Columbia County Building Permit Application

ck# 2458/1206 Revised 9-23-04

For Office Use Only Application # 0608-86 Date Received 8/25/06 By CT Permit # 24986

Application Approved by - Zoning Official BLK Date 08.09.06 Plans Examiner OKJTH Date 9-6-06

Flood Zone X Pilot Development Permit N/A Zoning RSF-2 Land Use Plan Map Category Res. Low Den.

Comments

758-8920

Applicants Name Bryan Zecher Phone 752-8653

Address P.O. Box 815 Lake City, FL 32056

Owners Name Rose-Marie Wilson Phone 752-5875

911 Address 304 SW Short Leaf Dr. Lake City, FL 32024

Contractors Name Bryan Zecher Construction, Inc. Phone 752-8653

Address P.O. Box 815 Lake City, FL 32056

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address Teena Ruffo / Mark Disasway

Mortgage Lenders Name & Address N/A

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

Property ID Number 21-4S-16-03080-007 Estimated Cost of Construction $386,000.00

Subdivision Name Forest Country Lot 6 Block A Unit ____ Phase 2

Driving Directions Take CR 247 South to Forest Country Subdivision. Turn Left into subdivision. At stop sign, turn Right and take 2nd Left onto Short Leaf Drive. Lot is 6th on Right.

Type of Construction Frame Number of Existing Dwellings on Property 0

Total Acreage .532 Lot Size .532ac Do you need a - (Culvert Permit) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 28' Side 98' Side 25' Rear 15'

Total Building Height 24'7½" Number of Stories 1 Heated Floor Area 2867 S.F. Roof Pitch 8/12

TOTAL 4076

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 COMMENCMENT 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)

Contractor Signature

Contractors License Number CBC054575

Competency Card Number

NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me this 24 day of August 20 06.

Personally known ✓ or Produced Identification

Notary Signature

REBECCA DUGAN
MY COMMISSION # DD452939
EXPIRES: JUL 20, 2009
Bonded through 1st State Insurance

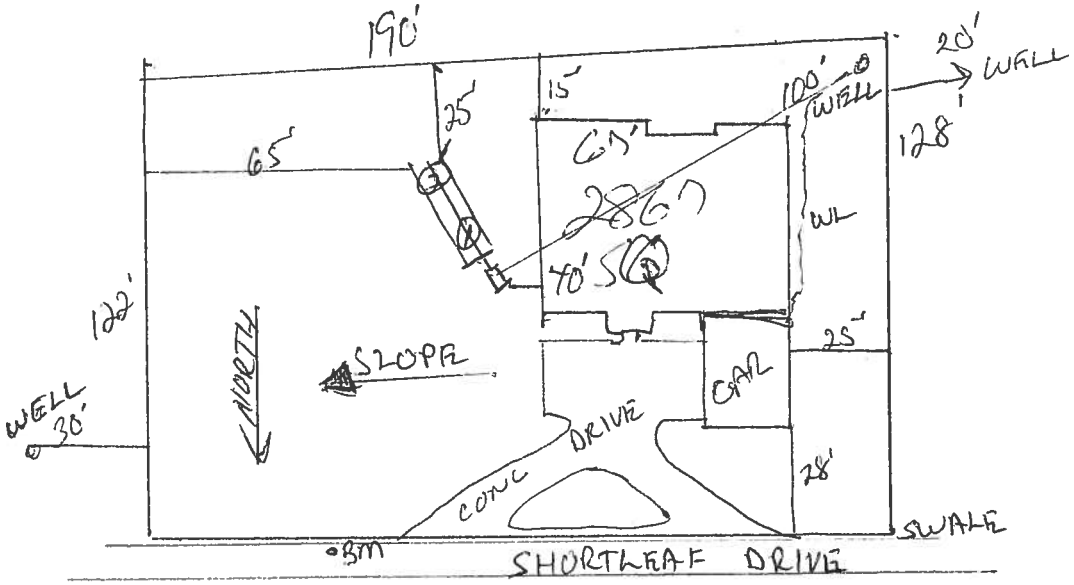
STATE OF FLORIDA
DEPARTMENT OF HEALTH
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 06-0730N

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

Scale: 1 inch = 50 feet.

