

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only: Application # 0663-98 Date Received 3-27-06 By LH Permit # 1091/24587
 Application Approved by - Zoning Official BLK Date 3/03/06 Plans Examiner OK JH Date 6-31-06
 Flood Zone X Revised Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den.
 Comments Surveyors

Alachua Lake Parcel 02008 Flood Elevation 104' 135' Floor 105'

Applicants Name Linda Roder Phone 752-2281
 Address 387 S.W. Kemp Ct. Lake City FL 32024
 Owners Name Rob Stewart L.C. Phone 867-2059
 911 Address 172 SE Woodhaven Lake City FL 32025
 Contractors Name Rob Stewart Phone 867-2059
 Address 507 W. Duval St. Lake City FL 32055
 Fee Simple Owner Name & Address NA
 Bonding Co. Name & Address NA
 Architect/Engineer Name & Address Will Myers / Mark Disosway
 Mortgage Lenders Name & Address CCB

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

Property ID Number 09-45-17-08302-009 Estimated Cost of Construction 95,000

Subdivision Name Deerwood Forest Lot 9 Block Unit 1 Phase

Driving Directions: Hwy 90 East Ron Country Club, Cross Bay 9,
Turn R on Woodhaven, 2nd on Left.

Type of Construction SFD Number of Existing Dwellings on Property 0
 Total Acreage .86 Lot Size Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive
 Actual Distance of Structure from Property Lines - Front 50' Side 26'11" Side 25'9" Rear 22'10"
 Total Building Height 16'-7" Number of Stories 1 Heated Floor Area 1407 Roof Pitch 6-12
Porch 267 GARAGE 438 TOTAL 2112

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.

