

DATE 11/05/2004

Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000022463

APPLICANT JOSEPH TURMAN PHONE 755-2054
 ADDRESS 192 SE TOMMIE LORD WAY LULU FL 32061
 OWNER JOSEPH TURMAN & PEGGY PARRISH PHONE 755-2054
 ADDRESS 295 SE RED CASON DRIVE LULU FL 32061
 CONTRACTOR JOSEPH TURMAN/ OWNER PHONE 755-2054

LOCATION OF PROPERTY HWY 100 TO LULU, R ON HWY 241, L ON RED CASON DR,
LOT ON TE CORNER OF HWY 241 AND RED CAON DR

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 67450.00

HEATED FLOOR AREA 1349.00 TOTAL AREA 1829.00 HEIGHT 18.00 STORIES 1

FOUNDATION CONCRETE WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO. _____

PARCEL ID 27-4S-18-10420-001 SUBDIVISION TOWN OF LULU, LOTS 8,9,10,11 & 12

LOT _____ BLOCK 12 PHASE _____ UNIT _____ TOTAL ACRES 1.26

OWNER Joseph S. Turman
 Culvert Permit No. _____ Culvert Waiver _____ Contractor's License Number _____ Applicant/Owner/Contractor
 EXISTING 04-0902-N BK HD N
 Driveway Connection _____ Septic Tank Number _____ LU & Zoning checked by _____ Approved for Issuance _____ New Resident _____

COMMENTS: NOC ON FILE
PARENT TRACT PARCEL NUMBER,PER PA OFFICE WILL ISSUE ANOTHER ON IN 6WKS
FLOOR 1 FOOT ABOVE THE ROAD Check # or Cash 104

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

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

BUILDING PERMIT FEE \$ 340.00 CERTIFICATION FEE \$ 9.14 SURCHARGE FEE \$ 9.14

MISC. FEES \$.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ _____ WASTE FEE \$ _____

FLOOD ZONE DEVELOPMENT FEE \$ _____ CULVERT FEE \$ _____ **TOTAL FEE** 408.28

INSPECTORS OFFICE J. Hol CLERKS OFFICE CH

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."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVENIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

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

Columbia County Building Permit Application

For Office Use Only Application # 0408.93 Date Received 8.20.04 By LH Permit # 22463
Application Approved by - Zoning Official BLK Date 05.11.04 Plans Examiner HD Date 11-5-04
Flood Zone X Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3
Comments Section 2.3.1 Legal Non-Conforming Lot of Record

Applicants Name Joseph G. Turman Phone 785-2054
Address 192 SE Tommie Lord Way Lulu FL 32061
Owners Name Joseph G. Turman and Peggy Parrish Phone SAME

911 Address
Contractors Name OWNER/Builder Phone SAME
Address SAME

Fee Simple Owner Name & Address
Bonding Co. Name & Address
Architect/Engineer Name & Address SJA - PE: APEX: WARREN CURRIGAN
Mortgage Lenders Name & Address N/A

Property ID Number 00-00-06-10420-001 Estimated Cost of Construction 100,000.
Subdivision Name Town of Lulu Lots 8,9,10,11+12 Lot Block 12 Unit Phase
Driving Directions Hwy 100 To Lulu, TURN RIGHT ON Hwy 241, TURN LEFT ON Red Cason Dr. Lot is on corner of Hwy 241 & Red Cason Dr.

Type of Construction Residential - SFD Number of Existing Dwellings on Property 0
Total Acreage 1.26 Lot Size 250'x220' Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 96' Side 50' Side 92' Rear 120'
Total Building Height 18' Number of Stories 1 Heated Floor Area 1349 Roof Pitch 8/12

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

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

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

Joseph G. Turman
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

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

Contractor Signature
Contractors License Number
Competency Card Number

NOTARY STAMP/SEAL
Notary Signature

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

Tax Parcel ID Number 00-00-00-10420-001

1. Description of property: (legal description of the property and street address or 911 address)

Tax ID. # 00-00-00-10420-001 Lots 8, 9, 10, 11 and 12
Blk. 12 Lulu Town site 1.76 Acres of Land

2. General description of improvement: Building a SED.

3. Owner Name & Address Peggy Parrish and Joseph G. Turman
192 SE Tommie Lord Way Lulu FL 33061 Interest in Property _____

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name Joseph G. Turman (owner) Phone Number 755-2054
Address 192 SE Tommie Lord Way Lulu FL 33061

6. Surety Holders Name _____ Phone Number _____
Address _____
Amount of Bond _____

7. Lender Name N/A Phone Number _____
Address _____

8. Persons within the State of Florida designated by or served as provided by section 718.13 (1)(a) 7; Florida:
Name _____ Inst: 2004019992 Date: 08/30/2004 Time: 12:06
_____ DC, P. DeWitt Cason, Columbia County B: 1024 P: 2243
Address _____

9. In addition to himself/herself the owner designates _____ of _____
_____ to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

NOTICE AS PER CHAPTER 713, Florida Statutes:

The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead.

Sworn to (or affirmed) and subscribed before day of 8-30, 2004

NOTARY STAMP/SEAL

Joseph G. Turman
Signature of Owner



Laurie Hodson
Signature of Notary

COLUMBIA COUNTY 9-1-1 ADDRESSING

263 NW Lake City Ave. * P. O. Box 2949 * Lake City, FL 32056-2949
PHONE: (386) 752-8787 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

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

DATE ISSUED: August 30, 2004

ENHANCED 9-1-1 ADDRESS:

295 SE RED CASON DR (LULU, FL 32061)

Addressed Location 911 Phone Number: NOT AVAIL.

OCCUPANT NAME: NOT AVAIL.

