR:

[ ] New System [ ☒ ] Existing System [ ] Holding Tank [ ] Innovative  
[ ] Repair [ ] Abandonment [ ] Temporary [ ]

APPLICANT: Anita Scott

AGENT: Steve KLANDERUD KLANDERSCONST. TELEPHONE: 758 8287

MAILING ADDRESS: PO Box 3515 LAKE CITY Florida 32056

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(M) OR 489.552, FLORIDA STATUTES.

PROPERTY INFORMATION

LOT: 6 BLOCK: C SUBDIVISION: Century Oak PLATTED: 77

PROPERTY ID #: 16-45-17-08382-430 ZONING: I/M OR EQUIVALENT: [ Y / N ]

PROPERTY SIZE: 105' x 138.5" ACRES WATER SUPPLY: [ Y ] PRIVATE PUBLIC [ ] <=2000GPD [ ] >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? [ Y ] (N) DISTANCE TO SEWER: — FT

PROPERTY ADDRESS: 354 SE Forest Terrace L City Florida 32025

DIRECTIONS TO PROPERTY: South on 41 LEFT on 252 LEFT on Forest Terrace

BUILDING INFORMATION

[ ] RESIDENTIAL

[ ] COMMERCIAL

| Unit No | Type of Establishment | No. of Bedrooms | Building Area Sqft | Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC |
|---------|-----------------------|-----------------|--------------------|--------------------------------------------------------------------|
| 1       | Existing Residence    | 3               | 1500               | Original Attached                                                  |
| 2       | Addition (Bathroom)   |                 | 124                |                                                                    |
| 3       |                       |                 | 1624 Total         |                                                                    |
| 4       |                       |                 |                    |                                                                    |

[ ] Floor/Equipment Drains [ ☒ ] Other (Specify)

SIGNATURE: Steve Klanderud DATE: Nov/12/08



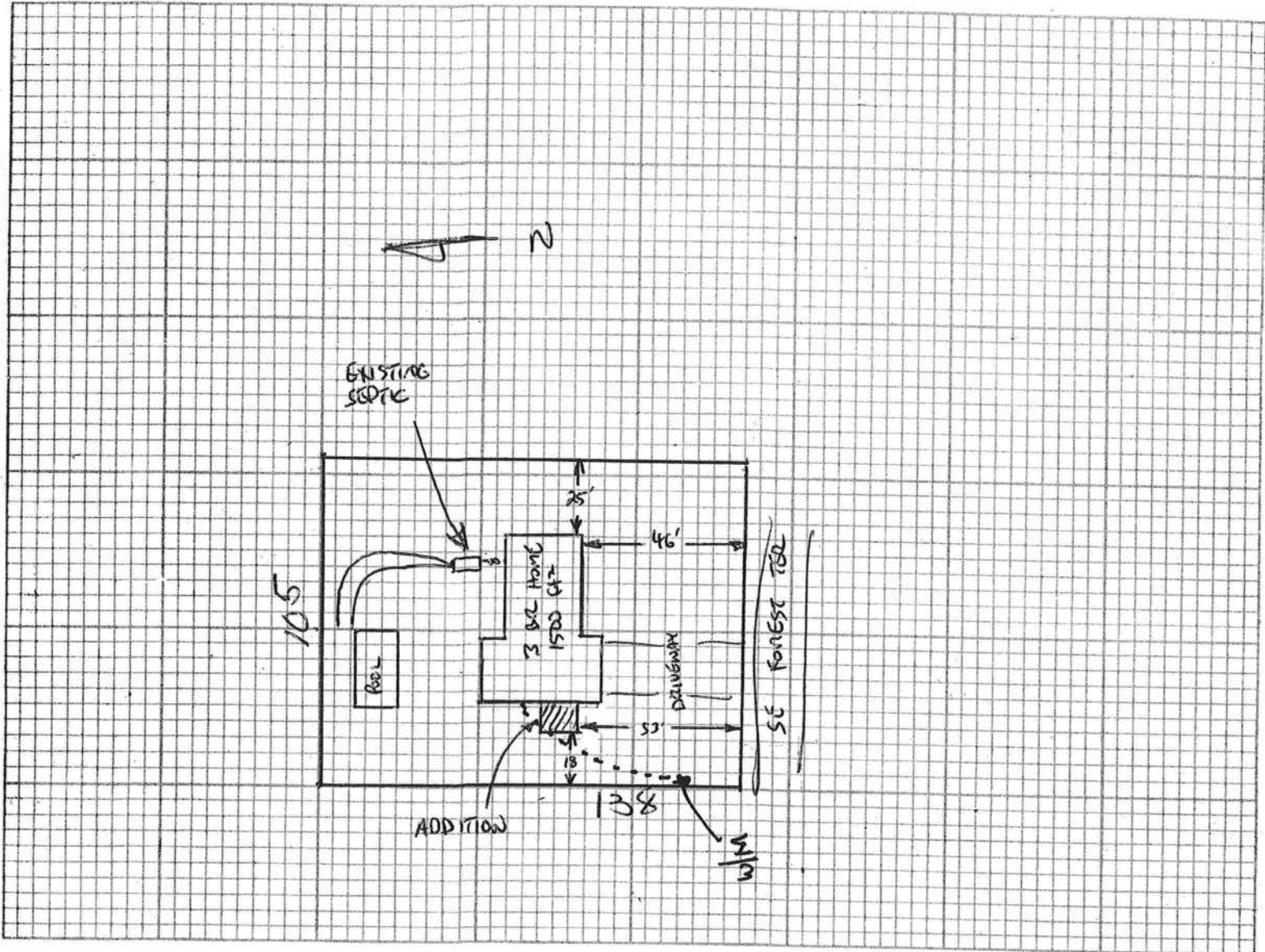
STATE OF FLORIDA  
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 08-0723E