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
 COUNTY OF COLUMBIA



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

Sworn to (or affirmed) and subscribed before me this 20 day of

Personally known or Produced Identification

Contractor Signature

Contractors License Number

Competency Card Number CBC 1252898

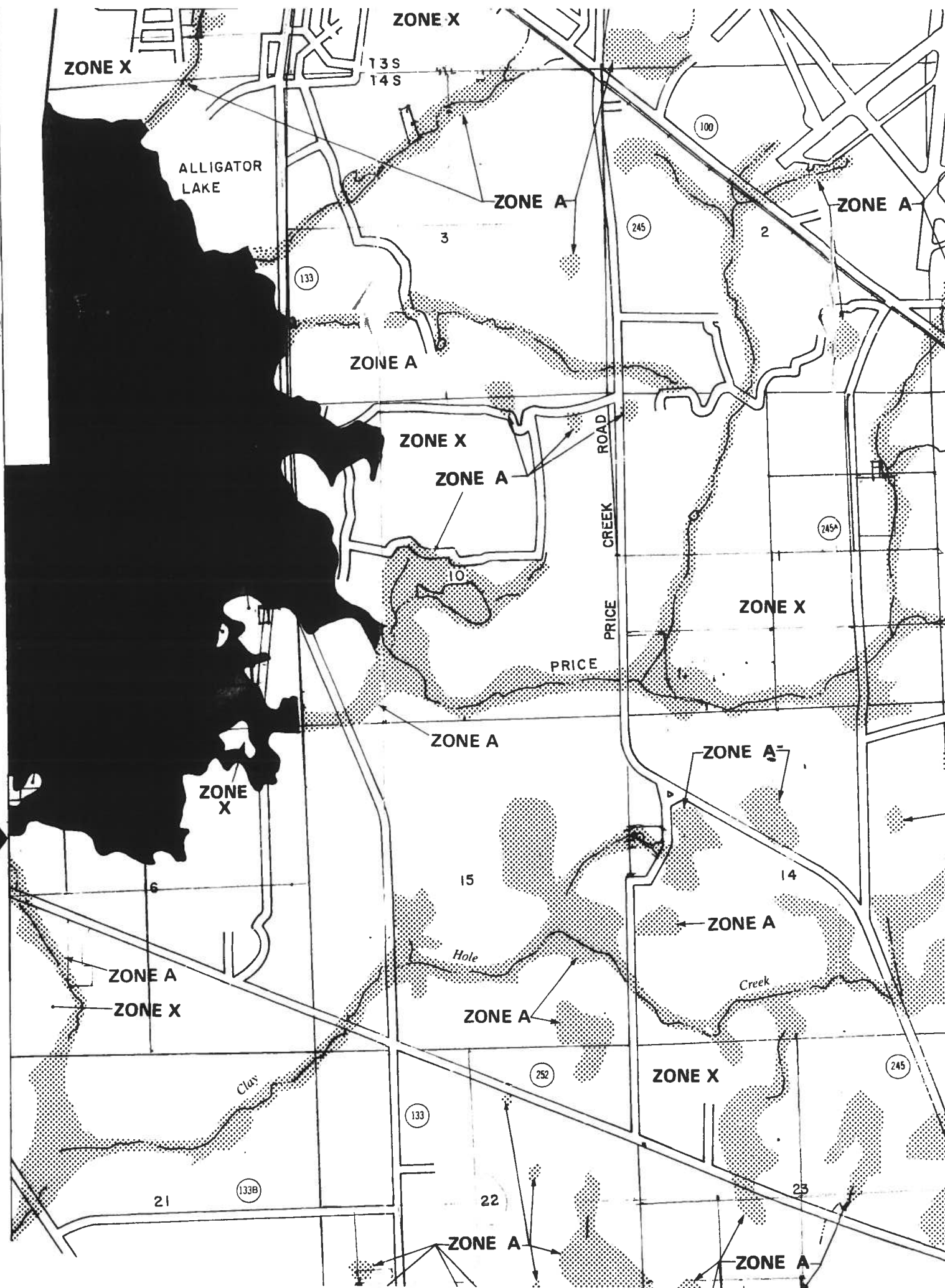
NOTARY STAMP/SEAL

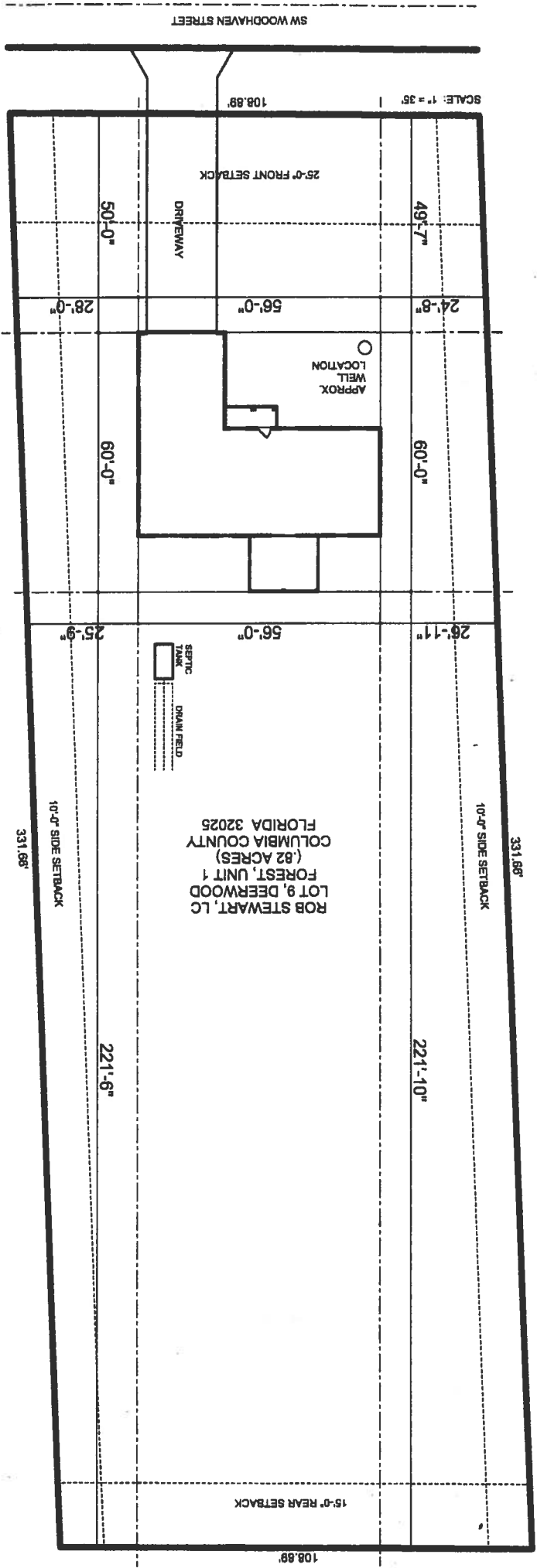
Notary Signature

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Columbia County Property Appraiser

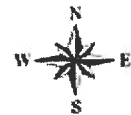
J. Doyle Crews, CFA - Lake City, Florida - 386-758-1083

PARCEL: 09-4S-17-08302-009 - VACANT (000000)

LOT 9 DEERWOOD FOREST UNIT 1. ORB 451-76, WD 1041-2603. WD 1071-1579.

Name: ROB STEWART LC	LandVal	\$19,500.00
Site: DEERWOOD FOREST I	BldgVal	\$0.00
PO BOX 2708	ApprVal	\$19,500.00
Mail: LAKE CITY, FL 32056	JustVal	\$19,500.00
Sales 1/6/2006 \$28,000.00 V / Q	Assd	\$19,500.00
Info 2/28/2005 \$18,900.00 V / U	Exmpt	\$0.00
	Taxable	\$19,500.00

0 250 500 750 ft



This information, GIS Map Updated: 2/7/2006, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

This Instrument Prepared by & return to:

Name: Chris Travis, an employee of
TITLE OFFICES, LLC
Address: 1089 SW MAIN BLVD.
LAKE CITY, FLORIDA 32025
File No. 05Y-12049CT

Inst: 2006001394 Date: 01/19/2006 Time: 13:00

Doc Stamp-Deed : 196.00

mk DC, P. DeWitt Cason, Columbia County B: 1071 P: 1579

Parcel I.D. #: 08302-009

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

THIS WARRANTY DEED Made the 6th day of January, A.D. 2006, by

STEVE FERRIE and CINDY FERRIE, HIS WIFE, hereinafter called the grantors, to

ROB STEWART, LC, having its principal place of business at
(a Florida Corporation)
P.O. BOX 2708, LAKE CITY, FL 32056, hereinafter called the grantee:

(Wherever used herein the terms "grantors" and "grantee" include all the parties to this instrument, singular and plural, the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.)

Witnesseth: That the grantors, for and in consideration of the sum of \$10.00 and other valuable consideration, receipt whereof is hereby acknowledged, do hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the grantee all that certain land situate in **Columbia County, State of FLORIDA**, viz:

Parcel 9, DEERWOOD FOREST, Unit 1, according to the map or plat thereof as recorded in Plat Book 4, Page 62, of the Public Records of Columbia County, FLORIDA.

THE ABOVE DESCRIBED PROPERTY IS NOT THE HOMESTEAD OF THE GRANTORS.

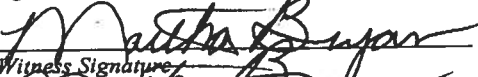
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

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

And the grantors hereby covenant with said grantee that they are lawfully seized of said land in fee simple; that they have good right and lawful authority to sell and convey said land, and hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2006.

In Witness Whereof, the said grantors have signed and sealed these presents, the day and year first above written.

Signed, sealed and delivered in the presence of:


Witness Signature

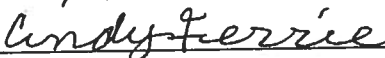

Printed Name


Witness Signature


Printed Name

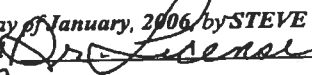
 L.S.