OCCUPANT CURRENT MAILING ADDRESS: _____

PROPERTY APPRAISER MAP SHEET NUMBER: 203

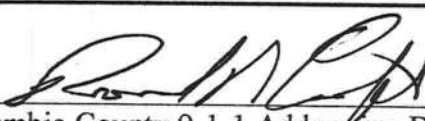
PROPERTY APPRAISER PARCEL NUMBER: 00-00-00-10420-001

Other Contact Phone Number (If any): _____

Building Permit Number (If known): _____

Remarks: _____

Address Issued By: _____

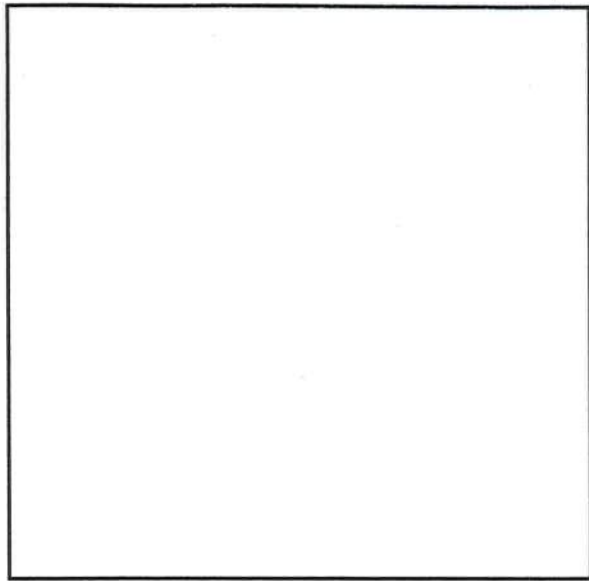

Columbia County 9-1-1 Addressing Department

COLUMBIA COUNTY
9-1-1 ADDRESSING
APPROVED

THIS INSTRUMENT PREPARED BY:

MARLIN M. FEAGLE, ESQUIRE
FEAGLE & FEAGLE, ATTORNEYS, P.A.
153 NE Madison Street
Post Office Box 1653
Lake City, Florida 32056-1653
(as to form only without benefit of title search)

Florida Bar No. 0173248



WARRANTY DEED

THIS INDENTURE, made this 2nd day of August, 2004, between
P. D. CASON, a single person, whose mailing address is Route 15, Box 3940, Lake City, Florida
32024, party of the first part, Grantor, and PEGGY PARRISH and JOE TURMAN, (each as to
an undivided one-half interest), whose mailing address is 192 SE Tommy Lord Way, Lulu,
Florida 32061, parties of the second part, Grantee,

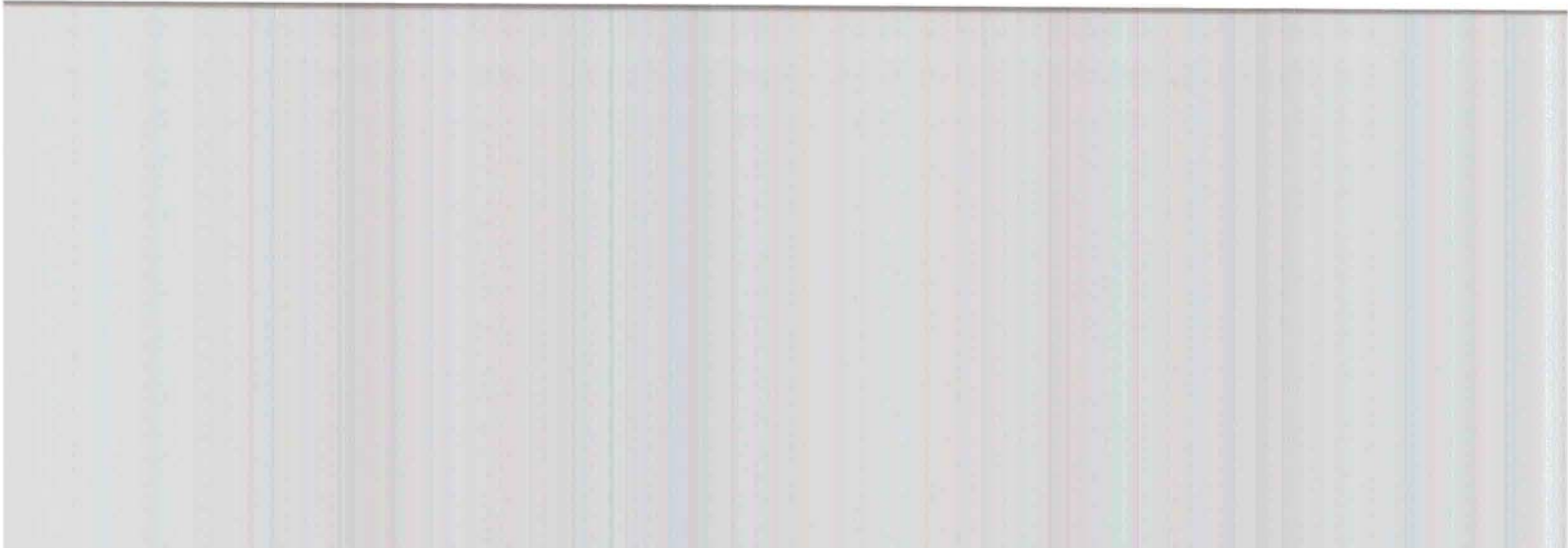
W I T N E S S E T H:

That said grantor, for and in consideration of the sum of **TEN AND NO/100** (\$10.00)
DOLLARS, and other good and valuable considerations to said grantor in hand paid by said
grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said
grantee, and grantee's heirs, successors and assigns forever, the following described land, situate,
lying and being in Columbia County, Florida, to-wit:

Lots 8, 9, 10, 11 and 12, Block 12 in the Town of Lulu, Florida.