Wilson, Rock, MARINE



Notes: _____

Site Plan submitted by: Rock D 7-0 MASTER CONTRACTOR

Plan Approved ✓ Not Approved _____ Date 8/16/06

By _____ Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (904) 752-1854
FAX (904) 755-7022
904 NW Main Blvd.
LAKE CITY, FLORIDA 32055

June 12, 2002

NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram 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

21-4S-16-03080-007

LOT 6 BLOCK A FOREST COUNTRY SECOND ADDITION. ORB 848-1710, 934-2261, 934-2268, 990-2332.

WILSON ROSE-MARIE G
743 SW LAKE MONTGOMERY AVE
LAKE CITY, FL 32025-5190

21-4S-16-03080-007

Columbia County 2006 R
CARD 001 of 001

PRINTED 5/05/2006 8:43 BY JEFF
APPR 3/10/2003 HC

BUSE		AE?	HTD AREA	.000	INDEX	21416.01	FOREST 2	PUSE 000000	VACANT
MOD	BATH		EFF AREA	59.399	E-RATE	.000	INDX	STR 21- 4S- 16	
EXW	FIXT		RCN				AYB	MKT AREA 06	0 BLDG
%	BDRM		%GOOD		BLDG VAL		EYB	(PUD1	0 XFOB
RSTR	RMS							AC .532	34,000 LAND
RCVR	UNTS		FIELD CK:					NTCD	0 AG
%	C-W%		LOC: FOREST COUNTRY					APPR CD	0 MKAG
INT	HGHT							CNDO	34,000 JUST
%	PMTR							SUBD	0 CLAS
FLR	STYS							BLK	
%	ECON							LOT	0 SOHD
HTTP	FUNC							MAP# 46-C	0 ASSD
A/C	SPCD								0 EXPT
QUAL	DEPR							TXDT 003	0 COTXBL
FNDN	UD-1								
SIZE	UD-2							BLDG TRAVERSE	
CEIL	UD-3								
ARCH	UD-4								
FRME	UD-5								
KTCH	UD-6								
WNDO	UD-7								
CLAS	UD-8								
OCC	UD-9								
COND	%								

SUB A-AREA % E-AREA SUB VALUE

TOTAL

PERMITS

NUMBER	DESC	AMT	ISSUED

SALE

BOOK	PAGE	DATE	PRICE
990	2332	8/06/2003 Q V	21000
GRANTOR BLONDINA M STEVENS			
GRANTEE ROSE-MARIE G WILSON			
934	2268	9/07/2001 U V	18000
GRANTOR RANDELL VAN VLECK			
GRANTEE BLONDINA STEVENS (BACK TO ORIGINAL			

EXTRA FEATURES

AE	BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	UNITS	UT	PRICE	ADJ UT PR	SPCD %	%GOOD	XFOB VALUE

FIELD CK:

AE	LAND CODE	DESC	ZONE	ROAD	UD1	UD3	FRONT	DEPTH	ADJUSTMENTS	UNITS	UT	PRICE	ADJ UT PR	LAND VALUE
			TOPO	UTIL	UD2	UD4	BACK	DT						
Y	000000	VAC RES	RSF-1	0002			190	122	1.00 1.00 1.00 1.00	1.000	LT	34000.000	34000.00	34,000
				0002	0003									