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.



Notes: CITY WATER

Site Plan submitted by:

Plan Approved

By

Signature

Not Approved

**Columbia CHD**

Title

Date 10/18/08

County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

0811-27

**PRODUCT APPROVAL SPECIFICATION SHEET****Location:** 354 Forest Terrace**Project Name:** Anita Scott

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                | Masonite     | out Swing Aluminum 2-8 | FL 18              |
| 2. Sliding                 |              |                        |                    |
| 3. Sectional               |              |                        |                    |
| 4. Roll up                 |              |                        |                    |
| 5. Automatic               |              |                        |                    |
| 6. Other                   |              |                        |                    |
| <b>B. WINDOWS</b>          |              |                        |                    |
| 1. Single hung             |              |                        |                    |
| 2. Horizontal Slider       |              |                        |                    |
| 3. Casement                |              |                        |                    |
| 4. Double Hung             |              |                        |                    |
| 5. Fixed                   | Bater Built  | Octagon                | B.B. FL 663        |
| 6. Awning                  |              |                        |                    |
| 7. Pass-through            |              |                        |                    |
| 8. Projected               |              |                        |                    |
| 9. Mullion                 |              |                        |                    |
| 10. Wind Breaker           |              |                        |                    |
| 11. Dual Action            |              |                        |                    |
| 12. Other                  |              |                        |                    |
| <b>C. PANEL WALL</b>       |              |                        |                    |
| 1. Siding                  |              | Vinyl 5"               |                    |
| 2. Soffits                 |              | Aluminum               |                    |
| 3. EIFS                    |              |                        |                    |
| 4. Storefronts             |              |                        |                    |
| 5. Curtain walls           |              |                        |                    |
| 6. Wall louver             |              |                        |                    |
| 7. Glass block             |              |                        |                    |
| 8. Membrane                |              |                        |                    |
| 9. Greenhouse              |              |                        |                    |
| 10. Other                  |              |                        |                    |
| <b>D. ROOFING PRODUCTS</b> |              |                        |                    |
| 1. Asphalt Shingles        | TAMCO        | Three Tab              |                    |
| 2. Underlayments           |              | 1/2" CDX               |                    |
| 3. Roofing Fasteners       |              | 1 1/4" Roof Nails      |                    |
| 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          |              | 30 LB Felt             |                    |
| 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         |                |                           |                    |
| 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                 | <i>SIMPSON</i> |                           |                    |
| 2. Truss plates                          | <i>ALPINE</i>  | <i>ENGINEERED TRUSSES</i> |                    |
| 3. Engineered lumber                     |                |                           |                    |
| 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