Tax Parcel No.: 00-00-00-10420-001 (parent parcel)

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:

Margot DeVault
Witness

Margot DeVault
Print or type name

P. D. Cason (SEAL)
P. D. CASON

Diane S. Edenfield
Witness

DIANE S. EDENFIELD
Print or type name

**STATE OF FLORIDA
COUNTY OF COLUMBIA**

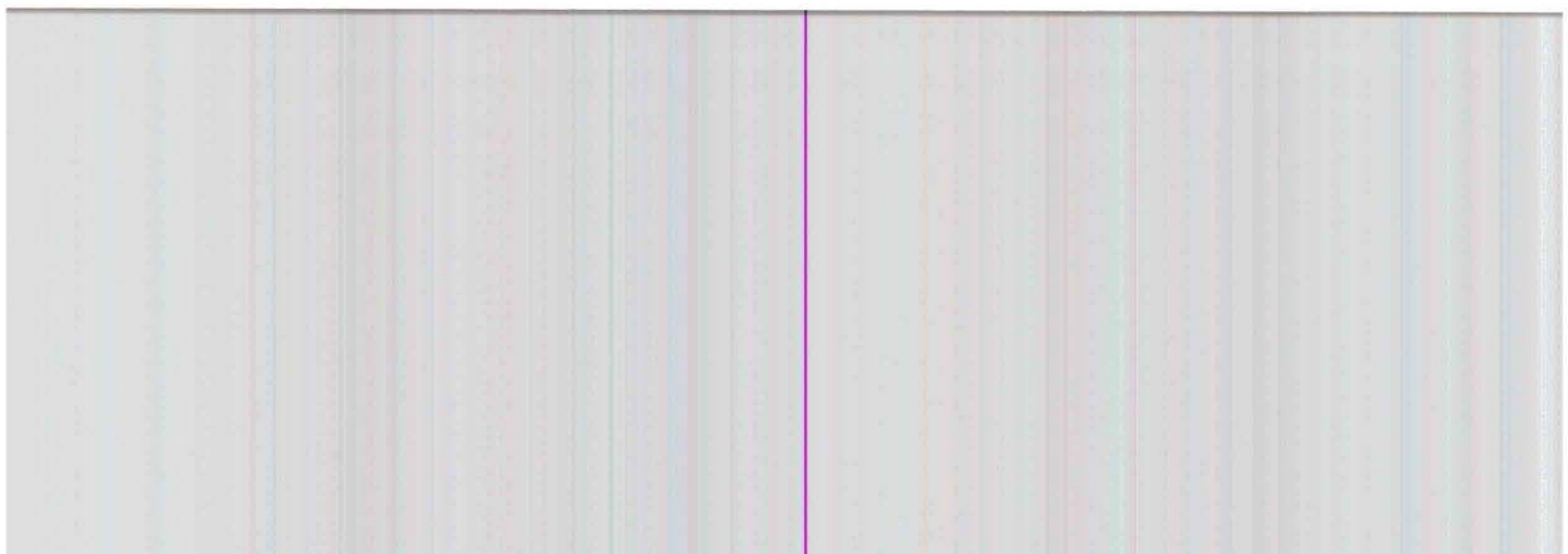
The foregoing instrument was acknowledged before me this 2nd day of August, 2004, by P. D. CASON who is personally known to me or who has produced a Florida driver's license as identification.

(NOTARIAL
SEAL)

Diane S. Edenfield
MY COMMISSION # DD112002 EXPIRES
May 24, 2006
BONDED THRU TROY FAIN INSURANCE, INC.

Diane S. Edenfield
Notary Public, State of Florida

My Commission Expires:





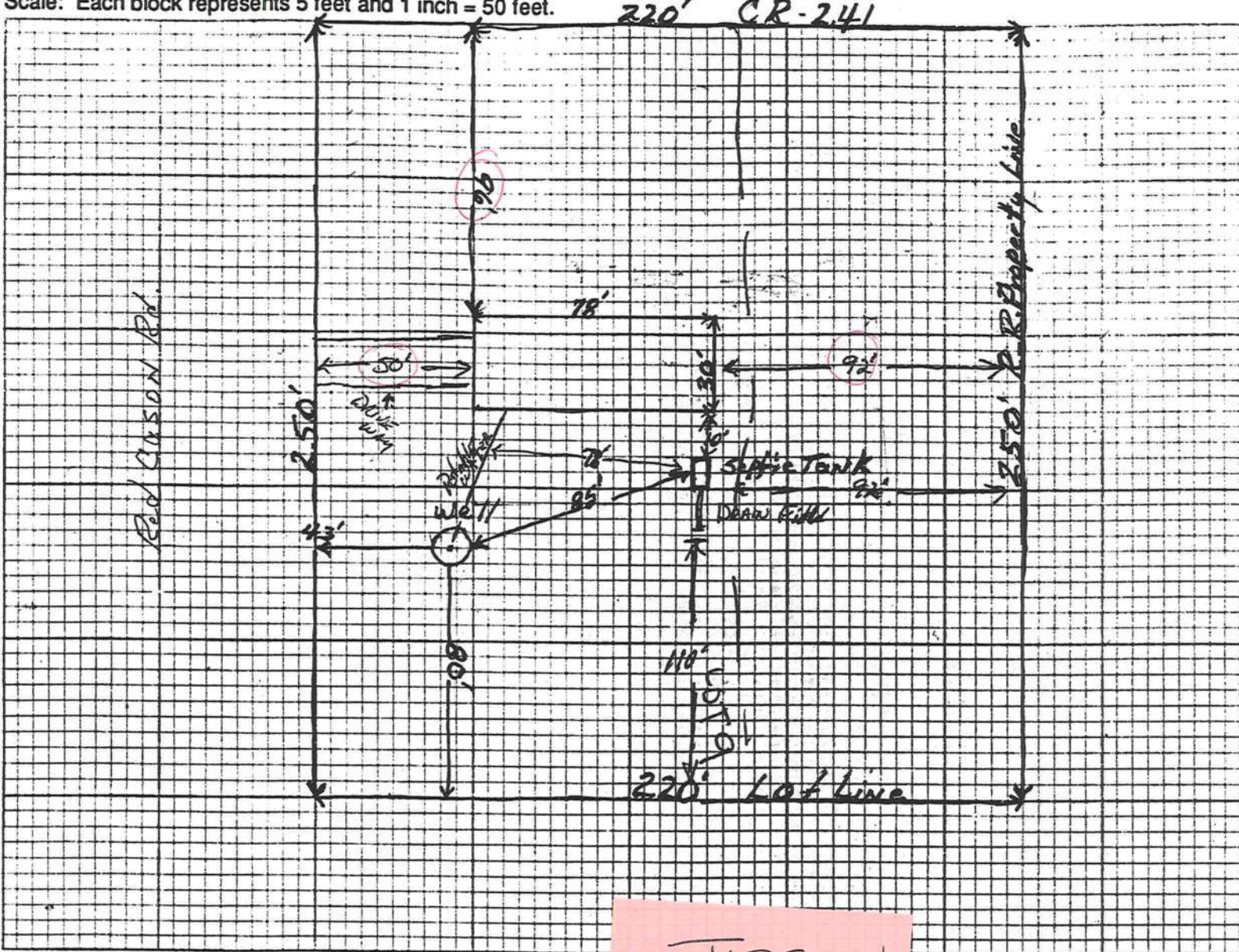
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 04-0902N