L001 - 0.55 AC.
2006

SALE - LOT 6 BLK A SECOND ADDITION

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**608152BryanZecher**	Builder:	
Address:	**Lot: 6, Sub: Forest Country, Plat:**	Permitting Office:	
City, State:	**,**	Permit Number:	
Owner:	**Rose Wilson**	Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 50.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	2867 ft²	c. N/A	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)			
a. U-factor:	Description Area	13. Heating systems	
(or Single or Double DEFAULT) 7a.	(Dble Default) 345.0 ft²	a. Electric Heat Pump	Cap: 50.0 kBtu/hr
b. SHGC:			HSPF: 7.00
(or Clear or Tint DEFAULT) 7b.	(Clear) 345.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 252.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 1481.0 ft²		EF: 0.93
b. Frame, Wood, Adjacent	R=13.0, 180.0 ft²	b. N/A	
c. N/A			
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 2971.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 200.0 ft		
b. N/A			

Glass/Floor Area: 0.12	Total as-built points: 37849 Total base points: 39103	PASS

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

PREPARED BY: Ben Gerald

DATE: 4-16-06

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

OWNER/AGENT: _____

DATE: 8/24/04

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

BUILDING OFFICIAL: _____

DATE: _____

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

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	**2867.0**	**20.04**	**10341.8**	Double, Clear	S	9.0	3.5	31.7	35.87	0.44	496.1	
				Double, Clear	S	8.0	10.0	10.0	35.87	0.55	198.4	
				Double, Clear	S	8.0	7.5	54.0	35.87	0.51	989.8	
				Double, Clear	E	34.0	10.0	10.0	42.06	0.36	150.1	
				Double, Clear	S	2.0	5.5	45.0	35.87	0.75	1208.6	
				Double, Clear	S	1.5	5.5	15.0	35.87	0.83	447.7	
				Double, Clear	W	1.5	2.5	6.0	38.52	0.67	155.1	
				Double, Clear	W	1.5	5.5	30.0	38.52	0.90	1036.6	
				Double, Clear	W	1.5	5.5	10.0	38.52	0.90	345.5	
				Double, Clear	N	1.5	7.0	45.0	19.20	0.96	825.1	
				Double, Clear	N	1.5	0.0	15.0	19.20	0.59	170.8	
				Double, Clear	E	1.5	4.5	16.0	42.06	0.85	570.7	
				Double, Clear	E	1.5	3.5	6.0	42.06	0.78	195.7	
				Double, Clear	E	1.5	5.5	15.0	42.06	0.90	565.5	
				Double, Clear	S	8.0	1.5	9.0	35.87	0.43	139.4	
				Double, Clear	S	2.0	1.5	3.0	35.87	0.48	52.1	
				Double, Clear	N	1.5	2.0	3.0	19.20	0.76	43.6	
				Double, Clear	N	8.0	2.0	5.0	19.20	0.59	56.9	
				Double, Clear	N	1.5	0.0	3.0	19.20	0.59	34.2	
				Double, Clear	N	8.0	8.0	13.3	19.20	0.71	181.5	
				As-Built Total:				**345.0**			**7863.5**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior	13.0	1481.0	1.50	2221.5
Exterior	1481.0	1.70	2517.7	Frame, Wood, Adjacent	13.0	180.0	0.60	108.0
Base Total:	**1661.0**		**2643.7**	**As-Built Total:**		**1661.0**		**2329.5**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	20.0	1.60	32.0	Exterior Insulated	20.0	4.10	82.0
Exterior	40.0	4.10	164.0	Exterior Insulated	20.0	4.10	82.0
				Adjacent Insulated	20.0	1.60	32.0
Base Total:	**60.0**		**196.0**	**As-Built Total:**	**60.0**		**196.0**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	= Points
Under Attic	2867.0	1.73	4959.9	Under Attic	30.0	2971.0	1.73 X 1.00	5139.8
Base Total:	**2867.0**		**4959.9**	**As-Built Total:**		**2971.0**		**5139.8**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	252.0(p)	-37.0	-9324.0	Slab-On-Grade Edge Insulation	0.0	252.0(p	-41.20		-10382.4
Raised	0.0	0.00	0.0						
Base Total:			**-9324.0**	**As-Built Total:**		**252.0**			**-10382.4**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	2867.0	10.21	29272.1			2867.0	10.21		29272.1
Summer Base Points: 38089.5				**Summer As-Built Points:**					**34418.5**
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
				(sys 1: Central Unit 50000 btuh ,SEER/EFF(10.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS)					
				34418	1.00	(1.09 x 1.147 x 0.91)	0.341	1.000	13364.7
38089.5	**0.4266**		**16249.0**	**34418.5**	**1.00**	**1.138**	**0.341**	**1.000**	**13364.7**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** PERMIT #:

BASE

GLASS TYPES

.18 X	Conditioned Floor Area	X BWPM	= Points
.18	**2867.0**	**12.74**	**6574.6**

WALL TYPES

	Area	X BWPM	= Points
Adjacent	180.0	3.60	648.0
Exterior	1481.0	3.70	5479.7
Base Total:	**1661.0**		**6127.7**

DOOR TYPES

	Area	X BWPM	= Points
Adjacent	20.0	8.00	160.0
Exterior	40.0	8.40	336.0
Base Total:	**60.0**		**496.0**

CEILING TYPES

	Area	X BWPM	= Points
Under Attic	2867.0	2.05	5877.4
Base Total:	**2867.0**		**5877.4**

AS-BUILT

GLASS TYPES

Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF = Points
Double, Clear	S	9.0	3.5	31.7	13.30	3.63 1528.0
Double, Clear	S	8.0	10.0	10.0	13.30	2.38 316.4
Double, Clear	S	8.0	7.5	54.0	13.30	2.84 2039.4
Double, Clear	E	34.0	10.0	10.0	18.79	1.51 283.2
Double, Clear	S	2.0	5.5	45.0	13.30	1.32 787.4
Double, Clear	S	1.5	5.5	15.0	13.30	1.15 228.8
Double, Clear	W	1.5	2.5	6.0	20.73	1.11 137.6
Double, Clear	W	1.5	5.5	30.0	20.73	1.03 639.3
Double, Clear	W	1.5	5.5	10.0	20.73	1.03 213.1
Double, Clear	N	1.5	7.0	45.0	24.58	1.00 1107.7
Double, Clear	N	1.5	0.0	15.0	24.58	1.03 378.7
Double, Clear	E	1.5	4.5	16.0	18.79	1.06 318.9
Double, Clear	E	1.5	3.5	6.0	18.79	1.09 123.3
Double, Clear	E	1.5	5.5	15.0	18.79	1.04 293.5
Double, Clear	S	8.0	1.5	9.0	13.30	3.66 438.0
Double, Clear	S	2.0	1.5	3.0	13.30	3.15 125.6
Double, Clear	N	1.5	2.0	3.0	24.58	1.01 74.8
Double, Clear	N	8.0	2.0	5.0	24.58	1.03 126.2
Double, Clear	N	1.5	0.0	3.0	24.58	1.03 75.7
Double, Clear	N	8.0	8.0	13.3	24.58	1.02 332.9
As-Built Total:				**345.0**		**9568.7**

WALL TYPES

Type	R-Value	Area X	WPM =	Points
Frame, Wood, Exterior	13.0	1481.0	3.40	5035.4
Frame, Wood, Adjacent	13.0	180.0	3.30	594.0
As-Built Total:		**1661.0**		**5629.4**

DOOR TYPES

Type	Area X	WPM =	Points
Exterior Insulated	20.0	8.40	168.0
Exterior Insulated	20.0	8.40	168.0
Adjacent Insulated	20.0	8.00	160.0
As-Built Total:	**60.0**		**496.0**

CEILING TYPES

Type	R-Value	Area X	WPM X WCM =	Points
Under Attic	30.0	2971.0	2.05 X 1.00	6090.5
As-Built Total:		**2971.0**		**6090.5**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** PERMIT #:

BASE				AS-BUILT						
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points	
Slab	252.0(p)	8.9	2242.8	Slab-On-Grade Edge Insulation	0.0	252.0(p	18.80		4737.6	
Raised	0.0	0.00	0.0							
Base Total:			**2242.8**	**As-Built Total:**		**252.0**			**4737.6**	
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points	
	2867.0	-0.59	-1691.5			2867.0	-0.59		-1691.5	
Winter Base Points:			**19626.9**	**Winter As-Built Points:**						**24830.7**
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	
				(sys 1: Electric Heat Pump 50000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0						
				24830.7	1.000	(1.069 x 1.169 x 0.93)	0.487	1.000	14057.9	
19626.9	**0.6274**	**12313.9**		**24830.7**	**1.00**	**1.162**	**0.487**	**1.000**	**14057.9**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X Multiplier	= Total		Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total
4	2635.00	10540.0		40.0	0.93	4	1.00	2606.67	1.00	10426.7
				As-Built Total:						**10426.7**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
16249	**12314**	**10540**	**39103**	**13365**	**14058**	**10427**	**37849**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 6, Sub: Forest Country, Plat: , , ,** 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* = 83.7

The higher the score, the more efficient the home.

Rose Wilson, Lot: 6, Sub: Forest Country, Plat: , , ,

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	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	2867 ft²	
7.	Glass type [1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble Default) 345.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 345.0 ft²	
8.	Floor types		
a.	Slab-On-Grade Edge Insulation	R=0.0, 252.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1481.0 ft²	
b.	Frame, Wood, Adjacent	R=13.0, 180.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2971.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 200.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 50.0 kBtu/hr SEER: 10.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 50.0 kBtu/hr HSPF: 7.00	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.93	
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)		

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: 8/24/06

Address of New Home: 204 SW Shortleaf Dr City/FL Zip: LC, FL 32024

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 at 850/487-1824.

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

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

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

1. Description of Property: Lot #6 Block A 2nd Addition
304 SW Short Leaf Dr, Lake City, FL 32024

2. General Description of Improvement: NEW Home

3. Owner Information:
   a. Name and Address: Rose-Marie Wilson
   743 SW Lake Montgomery Av LC, FL 32025
   b. Interest in Property: Fee simple
   c. Name and Address of Fee Simple Titleholder (if other than owner): —

4. Contractor (name and address): Bryan Zeiher Construction, Inc.
PO Box 815 Lake City, FL 32056

5. Surety:
   a. Name and Address: —
   b. Amount of Bond: —

6. Lender (name and address): —

7. Persons within the State of Florida designated by owner upon whom notices or other documents may be served as provided by Florida Statutes 713.13(1)(a)(7): —

8. In addition to himself, owner designates: —
to receive a copy of the Lienor's Notice as provided in Florida Statutes 713.13(1)(b).

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

Inst:2006020144 Date:08/24/2006 Time:11:50
DC,P.DeWitt Cason,Columbia County B:1093 P:2232

Rose-Marie W. Wilson
Type Owner Name: Rose-Marie Wilson

Type Owner Name: —

Sworn to and subscribed before me this 23 day of August, 20 05.

Personally Known ✓
Produced ID —
Did/Did Not Take an Oath —

Rebecca Dugan
Type Notary's Name Rebecca Dugan
Notary Public, State of Florida
Commission Expiry & Number: —

REBECCA DUGAN
MY COMMISSION #DD452939
EXPIRES: JUL 20, 2009
Bonded through 1st State Insurance

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001206

DATE 09/19/2006 PARCEL ID # 21-4S-16-03080-007

APPLICANT BRYAN ZECHER PHONE 752-8653

ADDRESS PO BOX 815 LAKE CITY FL 32056

OWNER ROSE-MARIA WILSON PHONE 752-5875

ADDRESS 304 SW SHORT LEAF DR LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE

LOCATION OF PROPERTY 247 S, L INTO FOREST COUNTRY S/D, R AT STOP SIGN, 2ND LEFT ONTO SHORT LEAF DR, 6TH ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT FORREST COUNTRY 6 A 2

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

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

Reference to a building permit application Number: 0608-86

Contractor Bryan Zecher Owner Rose-Marie Wilson Property ID# 21-4s-16-03080-007

On the date of August 30, 2006 application 0608-86 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 0608-86 and when making reference to this application.