*Steve Klandier*  
 Contractor or Contractor's Authorized Agent Signature  
354 S.E. Forest Terrace  
 Location

*Steve KLANDIER* 11/19/08  
 Print Name Date  
 Permit # (FOR STAFF USE ONLY)

# System Sizing Calculations - Summer

## Residential Load - Room by Room Component Details

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

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

11/4/2008

### 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.          | 45.0              | 0.0    | 45.0      | 21     | 21        | 946 Btuh   |
| 2             | 2, Clear, 0.87, B-D, N,H                                             | S    | 1.5ft           | 6ft.          | 45.0              | 45.0   | 0.0       | 21     | 26        | 946 Btuh   |
| 3             | 2, Clear, 0.87, B-D, N,H                                             | E    | 1.5ft           | 6ft.          | 30.0              | 1.5    | 28.5      | 21     | 62        | 1810 Btuh  |
|               | Window Total                                                         |      |                 |               | 120 (sqft)        |        |           |        |           | 3702 Btuh  |
| Walls         | Type                                                                 |      | R-Value/U-Value |               | Area(sqft)        |        |           | HTM    |           | Load       |
| 1             | Frame - Wood - Ext                                                   |      | 13.0/0.09       |               | 1534.0            |        |           | 2.1    |           | 3200 Btuh  |
|               | Wall Total                                                           |      |                 |               | 1534 (sqft)       |        |           |        |           | 3200 Btuh  |
| Doors         | Type                                                                 |      |                 |               | Area (sqft)       |        |           | HTM    |           | Load       |
| 1             | Insulated - Exterior                                                 |      |                 |               | 144.0             |        |           | 9.8    |           | 1411 Btuh  |
|               | Door Total                                                           |      |                 |               | 144 (sqft)        |        |           |        |           | 1411 Btuh  |
| Ceilings      | Type/Color/Surface                                                   |      | R-Value         |               | Area(sqft)        |        |           | HTM    |           | Load       |
| 1             | Vented Attic/Light/Shingle                                           |      | 30.0            |               | 1798.0            |        |           | 1.3    |           | 2405 Btuh  |
|               | Ceiling Total                                                        |      |                 |               | 1798 (sqft)       |        |           |        |           | 2405 Btuh  |
| Floors        | Type                                                                 |      | R-Value         |               | Size              |        |           | HTM    |           | Load       |
| 1             | Slab On Grade                                                        |      | 0.0             |               | 182 (ft(p))       |        |           | 0.0    |           | 0 Btuh     |
|               | Floor Total                                                          |      |                 |               | 182.0 (sqft)      |        |           |        |           | 0 Btuh     |
|               | Zone Envelope Subtotal:                                              |      |                 |               |                   |        |           |        |           | 10718 Btuh |
| Infiltration  | Type                                                                 |      | ACH             | Volume(cuft)  | wall area(sqft)   |        | CFM=      |        | Load      |            |
|               | SensibleNatural                                                      |      | 0.16            | 14384         | 1534              |        | 38.4      |        | 714 Btuh  |            |
| Internal gain |                                                                      |      | Occupants       | Btuh/occupant |                   |        | Appliance |        | Load      |            |
|               |                                                                      |      | 2               | X 230         | +                 |        | 2440      |        | 2900 Btuh |            |
|               | Sensible Envelope Load:                                              |      |                 |               |                   |        |           |        |           | 14331 Btuh |
| Duct load     | Average sealed, Supply(R6.0-Cond.), Return(R6.0-Cond) (DGM of 0.000) |      |                 |               |                   |        |           |        |           | 0 Btuh     |
|               | Sensible Zone Load                                                   |      |                 |               |                   |        |           |        |           | 14331 Btuh |

# ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844  
Florida Engineering Certificate of Authorization Number: 0 278  
Florida Certificate of Product Approval # FL1999  
Page 1 of 1 Document ID: ITML215-Z0113131835

Truss Fabricator: W.B. Howland  
Job Identification: 5829-/KLANDERUD ADDITION /Contractor -- , \*\*  
Truss Count: 2  
Model Code: Florida Building Code 2004 and 2006 Supplement  
Truss Criteria: ANSI/TPI-2002(STD)/FBC  
Engineering Software: Alpine Software, Version 7.38.  
Structural Engineer of Record: The identity of the structural EOR did not exist as of  
Address: the seal date per section 61615-31.003(5a) of the FAC  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-02 -Closed

## Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Details: A11015EE-GBLLETIN-



Seal Date: 11/13/2008

-Truss Design Engineer-  
James F. Collins Jr.  
Florida License Number: 52212  
1950 Marley Drive  
Haines City, FL 33844

| # | Ref       | Description | Drawing# | Date     |
|---|-----------|-------------|----------|----------|
| 1 | 44017--1  |             | 08318001 | 11/13/08 |
| 2 | 44018--A1 |             | 08318002 | 11/13/08 |



| Top chord | 2x4 | SP | #2 | N |
|-----------|-----|----|----|---|
| Bot chord | 2x4 | SP | #2 | N |
| Web       | 2x4 | SP | #2 | N |

Gable end supports 8" max rake overhang.

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.

In lieu of structural panels use purlins to brace TC @ 24" OC.

Deflection meets L/240 live and L/180 total load.

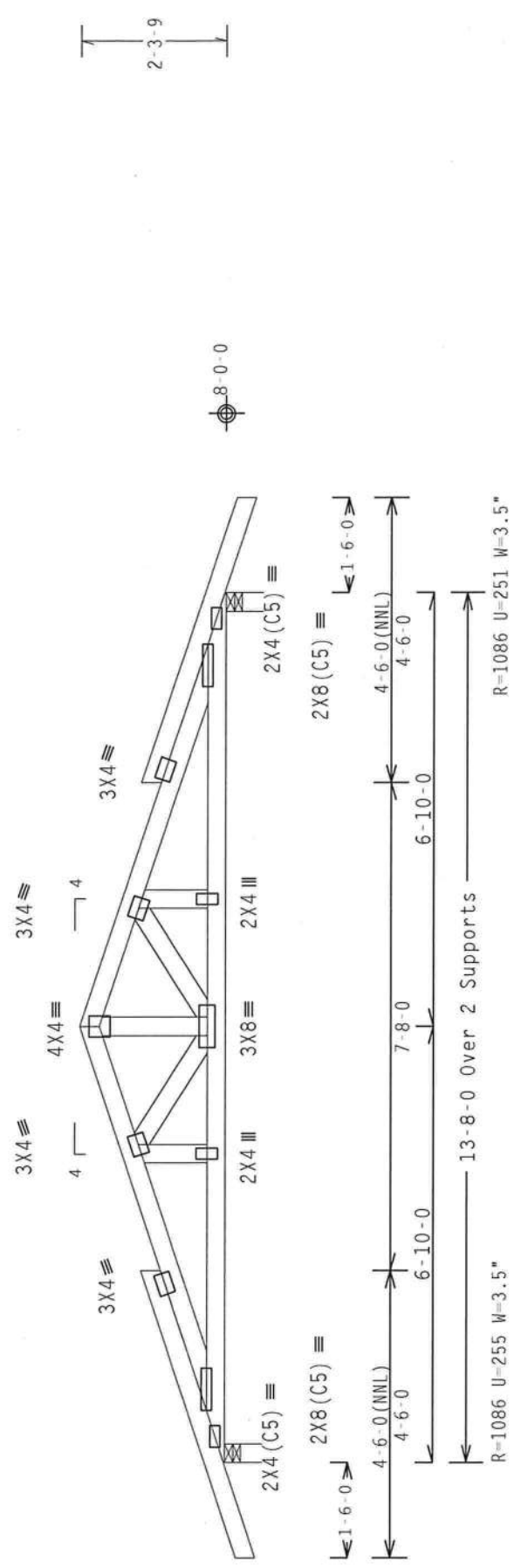
The overall height of this truss excluding overhang is 2-3-9.