PART II - SITE PLAN

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



ADD TO JOE TURMAN
PACKAGE:
0408-93

Notes: _____

Site Plan submitted by: Joseph B. [Signature] Signature

Plan Approved Not Approved _____

By Solbi A. Grady - ES1 - COLUMBIA County Health Department

OWNER Title

Date 9-1-04

- ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DISCLOSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THEIR OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate the responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, building codes, and zoning regulations.

TYPE OF CONSTRUCTION

- (X) Single Family Dwelling
() Farm Outbuilding
() New Construction
() Two-Family Residence
() Other
() Addition, Alteration, Modification or other Improvement

NEW CONSTRUCTION OR IMPROVEMENT

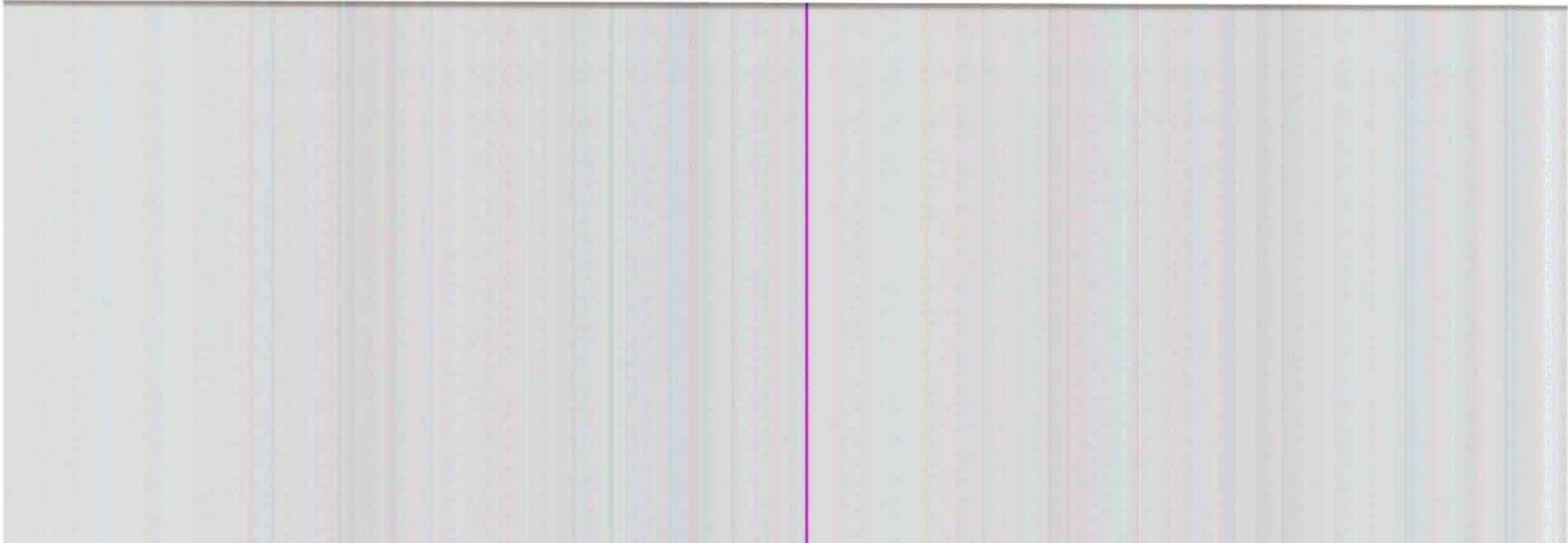
I Joseph G. TURMAN, have been advised of the above disclosure statement for exemption from contractor licensing as an owner/builder. I agree to comply with all requirements provided for in Florida Statutes ss.489.103(7) allowing this exception for the construction permitted by Columbia County Building Permit Number

Signature: Joseph G. Turman, Date: 8-14-04

FOR BUILDING USE ONLY

I hereby certify that the above listed owner/builder has been notified of the disclosure statement in Florida Statutes ss 489.103(7).

Date: 8-30-04 Building Official/Representative: [Signature]



FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: Joe Turman Residence Address: 192 SE Tommie Lord Way City, State: Lulu, FL 38061- Owner: Joe Turman Climate Zone: North	Builder: <i>Joseph Turman</i> Permitting Office: <i>Columbia Co.</i> Permit Number: <i>22463</i> Jurisdiction Number: <i>221000</i>
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<table style="width: 100%; border-collapse: collapse;"> <tr><td>1. New construction or existing</td><td style="text-align: right;">New</td><td style="text-align: right;">___</td></tr> <tr><td>2. Single family or multi-family</td><td style="text-align: right;">Single family</td><td style="text-align: right;">___</td></tr> <tr><td>3. Number of units, if multi-family</td><td style="text-align: right;">1</td><td style="text-align: right;">___</td></tr> <tr><td>4. Number of Bedrooms</td><td style="text-align: right;">3</td><td style="text-align: right;">___</td></tr> <tr><td>5. Is this a worst case?</td><td style="text-align: right;">Yes</td><td style="text-align: right;">___</td></tr> <tr><td>6. Conditioned floor area (ft²)</td><td style="text-align: right;">1829 ft²</td><td style="text-align: right;">___</td></tr> <tr><td>7. Glass area & type</td><td style="text-align: right;">Single Pane</td><td style="text-align: right;">Double Pane</td></tr> <tr><td> a. Clear glass, default U-factor</td><td style="text-align: right;">0.0 ft²</td><td style="text-align: right;">261.0 ft²</td></tr> <tr><td> b. Default tint</td><td style="text-align: right;">0.0 ft²</td><td style="text-align: right;">0.0 ft²</td></tr> <tr><td> c. Labeled U or SHGC</td><td style="text-align: right;">0.0 ft²</td><td style="text-align: right;">0.0 ft²</td></tr> <tr><td>8. Floor types</td><td></td><td></td></tr> <tr><td> a. Slab-On-Grade Edge Insulation</td><td style="text-align: right;">R=0.0, 225.0(p) ft</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>9. Wall types</td><td></td><td></td></tr> <tr><td> a. Frame, Wood, Exterior</td><td style="text-align: right;">R=13.0, 1807.0 ft²</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> d. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> e. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>10. Ceiling types</td><td></td><td></td></tr> <tr><td> a. Under Attic</td><td style="text-align: right;">R=30.0, 1829.0 ft²</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>11. Ducts</td><td></td><td></td></tr> <tr><td> a. Sup: Unc. Ret: Unc. AH: Interior</td><td style="text-align: right;">Sup. R=6.0, 72.0 ft</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> </table>	1. New construction or existing	New	___	2. Single family or multi-family	Single family	___	3. Number of units, if multi-family	1	___	4. Number of Bedrooms	3	___	5. Is this a worst case?	Yes	___	6. Conditioned floor area (ft ²)	1829 ft ²	___	7. Glass area & type	Single Pane	Double Pane	a. Clear glass, default U-factor	0.0 ft ²	261.0 ft ²	b. Default tint	0.0 ft ²	0.0 ft ²	c. Labeled U or SHGC	0.0 ft ²	0.0 ft ²	8. Floor types			a. Slab-On-Grade Edge Insulation	R=0.0, 225.0(p) ft	___	b. N/A		___	c. N/A		___	9. Wall types			a. Frame, Wood, Exterior	R=13.0, 1807.0 ft ²	___	b. N/A		___	c. N/A		___	d. N/A		___	e. N/A		___	10. Ceiling types			a. Under Attic	R=30.0, 1829.0 ft ²	___	b. N/A		___	c. N/A		___	11. Ducts			a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 72.0 ft	___	b. N/A		___	<table style="width: 100%; border-collapse: collapse;"> <tr><td>12. Cooling systems</td><td></td><td></td></tr> <tr><td> a. Central Unit</td><td style="text-align: right;">Cap: 36.0 kBtu/hr</td><td style="text-align: right;">___</td></tr> <tr><td></td><td style="text-align: right;">SEER: 10.00</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>13. Heating systems</td><td></td><td></td></tr> <tr><td> a. Electric Heat Pump</td><td style="text-align: right;">Cap: 36.0 kBtu/hr</td><td style="text-align: right;">___</td></tr> <tr><td></td><td style="text-align: right;">HSPF: 6.80</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>14. Hot water systems</td><td></td><td></td></tr> <tr><td> a. Electric Resistance</td><td style="text-align: right;">Cap: 50.0 gallons</td><td style="text-align: right;">___</td></tr> <tr><td></td><td style="text-align: right;">EF: 0.92</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. Conservation credits</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> (HR-Heat recovery, Solar</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> DHP-Dedicated heat pump)</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>15. HVAC credits</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> (CF-Ceiling fan, CV-Cross ventilation,</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> HF-Whole house fan,</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> PT-Programmable Thermostat,</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> MZ-C-Multizone cooling,</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> MZ-H-Multizone heating)</td><td></td><td style="text-align: right;">___</td></tr> </table>	12. Cooling systems			a. Central Unit	Cap: 36.0 kBtu/hr	___		SEER: 10.00	___	b. N/A		___	c. N/A		___	13. Heating systems			a. Electric Heat Pump	Cap: 36.0 kBtu/hr	___		HSPF: 6.80	___	b. N/A		___	c. N/A		___	14. Hot water systems			a. Electric Resistance	Cap: 50.0 gallons	___		EF: 0.92	___	b. N/A		___	c. Conservation credits		___	(HR-Heat recovery, Solar		___	DHP-Dedicated heat pump)		___	15. HVAC credits		___	(CF-Ceiling fan, CV-Cross ventilation,		___	HF-Whole house fan,		___	PT-Programmable Thermostat,		___	MZ-C-Multizone cooling,		___	MZ-H-Multizone heating)		___
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c. N/A		___																																																																																																																																																					
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a. Frame, Wood, Exterior	R=13.0, 1807.0 ft ²	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
c. N/A		___																																																																																																																																																					
d. N/A		___																																																																																																																																																					
e. N/A		___																																																																																																																																																					
10. Ceiling types																																																																																																																																																							
a. Under Attic	R=30.0, 1829.0 ft ²	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
c. N/A		___																																																																																																																																																					
11. Ducts																																																																																																																																																							
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 72.0 ft	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
12. Cooling systems																																																																																																																																																							
a. Central Unit	Cap: 36.0 kBtu/hr	___																																																																																																																																																					
	SEER: 10.00	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
c. N/A		___																																																																																																																																																					
13. Heating systems																																																																																																																																																							
a. Electric Heat Pump	Cap: 36.0 kBtu/hr	___																																																																																																																																																					
	HSPF: 6.80	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
c. N/A		___																																																																																																																																																					
14. Hot water systems																																																																																																																																																							
a. Electric Resistance	Cap: 50.0 gallons	___																																																																																																																																																					
	EF: 0.92	___																																																																																																																																																					
b. N/A		___																																																																																																																																																					
c. Conservation credits		___																																																																																																																																																					
(HR-Heat recovery, Solar		___																																																																																																																																																					
DHP-Dedicated heat pump)		___																																																																																																																																																					
15. HVAC credits		___																																																																																																																																																					
(CF-Ceiling fan, CV-Cross ventilation,		___																																																																																																																																																					
HF-Whole house fan,		___																																																																																																																																																					
PT-Programmable Thermostat,		___																																																																																																																																																					
MZ-C-Multizone cooling,		___																																																																																																																																																					
MZ-H-Multizone heating)		___																																																																																																																																																					

Glass/Floor Area: 0.14	Total as-built points: 28046	PASS
	Total base points: 28659	