STEVE FERRIE
Address:
**143 SE WOODHAVEN ST,
LAKE CITY, FL 32025**

 L.S.

CINDY FERRIE
Address:
**143 SE WOODHAVEN ST,
LAKE CITY, FL 32025**

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 6th day of January, 2006, by **STEVE FERRIE and CINDY FERRIE**, who are known to me or who have produced  as identification.



Martha Bryan
Commission # DD232534
Expires August 10, 2007
Bonded Title Plan - Insurance, Inc. 800-388-7019


Notary Public

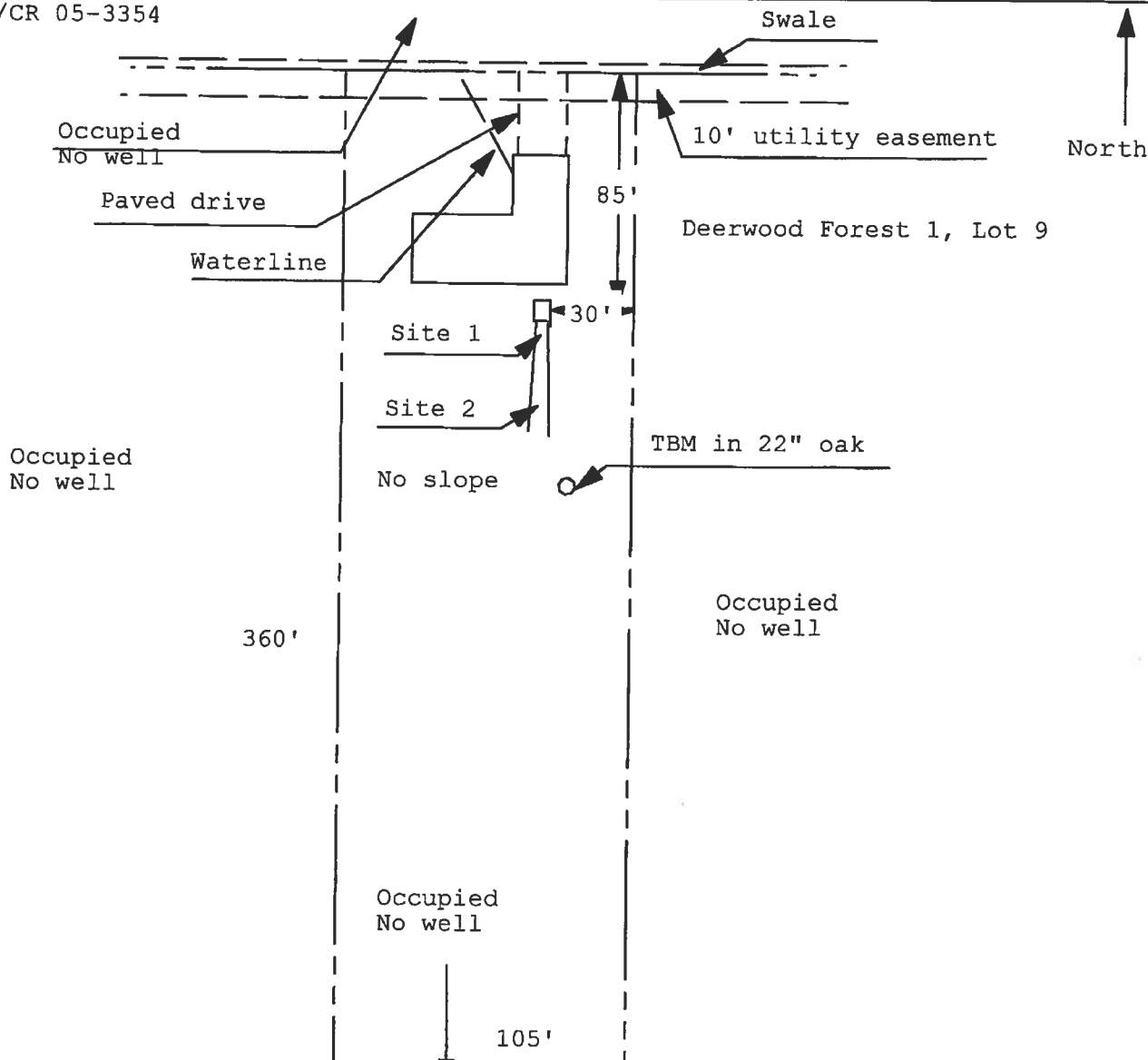
My commission expires _____

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 06-0140N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

STEWART/CR 05-3354



1 inch = 60 feet

Site Plan Submitted By Paul Lloyd Date 2/10/06
Plan Approved ☒ Not Approved ☐ Date 2-16-06

By Mr. D. M. Columbia CPHU

Notes: _____

10.00
1.00
1.50
12.50

NOTICE OF COMMENCEMENT

The undersigned hereby gives notice that improvements will be made to certain real property, and in accordance with Sec. 713, Fla. Stat., the following information is provided in this NOTICE OF COMMENCEMENT.

DESCRIPTION OF PROPERTY: Parcel 9, Deerwood Forest, Unit 1, according to the map or plat thereof recording in Plat Book 4, Page 62, public record of Columbia County, Florida.

DESCRIPTION OF IMPROVEMENTS: Residence

OWNER AND ADDRESS: Rob Stewart, LC
929 SW Main Blvd.
Lake City, Florida 32025

OWNERS' INTEREST IN PROPERTY: Fee Simple

FEE SIMPLE TITLE HOLDER: Owner

CONTRACTOR AND ADDRESS:

SURETY AND ADDRESS

Rob Stewart, LC
929 SW Main Blvd.
Lake City, Florida 32025

NONE

AMOUNT OF BOND: N/A

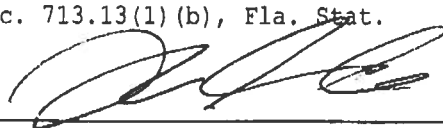
LENDER: Columbia County Bank
173 NW Hillsboro Street
Lake City, Florida 32055

Name and address of person within the State of Florida designated by owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)(7), Florida Statutes: The Owner.