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end, all connections to be designed by the building designer.

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

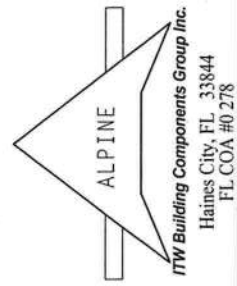
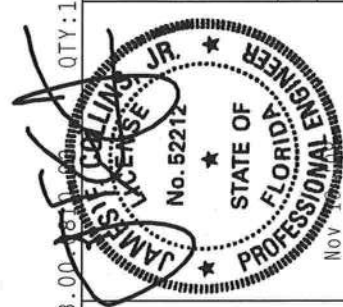
Stacked top chord must NOT be notched or cut in area (NNT) . Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in noticable area using 3x4 tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length.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



| PPLT | TYP. | Wave | Design Crit: | TPI-2002 (STD) / FBC |
|------|------|------|--------------|----------------------|
|      |      |      |              | Cq/RT-1.00(1.25) /   |

QTY: 1 FL / - / 5 / - / - / R / - Scale = .375" / Ft.

|          |          |        |             |          |
|----------|----------|--------|-------------|----------|
| TC LL    | 20.0 PSF | REF    | R215--      | 44017    |
| TC DL    | 10.0 PSF | DATE   | 11/13/08    |          |
| BC DL    | 10.0 PSF | DRW    | HCUSR215    | 08318001 |
| BC LL    | 0.0 PSF  | HC-ENG | DLJ/DLJ     |          |
| TOT.LD.  | 40.0 PSF | SEQN-  | 151330      |          |
| DUR.FAC. | 1.25     | FROM   | LRB         |          |
| SPACING  | 24.0"    | JREF-  | 1TML215_Z01 |          |



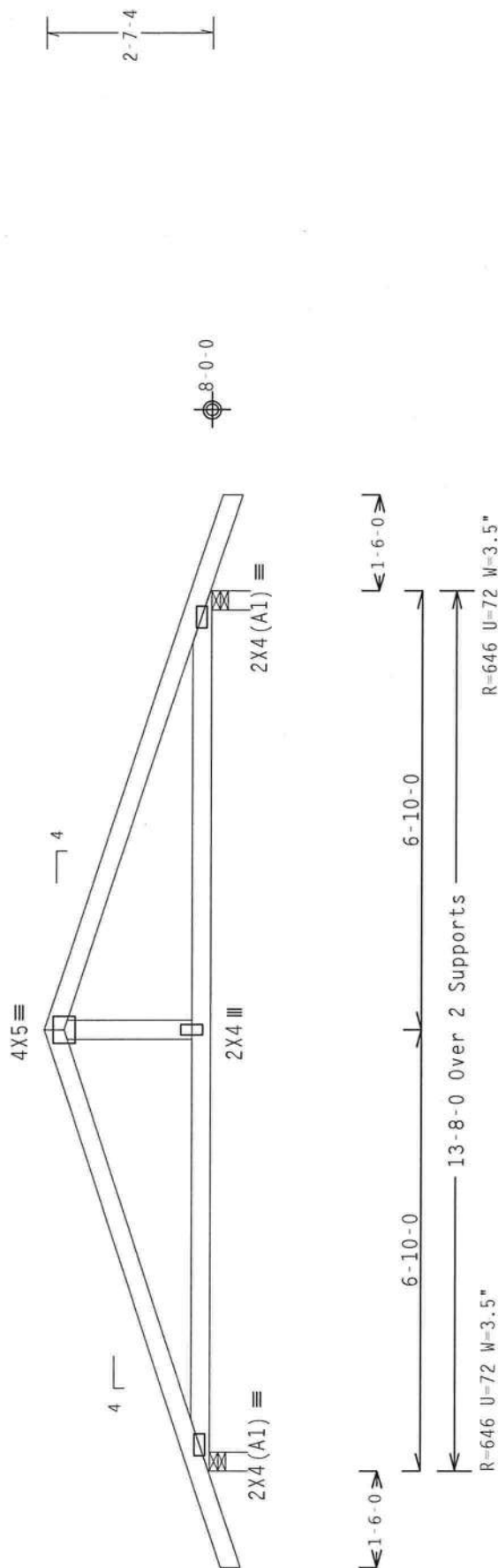
| Top | chord | 2x4 | SP | #2 | N |
|-----|-------|-----|----|----|---|
| Bot | chord | 2x4 | SP | #2 | N |
|     | webs  | 2x4 | SP | #2 | N |