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

PREPARED BY: William H. Freeman


DATE: 11-2-04

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: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X SPM X SOF = Points			
.18	1829.0	20.04	6597.6	Double, Clear	SE	2.0	7.0	72.0	42.75	0.85	2611.7
				Double, Clear	SE	2.0	6.0	15.0	42.75	0.80	514.6
				Double, Clear	NW	2.0	6.0	45.0	25.97	0.87	1021.7
				Double, Clear	SW	2.0	6.0	45.0	40.16	0.80	1454.6
				Double, Clear	NE	2.0	6.0	60.0	29.56	0.86	1530.9
				Double, Clear	NE	2.0	5.0	24.0	29.56	0.82	581.2
				As-Built Total:				261.0	7714.7		
WALL TYPES											
Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0			1807.0	1.50		2710.5
Exterior	1807.0	1.70	3071.9								
Base Total:				As-Built Total:				1807.0	2710.5		
DOOR TYPES											
Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Adjacent	20.0	2.40	48.0	Exterior Insulated				19.0	4.10		77.9
Exterior	59.0	6.10	359.9	Exterior Insulated				40.0	4.10		164.0
				Adjacent Insulated				20.0	1.60		32.0
Base Total:				As-Built Total:				79.0	273.9		
CEILING TYPES											
Area X BSPM = Points				Type	R-Value			Area X SPM X SCM = Points			
Under Attic	1829.0	1.73	3164.2	Under Attic	30.0			1829.0	1.73 X 1.00		3164.2
Base Total:				As-Built Total:				1829.0	3164.2		
FLOOR TYPES											
Area X BSPM = Points				Type	R-Value			Area X SPM = Points			
Slab	225.0(p)	-37.0	-8325.0	Slab-On-Grade Edge Insulation	0.0			225.0(p)	-41.20		-9270.0
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:				225.0	-9270.0		
INFILTRATION											
Area X BSPM = Points							Area X SPM = Points				
	1829.0	10.21	18674.1				1829.0	10.21		18674.1	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points:		23590.6		Summer As-Built Points:			23267.4			
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	=	Cooling Points
23590.6	0.4266		10063.8	23267.4 23267.4	1.000 1.00	(1.090 x 1.147 x 0.91) 1.138	0.341 0.341	1.000 1.000		9034.7 9034.7

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt			Area X WPM X WOF = Points			
.18	1829.0	12.74	4194.3	Double, Clear	SE	2.0	7.0	72.0	14.71	1.13	1193.5
				Double, Clear	SE	2.0	6.0	15.0	14.71	1.18	259.2
				Double, Clear	NW	2.0	6.0	45.0	24.30	1.01	1100.6
				Double, Clear	SW	2.0	6.0	45.0	16.74	1.11	838.3
				Double, Clear	NE	2.0	6.0	60.0	23.57	1.01	1432.0
				Double, Clear	NE	2.0	5.0	24.0	23.57	1.02	575.6
				As-Built Total:			261.0		5399.3		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0		1807.0	3.40		6143.8	
Exterior	1807.0	3.70	6685.9								
Base Total:				As-Built Total:			1807.0		6143.8		
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	20.0	11.50	230.0	Exterior Insulated			19.0	8.40		159.6	
Exterior	59.0	12.30	725.7	Exterior Insulated			40.0	8.40		336.0	
				Adjacent Insulated			20.0	8.00		160.0	
Base Total:				As-Built Total:			79.0		655.6		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1829.0	2.05	3749.4	Under Attic	30.0		1829.0	2.05 X 1.00		3749.4	
Base Total:				As-Built Total:			1829.0		3749.4		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	225.0(p)	8.9	2002.5	Slab-On-Grade Edge Insulation	0.0		225.0(p)	18.80		4230.0	
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:			225.0		4230.0		
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
							1829.0		-0.59		-1079.1

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-	PERMIT #:
---	-----------

BASE				AS-BUILT					
Winter Base Points:		16508.7		Winter As-Built Points:			19099.0		
Total Winter Points	X System Multiplier	= Heating Points		Total Component	X Cap Ratio	X Duct Multiplier <small>(DM x DSM x AHU)</small>	X System Multiplier	X Credit Multiplier	= Heating Points
16508.7	0.6274	10357.6		19099.0	1.000	<small>(1.069 x 1.169 x 0.93)</small>	0.501	1.000	11131.0
				19099.0	1.00	1.162	0.501	1.000	11131.0

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-

PERMIT #:

BASE				AS-BUILT								
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	=	Total
3		2746.00		8238.0	50.0	0.92	3		1.00	2626.61	1.00	7879.8
											As-Built Total:	7879.8

CODE COMPLIANCE STATUS													
BASE					AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
10064		10358		8238		28659	9035		11131		7880		28046

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 192 SE Tommie Lord Way, Lulu, FL, 38061-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 82.8

The higher the score, the more efficient the home.