This is a plan review for compliance with the Florida Residential Code 2004 only and doesn't make any consideration toward the land use and zoning requirements.

1. Please submit a recorded (with the Columbia County Clerk Office) notice of commencement before any inspections can be preformed by the Columbia County Building Department.

2. The location of the HVAC unit is not shown on the floor plans it is assumed that this unit would be located in the mechanical room, therefore there are two options to comply with the residential code as the relate to HVAC units.

A. If the mechanical room access door is so installed to meet sections R309.1. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors.

B. The HVAC ducts could be so constructed to meet section R309.1.1 Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

3. A floor drain is shown in the laundry room, to drain overflow from a mechanical malfunction by the washing machine. This floor drain will be required to comply with plumbing code 2004 section 1002.4 Trap seals. Each fixture trap shall have a liquid seal of not less than 2 inches (51 mm) and not more than 4 inches (102 mm), or deeper for special designs relating to accessible fixtures. Where a trap seal is subject to loss by evaporation, a trap seal primer valve shall be installed. A trap seal primer valve shall conform to ASSE 1018 or ASSE 1044.

Joe Haltiwanger

Columbia County

Plan Examiner

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE
EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE -------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE --------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☐	☐	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☐	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☐	☐	**Site Plan including:** a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☐	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
☑	☐	**Elevations including:**
☑	☐	a) All sides
☑	☐	b) Roof pitch
☑	☐	c) Overhang dimensions and detail with attic ventilation
☑	☐	d) Location, size and height above roof of chimneys
☑	☐	e) Location and size of skylights
☑	☐	f) Building height
☑	☐	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned

b) Shear walls

c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)

d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth

e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails

f) Must show and identify accessibility requirements (accessible bathroom)

Foundation Plan including:

a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing

b) All posts and/or column footing including size and reinforcing

c) Any special support required by soil analysis such as piling

d) Location of any vertical steel

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☑ ☐ b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

☑ N/A ☐ c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

☐ N/A ☐ a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

☐ ☐ b) Floor joist size and spacing

☐ ☐ c) Girder size and spacing

☐ ☐ d) Attachment of joist to girder

☐ ☐ e) Wind load requirements where applicable

☑ ☐ **Plumbing Fixture layout**

Electrical layout including:

☑ ☐ a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

☑ ☐ b) Ceiling fans

☑ ☐ c) Smoke detectors

☑ ☐ d) Service panel and sub-panel size and location(s)

☑ ☐ e) Meter location with type of service entrance (overhead or underground)

☑ ☐ f) Appliances and HVAC equipment

☑ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

HVAC information

☑ ☐ a) Manual J sizing equipment or equivalent computation

☑ ☐ b) Exhaust fans in bathroom

☑ ☐ **Energy Calculations** (dimensions shall match plans)

☑ ☐ Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank 7 l hrs

c) Cycle stop valve if used

Residential System Sizing Calculation

Summary

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

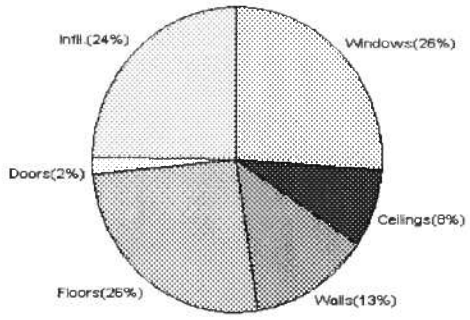
8/16/2006

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M) Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)					
Winter design temperature	33	F	Summer design temperature	92	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	37	F	Summer temperature difference	17	F
Total heating load calculation	**42060**	**Btuh**	**Total cooling load calculation**	**38094**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	118.9	50000	Sensible (SHR = 0.75)	118.1	37500
Heat Pump + Auxiliary(0.0kW)	118.9	50000	Latent	196.9	12500
			Total (Electric Heat Pump)	131.3	50000

WINTER CALCULATIONS

Winter Heating Load (for 2867 sqft)