1110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load.

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 2-7-4.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

00:00:00 QTY: 5

Scale = .375"/Ft.

**\*WARNING\*** THUSSES REQUIRING EXTREME CARE IN FABRICATION, SHIPPING, INSTALLING AND DRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304), AND AISC (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

|       |          |                  |
|-------|----------|------------------|
| TC LL | 20.0 PSF | REF R215-- 44018 |
| TC DL | 10.0 PSF | DATE 11/13/08    |

[illegible]

|          |          |     |                |             |
|----------|----------|-----|----------------|-------------|
| BC DL    | 10.0 PSF | DRW | HCUSR215       | 08318001    |
| BC LL    | 0.0 PSF  |     | HC-ENG DLJ/DLJ |             |
| TOT.LD.  | 40.0 PSF |     | SEQN-          | 151324      |
| DUR.FAC. | 1.25     |     | FROM           | LRB         |
| SPACING  | 24.0"    |     | JREF-          | 11M1215 701 |



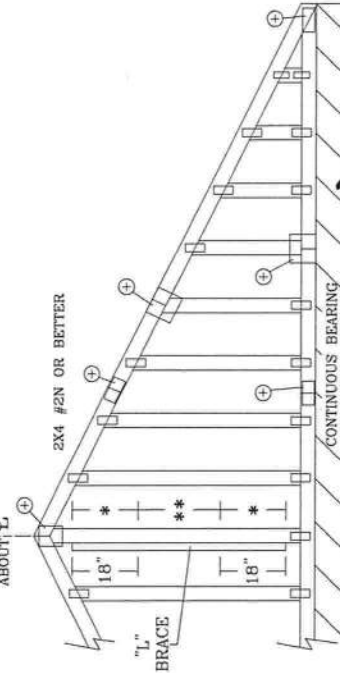
**ITW Building Components Group Inc.**  
Haines City, FL 33844  
FL COA #0 278