Joe Turman, 192 SE Tommie Lord Way, Lulu, FL, 38061-

<p>1. New construction or existing New <input type="checkbox"/></p> <p>2. Single family or multi-family Single family <input type="checkbox"/></p> <p>3. Number of units, if multi-family 1 <input type="checkbox"/></p> <p>4. Number of Bedrooms 3 <input type="checkbox"/></p> <p>5. Is this a worst case? Yes <input type="checkbox"/></p> <p>6. Conditioned floor area (ft²) 1829 ft² <input type="checkbox"/></p> <p>7. Glass area & type</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"></td> <td style="width: 15%; text-align: center;">Single Pane</td> <td style="width: 15%; text-align: center;">Double Pane</td> <td style="width: 5%;"></td> </tr> <tr> <td>a. Clear - single pane</td> <td style="text-align: center;">0.0 ft²</td> <td style="text-align: center;">261.0 ft²</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>b. Clear - double pane</td> <td style="text-align: center;">0.0 ft²</td> <td style="text-align: center;">0.0 ft²</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>c. Tint/other SHGC - single pane</td> <td style="text-align: center;">0.0 ft²</td> <td style="text-align: center;">0.0 ft²</td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>d. Tint/other SHGC - double pane</td> <td></td> <td></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> <p>8. Floor types</p> <p>a. Slab-On-Grade Edge Insulation R=0.0, 225.0(p) ft <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p>a. Frame, Wood, Exterior R=13.0, 1807.0 ft² <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>d. N/A <input type="checkbox"/></p> <p>e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p>a. Under Attic R=30.0, 1829.0 ft² <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p>a. Sup: Unc. Ret: Unc. AH: Interior Sup. R=6.0, 72.0 ft <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p>		Single Pane	Double Pane		a. Clear - single pane	0.0 ft ²	261.0 ft ²	<input type="checkbox"/>	b. Clear - double pane	0.0 ft ²	0.0 ft ²	<input type="checkbox"/>	c. Tint/other SHGC - single pane	0.0 ft ²	0.0 ft ²	<input type="checkbox"/>	d. Tint/other SHGC - double pane			<input type="checkbox"/>	<p>12. Cooling systems</p> <p>a. Central Unit Cap: 36.0 kBtu/hr <input type="checkbox"/> SEER: 10.00 <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p>a. Electric Heat Pump Cap: 36.0 kBtu/hr <input type="checkbox"/> HSPF: 6.80 <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p>a. Electric Resistance Cap: 50.0 gallons <input type="checkbox"/> EF: 0.92 <input type="checkbox"/></p> <p>b. N/A <input type="checkbox"/></p> <p>c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) <input type="checkbox"/></p> <p>15. HVAC credits <input type="checkbox"/></p> <p>(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
	Single Pane	Double Pane																			
a. Clear - single pane	0.0 ft ²	261.0 ft ²	<input type="checkbox"/>																		
b. Clear - double pane	0.0 ft ²	0.0 ft ²	<input type="checkbox"/>																		
c. Tint/other SHGC - single pane	0.0 ft ²	0.0 ft ²	<input type="checkbox"/>																		
d. Tint/other SHGC - double pane			<input type="checkbox"/>																		

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 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 Energy Gauge Office. Version: FLRCPB v3.30)*

BUILDING INPUT SUMMARY REPORT

PROJECT	Title: Joe Turman Residence		Family Type: Single		Address Type: Street Address			
	Owner: Joe Turman		New/Existing: New		Lot #: N/A			
	# of Units: 1		Bedrooms: 3		Subdivision: N/A			
	Builder Name: (blank)		Conditioned Area: 1829		Platbook: N/A			
	Climate: North		Total Stories: 1		Street: 192 SE Tommie Lord Way			
	Permit Office: (blank)		Worst Case: Yes		County: Columbia			
	Jurisdiction #: (blank)		Rotate Angle: (blank)		City, St, Zip: Lulu, FL, 38061-			
	FLOORS	#	Floor Type	R-Val	Area/Perimeter	Units		
		1	Slab-On-Grade Edge Insulation	0.0	225.0(p) ft	1		
	DOORS	#	Door Type	Orientation	Area	Units		
1 2 3		Insulated Insulated Insulated	Exterior Exterior Adjacent	19.0 ft² 20.0 ft² 20.0 ft²	1 2 1			
CEILING	#	Ceiling Type	R-Val	Area	Base Area	Units		
	1	Under Attic	30.0	1829.0 ft²	1829.0 ft²	1		
Credit Multipliers: None								
COOLING	#	System Type	Efficiency	Capacity				
	1	Central Unit	SEER: 10.00	36.0 kBtu/hr				
Credit Multipliers: None								
WALLS	#	Wall Type	Location	R-Val	Area	Units		
	1	Frame - Wood	Exterior	13.0	1807.0 ft²	1		
HEATING	#	System Type	Efficiency	Capacity				
	1	Electric Heat Pump	HSPF: 6.80	36.0 kBtu/hr				
Credit Multipliers: None								
WINDOWS	#	Panes	Tint	Ornt	Area	OH Length	OH Hght	Units
	1	Double	Clear	N	18.0 ft²	2.0 ft	7.0 ft	4
	2	Double	Clear	N	15.0 ft²	2.0 ft	6.0 ft	1
	3	Double	Clear	S	15.0 ft²	2.0 ft	6.0 ft	3
	4	Double	Clear	E	15.0 ft²	2.0 ft	6.0 ft	3
	5	Double	Clear	W	15.0 ft²	2.0 ft	6.0 ft	4
	6	Double	Clear	W	12.0 ft²	2.0 ft	5.0 ft	2
DUCTS	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length		
	1	Uncond.	Uncond.	Interior	6.0	72.0 ft		
Credit Multipliers: None								
WATER	#	System Type	EF	Cap.	Conservation Type	Con. EF		
	1	Electric Resistance	0.92	50.0	None	0.00		
REFR.	#	Use Default?	Annual Operating Cost	Electric Rate				
	1	Yes	N/A	N/A				
MISC	Rater Name: CodeOnlyPro		Class #: 3		Pool Size: 0			
	Rater Certification #: CodeOnlyPro		Duct Leakage Type: N/A		Pump Size: 0.00 hp			
	Area Under Fluorescent: 0.0		Visible Duct Disconnects: N/A		Dryer Type: Electric			
	Area Under Incandescent: 1829.0		Leak Free Duct System Proposed: No		Stove Type: Electric			
	NOTE: Not all Rating info shown		HRV/ERV System Present?: No		Avg Ceil Hgt: 10			

System Sizing Calculations - Winter

Residential Load - Component Details

Joe Turman
192 SE Tommie Lord Way
Lulu, FL 38061-

Project Title:
Joe Turman Residence

Code Only
Professional Version
Climate: North

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

11/2/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	72.0	28.3	2038 Btuh
2	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
3	2, Clear, Metal, DEF	S	45.0	28.3	1274 Btuh
4	2, Clear, Metal, DEF	E	45.0	28.3	1274 Btuh
5	2, Clear, Metal, DEF	W	60.0	28.3	1698 Btuh
6	2, Clear, Metal, DEF	W	24.0	28.3	679 Btuh
Window Total			261		7386 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1807	3.1	5602 Btuh
Wall Total			1807		5602 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		19	18.3	348 Btuh
2	Insulated - Exter		40	18.3	733 Btuh
3	Insulated - Adjac		20	9.4	188 Btuh
Door Total			79		1269 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1829	1.3	2378 Btuh
Ceiling Total			1829		2378 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	225.0 ft(p)	31.6	7110 Btuh
Floor Total			225		7110 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	18290(sqft)	122	5241 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				122	5241 Btuh