In addition to himself, Owner designate THE LENDER to receive a copy of the Lienor's Notice as provided in Sec. 713.13(1)(b), Fla. Stat.

Inst:2006001771 Date:01/25/2006 Time:10:13

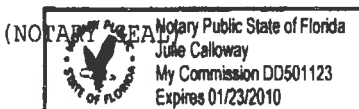
S. P. DC, P. Dewitt Cason, Columbia County B:1071 P:2659


Robert S. Stewart, Managing Member
of Owner

STATE OF FLORIDA
COUNTY OF COLUMBIA

This Instrument Prepared By:
EDDIE M. ANDERSON, P.A.
P. O. Box 1179
Lake City, Florida 32056-1179

The foregoing instrument was acknowledged before me this 25th day of January, 2006, by Robert S. Stewart, Managing Member of Rob Stewart, LC. He is personally known to me.




Notary Public
My Commission Expires:

FROM :

FRK NO. : 395-755-7022

Sep. 17 2002 01:52PM P1

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4" & 6" WELLS



DONALD AND MARY HALL
OWNERS

PHONE (800) 755-7022
FAX (800) 755-7022
HALL'S PUMP & WELL SERVICE, INC.
LAKE CITY, FL 32045
904 NW Main Blvd.

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results.

If you have any questions please feel free to call our office anytime.

Thank you,


Donald D. Hall
DDH/jk

LIMITED POWER OF ATTORNEY

I, Robert Stewart, do hereby authorize Linda or melanie Roder to be my representative and act on my behalf in all aspects of applying for a septic & building permit to be placed on property in ^{Columbia} ~~Suwannee~~ County, Florida described as follows:

Owner's Name: _____

Section _____ Twp _____ Rge _____

Tax Parcel No. _____

[Signature]
(Contractor's Signature)

11/21/08
(Date)

Sworn to and subscribed before me this 11 day of 21, 2008

[Signature]
Notary Public

My Commission expires: 3-24-08
Commission No: DD303275
Personally Known: ✓
Produced ID (Type): _____



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

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	Rob Stewart - Woodhaven Street	Builder:	Rob Stewart LC
Address:	Woodhaven Street	Permitting Office:	Columbia
City, State:	, FL 32025-	Permit Number:	24587
Owner:	Spec House	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 29.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1407 ft²		
7. Glass type ¹ 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: 29.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 174.0 ft²		HSPF: 6.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 174.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 162.0(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 942.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 142.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	PT, —
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, 1407.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft		
b. N/A			

Glass/Floor Area: 0.12

Total as-built points: 22269

Total base points: 22374

PASS

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

PREPARED BY: W. H. MyersDATE: 1.12.06

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

OWNER/AGENT: 3-31-06DATE: Lois H. H. H.

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: _____

DATE: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , FL, 32025-

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	1407.0	20.04	5075.3	Double, Clear	W	1.5	8.0	45.0	38.52	0.96	1660.9
				Double, Clear	W	1.5	8.0	40.0	38.52	0.96	1476.4
				Double, Clear	W	1.5	8.0	9.0	38.52	0.96	332.2
				Double, Clear	N	1.5	8.0	20.0	19.20	0.97	371.4
				Double, Clear	E	1.5	8.0	20.0	42.06	0.96	805.5
				Double, Clear	E	1.5	8.0	40.0	42.06	0.96	1611.1
				As-Built Total:				174.0			6257.6
WALL TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Adjacent	142.0	0.70	99.4	Frame, Wood, Exterior			13.0	942.0	1.50	1413.0	
Exterior	942.0	1.70	1601.4	Frame, Wood, Adjacent			13.0	142.0	0.60	85.2	
Base Total:		1084.0	1700.8	As-Built Total:				1084.0	1498.2		
DOOR TYPES				Area X BSPM = Points		Type		Area X SPM = Points			
Adjacent	18.0	1.60	28.8	Exterior Insulated				20.0	4.10	82.0	
Exterior	20.0	4.10	82.0	Adjacent Insulated				18.0	1.60	28.8	
Base Total:		38.0	110.8	As-Built Total:				38.0	110.8		
CEILING TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM X SCM = Points			
Under Attic	1407.0	1.73	2434.1	Under Attic			30.0	1407.0	1.73 X 1.00	2434.1	
Base Total:		1407.0	2434.1	As-Built Total:				1407.0	2434.1		
FLOOR TYPES				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Slab	162.0(p)	-37.0	-5994.0	Slab-On-Grade Edge Insulation			0.0	162.0(p)	-41.20	-6674.4	
Raised	0.0	0.00	0.0								
Base Total:		-5994.0		As-Built Total:				162.0	-6674.4		
INFILTRATION				Area X BSPM = Points		Area X SPM = Points					
		1407.0	10.21	14365.5				1407.0	10.21	14365.5	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , FL, 32025-

PERMIT #:

BASE			AS-BUILT						
Summer Base Points: 17692.5			Summer As-Built Points: 17991.7						
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
17692.5	0.4266	7547.6	17991.7	1.00	1.250	0.310	0.950	6630.3	

(sys 1: Central Unit 28000 btuh ,SEER/EFF(11.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS)

17992	1.00	(1.09 x 1.147 x 1.00)	0.310	0.950	6630.3
17991.7	1.00	1.250	0.310	0.950	6630.3