| 2X4<br>GABLE VERTICAL<br>SPACING SPECIES |     | BRACE    |         | NO<br>BRACES |        | (1) 1X4 "L" BRACE • |         |         | (1) 2X4 "L" BRACE • |         |         | (1) 2X6 "L" BRACE • |         |         | (2) 2X6 "L" BRACE • |        |  |
|------------------------------------------|-----|----------|---------|--------------|--------|---------------------|---------|---------|---------------------|---------|---------|---------------------|---------|---------|---------------------|--------|--|
|                                          |     | GRADE    | #1 / #2 |              |        | GROUP A             | GROUP B | GROUP A | GROUP B             | GROUP A | GROUP B | GROUP A             | GROUP B | GROUP A | GROUP B             |        |  |
| 16" O.C.                                 | SPF | #1       | 3' 10"  | 6' 8"        | 6' 10" | 7' 11"              | 8' 1"   | 9' 5"   | 9' 5"               | 9' 8"   | 12' 5"  | 12' 9"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          | HF  | #3       | 3' 9"   | 6' 0"        | 6' 0"  | 7' 11"              | 7' 11"  | 9' 5"   | 9' 5"               | 9' 5"   | 12' 4"  | 12' 4"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 3' 9"   | 6' 0"        | 6' 0"  | 7' 11"              | 7' 11"  | 9' 5"   | 9' 5"               | 9' 5"   | 12' 3"  | 12' 3"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STANDARD | 3' 9"   | 5' 2"        | 5' 2"  | 6' 9"               | 6' 9"   | 9' 1"   | 9' 1"               | 9' 1"   | 10' 7"  | 10' 7"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| 24" O.C.                                 | SP  | #1       | 4' 3"   | 6' 8"        | 7' 2"  | 7' 11"              | 8' 6"   | 9' 5"   | 10' 2"              | 12' 5"  | 13' 5"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #2       | 4' 2"   | 6' 8"        | 7' 2"  | 7' 11"              | 8' 6"   | 9' 5"   | 10' 2"              | 12' 5"  | 13' 5"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #3       | 4' 0"   | 6' 2"        | 6' 2"  | 7' 11"              | 8' 1"   | 9' 5"   | 9' 11"              | 12' 5"  | 12' 8"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 4' 0"   | 6' 1"        | 6' 1"  | 7' 11"              | 8' 0"   | 9' 5"   | 9' 11"              | 12' 5"  | 12' 6"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| 12" O.C.                                 | SPF | STANDARD | 3' 10"  | 5' 3"        | 5' 3"  | 6' 11"              | 6' 11"  | 9' 4"   | 10' 10"             | 11' 1"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #1 / #2  | 4' 5"   | 7' 8"        | 7' 10" | 9' 1"               | 9' 4"   | 10' 10" | 11' 1"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #3       | 4' 4"   | 7' 4"        | 7' 4"  | 9' 1"               | 9' 1"   | 10' 10" | 10' 10"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 4' 4"   | 7' 4"        | 7' 4"  | 9' 1"               | 9' 1"   | 10' 10" | 10' 10"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| 16" O.C.                                 | SP  | #1       | 4' 10"  | 7' 8"        | 8' 3"  | 9' 1"               | 9' 9"   | 10' 10" | 11' 8"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #2       | 4' 9"   | 7' 8"        | 8' 3"  | 9' 1"               | 9' 9"   | 10' 10" | 11' 8"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #3       | 4' 6"   | 7' 7"        | 7' 7"  | 9' 1"               | 9' 6"   | 10' 10" | 11' 4"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 4' 6"   | 7' 6"        | 7' 6"  | 9' 1"               | 9' 6"   | 10' 10" | 11' 4"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| 12" O.C.                                 | SPF | STANDARD | 4' 5"   | 6' 5"        | 6' 5"  | 8' 6"               | 8' 6"   | 10' 10" | 11' 1"              | 13' 3"  | 13' 3"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #1 / #2  | 4' 11"  | 8' 5"        | 8' 8"  | 10' 0"              | 10' 3"  | 11' 11" | 12' 3"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #3       | 4' 9"   | 8' 5"        | 8' 5"  | 10' 0"              | 10' 0"  | 11' 11" | 11' 11"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 4' 9"   | 8' 5"        | 8' 5"  | 10' 0"              | 10' 0"  | 11' 11" | 11' 11"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| 12" O.C.                                 | SP  | #1       | 5' 4"   | 8' 5"        | 9' 1"  | 10' 0"              | 10' 9"  | 11' 11" | 12' 10"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #2       | 5' 3"   | 8' 5"        | 9' 1"  | 10' 0"              | 10' 9"  | 11' 11" | 12' 10"             | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | #3       | 5' 0"   | 8' 5"        | 10' 0" | 10' 6"              | 10' 6"  | 11' 11" | 12' 6"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
|                                          |     | STUD     | 5' 0"   | 8' 5"        | 8' 7"  | 10' 0"              | 10' 6"  | 11' 11" | 12' 6"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0"  | 14' 0"  | 14' 0"              | 14' 0" |  |
| MAX GABLE VERTICAL LENGTH                |     |          |         |              |        |                     |         |         |                     |         |         |                     |         |         |                     |        |  |
|                                          |     |          |         |              |        |                     |         |         |                     |         |         |                     |         |         |                     |        |  |

DIAGONAL BRACE OPTION:  
VERTICAL LENGTH MAY BE  
DOUBLED WHEN DIAGONAL  
BRACE IS USED. CONNECT  
DIAGONAL BRACE FOR 600#  
AT EACH END. MAX WEB  
TOTAL LENGTH IS 14'

VERTICAL LENGTH SHOWN  
IN TABLE ABOVE.