Totals for Heating	Subtotal	28987 Btuh
	Duct Loss(using duct multiplier of 0.05)	1449 Btuh
	Total Btuh Loss	30436 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)

Residential System Sizing Calculation

Summary

Joe Turman
192 SE Tommie Lord Way
Lulu, FL 38061-

Project Title:
Joe Turman Residence

Code Only
Professional Version
Climate: North

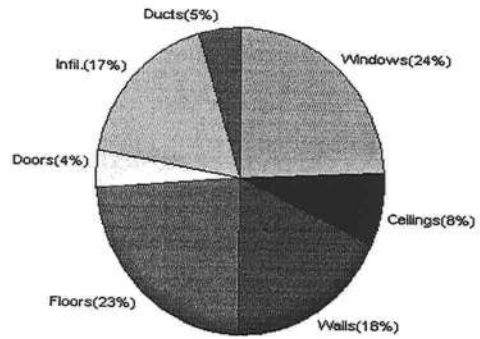
11/2/2004

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
Total heating load calculation	30436 Btuh	Total cooling load calculation	28702 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.3 36000	Sensible (SHR = 0.5)	76.2 18000
Heat Pump + Auxiliary(0.0kW)	118.3 36000	Latent	353.8 18000
		Total (Electric Heat Pump)	125.4 36000

WINTER CALCULATIONS

Winter Heating Load (for 1829 sqft)

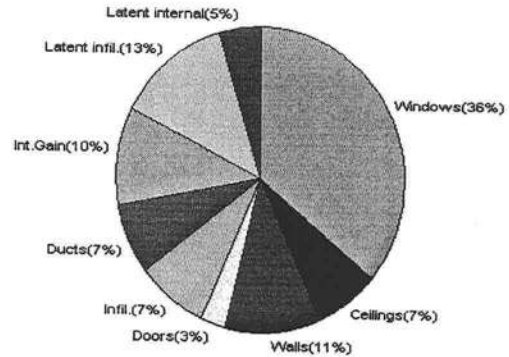
Load component		Load	
Window total	261 sqft	7386	Btuh
Wall total	1807 sqft	5602	Btuh
Door total	79 sqft	1269	Btuh
Ceiling total	1829 sqft	2378	Btuh
Floor total	225 ft	7110	Btuh
Infiltration	122 cfm	5241	Btuh
Subtotal		28987	Btuh
Duct loss		1449	Btuh
TOTAL HEAT LOSS		30436	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1829 sqft)

Load component		Load	
Window total	261 sqft	10358	Btuh
Wall total	1807 sqft	3144	Btuh
Door total	79 sqft	801	Btuh
Ceiling total	1829 sqft	2048	Btuh
Floor total		0	Btuh
Infiltration	107 cfm	2117	Btuh
Internal gain		3000	Btuh
Subtotal(sensible)		21468	Btuh
Duct gain		2147	Btuh
Total sensible gain		23615	Btuh
Latent gain(infiltration)		3707	Btuh
Latent gain(internal)		1380	Btuh
Total latent gain		5087	Btuh
TOTAL HEAT GAIN		28702	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Summer

Residential Load - Component Details

Joe Turman
192 SE Tommie Lord Way
Lulu, FL 38061-

Project Title:
Joe Turman Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F

11/2/2004

Window	Type			Overhang		Window Area(sqft)			HTM		Load
	Panes/SHGC/U/InSh/ExSh	Ornt		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, DEF, N, N	N		2	7	72.0	0.0	72.0	22	22	1584 Btuh
2	2, Clear, DEF, N, N	N		2	6	15.0	0.0	15.0	22	22	330 Btuh
3	2, Clear, DEF, N, N	S		2	6	45.0	45.0	0.0	22	37	990 Btuh
4	2, Clear, DEF, N, N	E		2	6	45.0	12.5	32.6	22	72	2618 Btuh
5	2, Clear, DEF, N, N	W		2	6	60.0	16.6	43.4	22	72	3490 Btuh
6	2, Clear, DEF, N, N	W		2	5	24.0	7.6	16.4	22	72	1346 Btuh
Window Total						261					10358 Btuh
Walls	Type	R-Value			Area			HTM		Load	
1	Frame - Exterior	13.0			1807.0			1.7		3144 Btuh	
Wall Total					1807.0					3144 Btuh	
Doors	Type	R-Value			Area			HTM		Load	
1	Insulated - Exter				19.0			10.1		193 Btuh	
2	Insulated - Exter				40.0			10.1		406 Btuh	
3	Insulated - Adjac				20.0			10.1		203 Btuh	
Door Total					79.0					801 Btuh	
Ceilings	Type/Color	R-Value			Area			HTM		Load	
1	Under Attic/Light	30.0			1829.0			1.1		2048 Btuh	
Ceiling Total					1829.0					2048 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab-On-Grade Edge Insulation	0.0			225.0 ft(p)			0.0		0 Btuh	
Floor Total					225.0					0 Btuh	
Infiltration	Type	ACH			Volume			CFM=		Load	
	Natural	0.35			18290			106.9		2117 Btuh	
	Mechanical							0		0 Btuh	
Infiltration Total								107		2117 Btuh	

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	6	X 300 +	1200	3000 Btuh

Totals for Cooling	Subtotal	21468 Btuh
	Duct gain(using duct multiplier of 0.10)	2147 Btuh
	Total sensible gain	23615 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	3707 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	28702 Btuh

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

CHERRYBROOK ENGINEERS & ARCHITECTS P.A.

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 27-4S-18-10464-108

Building permit No. 000022463

Use Classification SFD, UTILITY

Fire: 17.01

Permit Holder JOSEPH TURMAN/ OWNER

Waste: 36.75

Owner of Building JOSEPH TURMAN & PEGGY PARRISH

Total: 53.76

Location: 295 SE RD CASON DRIVE, LULU, FL 32061



Date: 06/22/2005

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)