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , FL, 32025-

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	1407.0	12.74	3226.5	Double, Clear	W	1.5	8.0	45.0	20.73	1.01	943.2
				Double, Clear	W	1.5	8.0	40.0	20.73	1.01	838.4
				Double, Clear	W	1.5	8.0	9.0	20.73	1.01	188.6
				Double, Clear	N	1.5	8.0	20.0	24.58	1.00	492.0
				Double, Clear	E	1.5	8.0	20.0	18.79	1.02	383.3
				Double, Clear	E	1.5	8.0	40.0	18.79	1.02	766.6
				As-Built Total:				174.0	3612.1		
WALL TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM = Points			
Adjacent	142.0	3.60	511.2	Frame, Wood, Exterior			13.0	942.0	3.40	3202.8	
Exterior	942.0	3.70	3485.4	Frame, Wood, Adjacent			13.0	142.0	3.30	468.6	
Base Total:		1084.0	3996.6	As-Built Total:				1084.0	3671.4		
DOOR TYPES				Area X BWPM = Points		Type		Area X WPM = Points			
Adjacent	18.0	8.00	144.0	Exterior Insulated				20.0	8.40	168.0	
Exterior	20.0	8.40	168.0	Adjacent Insulated				18.0	8.00	144.0	
Base Total:		38.0	312.0	As-Built Total:				38.0	312.0		
CEILING TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM X WCM = Points			
Under Attic	1407.0	2.05	2884.3	Under Attic			30.0	1407.0	2.05 X 1.00	2884.3	
Base Total:		1407.0	2884.3	As-Built Total:				1407.0	2884.3		
FLOOR TYPES				Area X BWPM = Points		Type	R-Value	Area X WPM = Points			
Slab	162.0(p)	8.9	1441.8	Slab-On-Grade Edge Insulation			0.0	162.0(p)	18.80	3045.6	
Raised	0.0	0.00	0.0								
Base Total:			1441.8	As-Built Total:				162.0	3045.6		
INFILTRATION				Area X BWPM = Points				Area X WPM = Points			
		1407.0	-0.59	-830.1				1407.0	-0.59	-830.1	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , FL, 32025-

PERMIT #:

BASE			AS-BUILT						
Winter Base Points: 11031.2			Winter As-Built Points: 12695.3						
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	
11031.2	0.6274	6920.9	(sys 1: Electric Heat Pump 29000 btuh ,EFF(6.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 12695.3	1.000	(1.069 x 1.169 x 1.00)	0.501	0.950	7558.0	
			12695.3	1.00	1.250	0.501	0.950	7558.0	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , FL, 32025-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING				Tank Volume	EF	Number of Bedrooms	X Tank X Multiplier X Credit	= Total	
Number of Bedrooms	X	Multiplier	= Total				Ratio	Multiplier	
3		2635.00	7905.0	50.0	0.90	3	1.00	2693.56	8080.7
				As-Built Total:					8080.7

CODE COMPLIANCE STATUS									
BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
7548		6921		7905 22374	6630		7558		8081 22269

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Woodhaven Street, , 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. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.1

The higher the score, the more efficient the home.

Spec House, Woodhaven Street, , FL, 32025-

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 29.0 kBtu/hr ___ SEER: 11.00 ___
3. Number of units, if multi-family	1	___	b. N/A	___
4. Number of Bedrooms	3	___	c. N/A	___
5. Is this a worst case?	No	___		
6. Conditioned floor area (ft ²)	1407 ft ²	___	13. Heating systems	
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)			a. Electric Heat Pump	Cap: 29.0 kBtu/hr ___ HSPF: 6.80 ___
a. U-factor:	Description Area		b. N/A	___
(or Single or Double DEFAULT)	7a. (Dble Default) 174.0 ft ²	___	c. N/A	___
b. SHGC:				
(or Clear or Tint DEFAULT)	7b. (Clear) 174.0 ft ²	___	14. Hot water systems	
8. Floor types			a. Electric Resistance	Cap: 50.0 gallons ___ EF: 0.90 ___
a. Slab-On-Grade Edge Insulation	R=0.0, 162.0(p) ft	___	b. N/A	___
b. N/A		___	c. Conservation credits	___
c. N/A		___	(HR-Heat recovery, Solar	
9. Wall types			DHP-Dedicated heat pump)	
a. Frame, Wood, Exterior	R=13.0, 942.0 ft ²	___	15. HVAC credits	PT, ___
b. Frame, Wood, Adjacent	R=13.0, 142.0 ft ²	___	(CF-Ceiling fan, CV-Cross ventilation,	
c. N/A		___	HF-Whole house fan,	
d. N/A		___	PT-Programmable Thermostat,	
e. N/A		___	MZ-C-Multizone cooling,	
10. Ceiling types			MZ-H-Multizone heating)	
a. Under Attic	R=30.0, 1407.0 ft ²	___		
b. N/A		___		
c. N/A		___		
11. Ducts				
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 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 EnergyStarTM designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

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

COLUMBIA COUNTY OFFICIAL CERTIFICATE

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 09-4S-17-08302-009

Building permit No. 000024587

Use Classification SFD, UTILITY

Fire: 55.80

Permit Holder ROB STEWART

Waste: 167.50

Owner of Building ROB STEWART

Total: 223.30

Location: 172 SE WOODHAVEN ST(DEERWOOD FOREST LOT 9)

Date: 12/07/2006



Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

#24587

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3811
FHA/VA Case No. (if any) _____

Section 2: Builder Information

Company Name: Tyler Trust Company Phone No. _____

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 172 SE Woodhollow St.
Lake City, FL
Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other _____
Approximate Depth of Footing: Outside 17 Inside 36 Type of Fill Dirt

Section 4: Treatment Information

Date(s) of Treatment(s) 8-24-06
Brand Name of Product(s) Used 1- Pro
EPA Registration No. 79676-1
Approximate Final Mix Solution % 0.25%
Approximate Size of Treatment Area: Sq. ft. 2112 Linear ft. 285 Linear ft. of Masonry Voids 285
Approximate Total Gallons of Solution Applied 442
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List) _____

Comments _____

Name of Applicator(s) Steve Brunner Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Steve Brunner Date 8-24-06

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form NPCA-99-B may still be used

form HUD-NPCA-99-B (04/2003)

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

0603-98

Reference to a building permit application Number:

Rob Stewart Owner Rob Stewart L. C. 172 Woodhaven lot 9 Unit 1 Deerwood Forest Subdivision

On the date of March 28, 2006 application 0603-98 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0603-98 when making reference to this application.