CONNECT DIAGONAL AT  
MIDPOINT OF VERTICAL.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

\*\*\*WARNING\*\*\* TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. THESE TRUSSES ARE THE PROPERTY OF THE MANUFACTURER AND ARE NOT TO BE REUSED OR REERECTED WITHOUT THE WRITTEN PERMISSION OF THE MANUFACTURER. THESE TRUSSES ARE NOT TO BE USED IN ANY MANNER OTHER THAN THAT FOR WHICH THEY WERE DESIGNED. THESE TRUSSES ARE NOT TO BE USED IN ANY MANNER OTHER THAN THAT FOR WHICH THEY WERE DESIGNED. THESE TRUSSES ARE NOT TO BE USED IN ANY MANNER OTHER THAN THAT FOR WHICH THEY WERE DESIGNED.

**\*IMPORTANT\*** FURNISH COPY OF THIS DESIGN INSTALLATION CONTRACTORS ITV BEG INC SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD IN CONFORMANCE WITH TPI/D FABRICATING, HANDLING, SHIPPING, INSTALLING SPECIFIC BY AF&PAI AND TPI. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NIS NATIONAL DESIGN SPEC. BY AF&PAI AND TPI. GALV. STEEL CONNECTOR PLATES ARE MADE OF 207H/16GA 4W/H/SS/A3 ASTM A653 GRADE 40/60 C/K/H/SS) DESIGN POSITION PER DRAWINGS 160A-2Z. AN INSPECTION OF PLATES FOLLOWED BY CID SHALL BE PER ENGINEER'S SIGNATURE AND SEAL. THE USER ASSUMES ALL RISK AND ACCEPTANCE OF PROFESSIONAL DESIGNER'S RESPONSIBILITY FOR THESE COMPONENTS. THE TRUSS COMPONENTS SHALL BE USED IN ACCORDANCE WITH THE USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

ITW BUILDING COMPONENTS GROUP, INC.  
POMPANO BEACH, FLORIDA

ALPINE

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB11015

DATE 2/23/07

DRWG A11015EE0207

-ENG

| GABLE VERTICAL PLATE SIZES                  |                          |
|---------------------------------------------|--------------------------|
| VERTICAL LENGTH<br>LESS THAN 4' 0"          | NO SPLICES<br>1X4 OR 2X4 |
| GREATER THAN 4' 0", BUT<br>LESS THAN 11' 6" | 2X4                      |
| GREATER THAN 11' 6"                         | 2,5X4                    |

REFER TO COMMON TRUSS DESIGN FOR  
PEAK SPLICE AND HEEF PLATES

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER  
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, 0 PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d NAILS.

\* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C.

**\*\* FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C.**

IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.



# Summary Energy Code Results

## Residential Whole Building Performance Method A

354 SE Forest Terrace  
Lake City, FL 32025-

Project Title:  
Addition

Code Only  
Professional Version  
Climate: North

11/4/2008

| Building Loads |                     |            |                     |
|----------------|---------------------|------------|---------------------|
| Base           |                     | As-Built   |                     |
| Summer:        | <b>22357 points</b> | Summer:    | <b>18736 points</b> |
| Winter:        | <b>17593 points</b> | Winter:    | <b>14651 points</b> |
| Hot Water:     | <b>7273 points</b>  | Hot Water: | <b>7273 points</b>  |
| Total:         | <b>47223 points</b> | Total:     | <b>40659 points</b> |

| Energy Use |                     |            |                     |
|------------|---------------------|------------|---------------------|
| Base       |                     | As-Built   |                     |
| Cooling:   | <b>7266 points</b>  | Cooling:   | <b>4589 points</b>  |
| Heating:   | <b>9747 points</b>  | Heating:   | <b>6701 points</b>  |
| Hot Water: | <b>7905 points</b>  | Hot Water: | <b>7655 points</b>  |
| Total:     | <b>24918 points</b> | Total:     | <b>18945 points</b> |

**PASS**  
e-Ratio: 0.76