- ✓ 1. Please show compliance with the FBC-2004 Chapter 13 Florida Energy Efficiency Code for Building Construction, 13-100.2 Intent. The provisions of this code shall regulate (1) the design of building envelopes for adequate thermal resistance and low air leakage and (2) the design and selection of mechanical, electrical, and illumination systems and equipment which will enable the effective use of energy in new building construction, additions, alterations or any change in building configuration. Forms are available from the local jurisdiction permitting offices or may be obtained from the Department of Community Affairs, Codes and Standards Section, 2555 Shumard Oak Blvd., Tallahassee, Florida 32399-2100. Copies of Subchapter 6 forms may be found in Appendix 13-D of this chapter or online at www.floridabuilding.org.
- ✓ 2. Also include a Manual J analysis for the structure.

3. Please show compliance with the FRC-2004 sections R309 Garage: R309.1

The attic access door will be required to have the same fire rating as the door described in section R309.1 of the FRC-2004.

4. The parcel of land described with this application (parcel ID number 09-4s-17-08302-009) has been determined to be within an “AE” Flood Zone using the FIRM Flood Insurance Map Community Panel Number 120070 0200 B. This map also establishes the flood elevation 104 ft .Columbia County Florida Resolution 2005R-26 (below) requires that the first floor elevation shall be 105 ft. If any fill dirt is brought on this property to enhance or establish the required first floor elevation the requirements of County Florida Resolution 2005R-26 shall be complied with.
5. Columbia County regulations require a one foot rise analyses certified by an engineer be submitted to the Building and Zonings department prior to issuance of a building permit.

COLUMBIA COUNTY, FLORIDA

RESOLUTION NO. 2005R-26

A RESOLUTION OF COLUMBIA COUNTY, FLORIDA, PROVIDING FOR ADDITIONAL REQUIREMENTS FOR A DEVELOPMENT PERMIT ON PROPERTY WHICH HAS BEEN IDENTIFIED AS “FLOOD PRONE;” AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, since the hurricane season of 2004, Columbia County has experienced significant flooding and related issues impacting the public health, safety and welfare of the residents and citizens of Columbia County as well as their property; and

WHEREAS, the Board of County Commissioners of Columbia County, Florida, finds it is necessary and in the best interest of Columbia County and its residents and citizens for the protection of the health, safety and welfare, together with the protection of property interests in Columbia County, to provide requirements in addition to those currently set forth in local, state and federal statutes, ordinances, rules and regulations, including but not limited to the Columbia County Comprehensive Plan and Columbia County Land Development Regulations (LDRs), for the application and issuance of a development permit.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF COLUMBIA COUNTY, FLORIDA AS FOLLOWS^{1.11}

1. Properties, including lots and acreage, which have been identified in Columbia County as “flood prone” shall, in addition to all other local, state and federal requirements, prior to issuance of a development permit through the Columbia County Building Department provide the following:

a. In addition to all other required submittals, the development permit applicant shall file a grading plan for the property proposed to be developed. The grading plan shall be signed and sealed by a Florida registered professional engineer.

b. The grading plan shall delineate proposed changes from natural ground elevation, if any, including the amount of fill material to be added to the site. The grading plan shall clearly demonstrate that the natural flow of water shall not be altered nor will adjacent properties be negatively impacted by the proposed development.

c. The grading plan shall further establish the lowest habitable floor elevation and building location on the lot or acreage in undetermined flood elevation flood prone areas.

d. Upon its completion, the applicant shall obtain from a Florida licensed land surveyor and provide to Columbia County certification as to the actual height of the finished floor established by the grading plan.

2. Additionally, all “flood prone” properties shall require written certification by a competent Florida licensed professional or agency stating that the property is not defined as a wetland as defined in the Columbia County Land Development Regulations.

3. The term “flood prone” is defined as those lots, acreage or properties that can be demonstrated on existing FEMA or other maps as flood prone properties which competent personal testimony through affidavit or otherwise establishes the property has a history of flooding which would adversely impact development upon the property.

4. There shall be exempt from the requirements of this Resolution lots, acreage or properties otherwise defined as “flood prone” where the ratio of “non-flood prone” property (numerator) to the square footage of impervious surface development on the property (denominator) is no less than 3-to-1. However, all other permitting requirements of the County must be satisfied.

5. Any interested party who is subject to these additional permitting requirements and believes they have been inappropriately applied to them may appeal the decision to the Board of County Commissioners of Columbia County. All such appeals must be in writing and mailed to the Board of County Commissioners of Columbia County, Post

Office Box 1529, Lake City, Florida 32056-1529. At this time no appeal fee is assessed.

6. This Resolution shall remain in effect until the Board of County Commissioners has approved an appropriate ordinance addressing the flood prone issues of Columbia County or until further action of the Board.

UNANIMOUSLY PASSED AND ADOPTED by the Board of County Commissioners at its regular meeting on the _____ day of _____, 2005.

COMMISSIONERS

BOARD OF COUNTY

COLUMBIA COUNTY, FLORIDA

By:

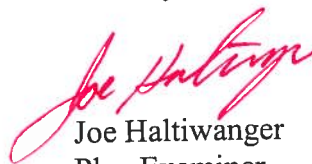
Jennifer Flinn, Chairman

ATTEST:

P. DeWitt Cason, Clerk of Courts

(SEAL)

Thank you,



Joe Haltiwanger
Plan Examiner
Columbia County Building Department

Residential System Sizing Calculation

Summary

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

1/12/2006

Location for weather data: Gainesville - User customized: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (79F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	24 F
Total heating load calculation	24463 Btuh	Total cooling load calculation	34483 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	118.5 29000	Sensible (SHR = 0.75)	76.4 21750
Heat Pump + Auxiliary(0.0kW)	118.5 29000	Latent	120.9 7250
		Total (Electric Heat Pump)	84.1 29000

WINTER CALCULATIONS

Winter Heating Load (for 1407 sqft)

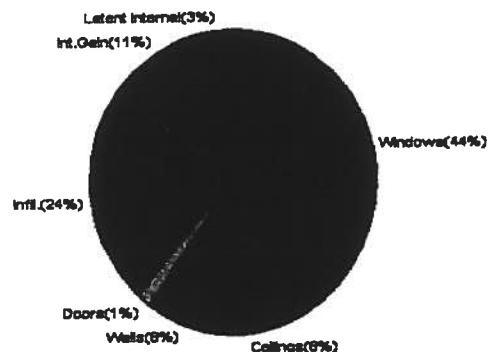
Load component		Load	
Window total	174 sqft	5801 Btuh	
Wall total	1084 sqft	3560 Btuh	
Door total	38 sqft	492 Btuh	
Ceiling total	1407 sqft	1658 Btuh	
Floor total	162 sqft	7073 Btuh	
Infiltration	150 cfm	6079 Btuh	
Duct loss		0 Btuh	
Subtotal		24463 Btuh	
Ventilation	0 cfm	0 Btuh	
TOTAL HEAT LOSS		24463 Btuh	



SUMMER CALCULATIONS

Summer Cooling Load (for 1407 sqft)

Load component		Load	
Window total	174 sqft	15292 Btuh	
Wall total	1084 sqft	2853 Btuh	
Door total	38 sqft	466 Btuh	
Ceiling total	1407 sqft	2644 Btuh	
Floor total		0 Btuh	
Infiltration	131 cfm	3450 Btuh	
Internal gain		3780 Btuh	
Duct gain		0 Btuh	
Sens. Ventilation	0 cfm	0 Btuh	
Total sensible gain		28484 Btuh	
Latent gain(ducts)		0 Btuh	
Latent gain(infiltration)		4799 Btuh	
Latent gain(ventilation)		0 Btuh	
Latent gain(internal/occupants/other)		1200 Btuh	
Total latent gain		5999 Btuh	
TOTAL HEAT GAIN		34483 Btuh	



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Spec House
Woodhaven Street
FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

1/12/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	W	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	E	40.0	32.2	1288 Btuh
Window Total			174(sqft)		5601 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	942	3.3	3094 Btuh
2	Frame - Wood - Adj(0.09)	13.0	142	3.3	466 Btuh
Wall Total			1084		3560 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
Door Total			38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1407	1.2	1658 Btuh
Ceiling Total			1407		1658 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	162.0 ft(p)	43.7	7073 Btuh
Floor Total			162		7073 Btuh
Zone Envelope Subtotal:					18384 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	11256	150.1	6079 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				24463 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	24463 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24463 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ()
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 37.0 F

1/12/2006

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	45.0	32.2	1449 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	W	9.0	32.2	290 Btuh
4	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
5	2, Clear, Metal, 0.87	E	20.0	32.2	644 Btuh
6	2, Clear, Metal, 0.87	E	40.0	32.2	1288 Btuh
	Window Total		174(sqft)		5601 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	942	3.3	3094 Btuh
2	Frame - Wood - Adj(0.09)	13.0	142	3.3	466 Btuh
	Wall Total		1084		3560 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		18	12.9	233 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		38		492 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	1407	1.2	1658 Btuh
	Ceiling Total		1407		1658 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	162.0 ft(p)	43.7	7073 Btuh
	Floor Total		162		7073 Btuh
	Zone Envelope Subtotal:				18384 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	Load
	Natural	0.80	11256	150.1	6079 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)				0 Btuh
Zone #1	Sensible Zone Subtotal				24463 Btuh

SINGLE HOUSE TOTALS

	Subtotal Sensible	24463 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	24463 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

4/12/2006



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear ()
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 1/12/2006

Window	Type*	Omt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	45.0	0.0	45.0	35	86	3852	Btuh	
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424	Btuh	
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	9.0	0.0	9.0	35	86	770	Btuh	
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701	Btuh	
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712	Btuh	
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424	Btuh	
	Excursion									1408	Btuh	
	Window Total				174 (sqft)					15292 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		942.0			2.7		2550 Btuh		
2	Frame - Wood - Adj		13.0/0.09		142.0			2.1		302 Btuh		
	Wall Total				1084 (sqft)					2853 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				18.0			12.3		220 Btuh		
2	Insulated - Exterior				20.0			12.3		245 Btuh		
	Door Total				38 (sqft)					466 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		1407.0			1.9		2644 Btuh		
	Ceiling Total				1407 (sqft)					2644 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		162 (ft(p))			0.0		0 Btuh		
	Floor Total				162.0 (sqft)					0 Btuh		
			Zone Envelope Subtotal:								21254 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		11256			131.3		3450 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			6		X 230 +			2400		3780 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh		
	Sensible Zone Load									28484 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

1/12/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	28484 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	28484 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	28484 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5999 Btuh
	TOTAL GAIN	34483 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))
(Omt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 1/12/2006



Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	45.0	0.0	45.0	35	86	3852	Btuh	
2	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424	Btuh	
3	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	9.0	0.0	9.0	35	86	770	Btuh	
4	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	20.0	0.0	20.0	35	35	701	Btuh	
5	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	20.0	0.0	20.0	35	86	1712	Btuh	
6	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	40.0	0.0	40.0	35	86	3424	Btuh	
	Excursion									1408	Btuh	
	Window Total				174 (sqft)					15292 Btuh		
Walls	Type		R-Value/U-Value		Area(sqft)			HTM		Load		
1	Frame - Wood - Ext		13.0/0.09		942.0			2.7		2550 Btuh		
2	Frame - Wood - Adj		13.0/0.09		142.0			2.1		302 Btuh		
	Wall Total				1084 (sqft)					2853 Btuh		
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Adjacent				18.0			12.3		220 Btuh		
2	Insulated - Exterior				20.0			12.3		245 Btuh		
	Door Total				38 (sqft)					466 Btuh		
Ceilings	Type/Color/Surface		R-Value		Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle		30.0		1407.0			1.9		2644 Btuh		
	Ceiling Total				1407 (sqft)					2644 Btuh		
Floors	Type		R-Value		Size			HTM		Load		
1	Slab On Grade		0.0		162 (ft(p))			0.0		0 Btuh		
	Floor Total				162.0 (sqft)					0 Btuh		
			Zone Envelope Subtotal:								21254 Btuh	
Infiltration	Type		ACH		Volume(cuft)			CFM=		Load		
	SensibleNatural		0.70		11256			131.3		3450 Btuh		
Internal gain			Occupants		Btuh/occupant			Appliance		Load		
			6		X 230 +			2400		3780 Btuh		
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)								DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									28484 Btuh		

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House
Woodhaven Street
, FL 32025-

Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

1/12/2006

Whole House Totals for Cooling	Sensible Envelope Load All Zones	28484 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	28484 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	28484 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	4799 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (6 people @ 200 Btuh per person)	1200 Btuh
	Latent other gain	0 Btuh
	Latent total gain	5999 Btuh
	TOTAL GAIN	34483 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))
(Omt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

Spec House
Woodhaven Street
, FL 32025-

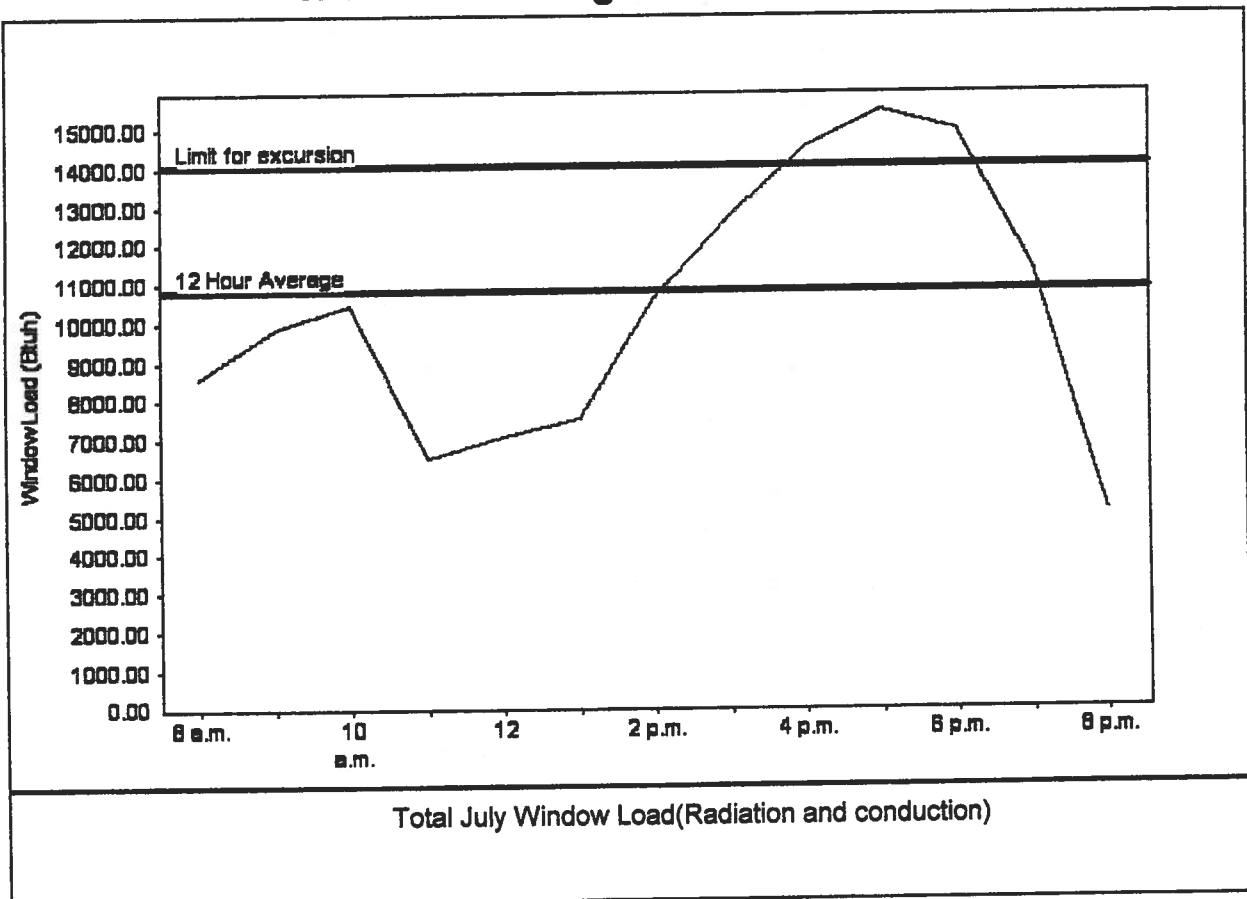
Project Title:
Rob Stewart - Woodhaven Street

Code Only
Professional Version
Climate: North

1/12/2006

Summer design temperature	99 F	Average window load for July	10794 Btu
Summer setpoint	75 F	Peak window load for July	15440 Btu
Summer temperature difference	24 F	Excursion limit(130% of Ave.)	14032 Btu
Latitude	29 North	Window excursion (July)	1408 Btu

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: _____
DATE: _____

EnergyGauge® FLRCPB v4.1