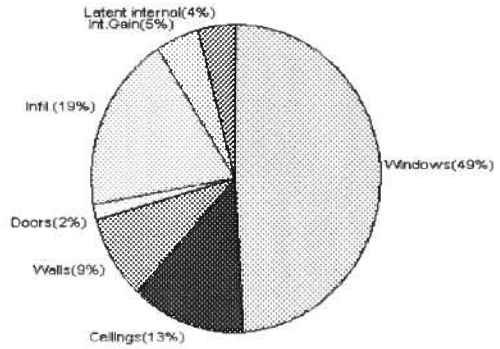
Load component			Load	
Window total	345	sqft	11106	Btuh
Wall total	1661	sqft	5455	Btuh
Door total	60	sqft	777	Btuh
Ceiling total	2971	sqft	3501	Btuh
Floor total	252	sqft	11002	Btuh
Infiltration	252	cfm	10220	Btuh
Duct loss			0	Btuh
Subtotal			**42060**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**42060**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2867 sqft)

Load component			Load	
Window total	345	sqft	18616	Btuh
Wall total	1661	sqft	3361	Btuh
Door total	60	sqft	588	Btuh
Ceiling total	2971	sqft	4920	Btuh
Floor total			0	Btuh
Infiltration	130	cfm	2419	Btuh
Internal gain			1840	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**31744**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			4750	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**6350**	**Btuh**
TOTAL HEAT GAIN			**38094**	**Btuh**



For Florida residences only

EnergyGauge® System Sizing
PREPARED BY:
DATE: 4-16-06

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

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

8/16/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	31.7	32.2	1020 Btuh
2	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
3	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
4	2, Clear, Metal, 0.87	SW	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
6	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
7	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
8	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	NE	10.0	32.2	322 Btuh
10	2, Clear, Metal, 0.87	SE	45.0	32.2	1449 Btuh
11	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
12	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
14	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
15	2, Clear, Metal, 0.87	NW	9.0	32.2	290 Btuh
16	2, Clear, Metal, 0.87	NW	3.0	32.2	97 Btuh
17	2, Clear, Metal, 0.87	SE	3.0	32.2	97 Btuh
18	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
19	2, Clear, Metal, 0.87	SE	3.0	32.2	97 Btuh
20	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
	Window Total		345(sqft)		11106 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1481	3.3	4864 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1661		5455 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2971	1.2	3501 Btuh
	Ceiling Total		2971		3501Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	252.0 ft(p)	43.7	11002 Btuh
	Floor Total		252		11002 Btuh
			Zone Envelope Subtotal:		31841 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	22936	252.3	10220 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

8/16/2006

Zone #1	**Sensible Zone Subtotal**	**42060 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	42060 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	42060 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)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

,

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

8/16/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	31.7	32.2	1020 Btuh
2	2, Clear, Metal, 0.87	NW	10.0	32.2	322 Btuh
3	2, Clear, Metal, 0.87	NW	54.0	32.2	1738 Btuh
4	2, Clear, Metal, 0.87	SW	10.0	32.2	322 Btuh
5	2, Clear, Metal, 0.87	NW	45.0	32.2	1449 Btuh
6	2, Clear, Metal, 0.87	NW	15.0	32.2	483 Btuh
7	2, Clear, Metal, 0.87	NE	6.0	32.2	193 Btuh
8	2, Clear, Metal, 0.87	NE	30.0	32.2	966 Btuh
9	2, Clear, Metal, 0.87	NE	10.0	32.2	322 Btuh
10	2, Clear, Metal, 0.87	SE	45.0	32.2	1449 Btuh
11	2, Clear, Metal, 0.87	SE	15.0	32.2	483 Btuh
12	2, Clear, Metal, 0.87	SW	16.0	32.2	515 Btuh
13	2, Clear, Metal, 0.87	SW	6.0	32.2	193 Btuh
14	2, Clear, Metal, 0.87	SW	15.0	32.2	483 Btuh
15	2, Clear, Metal, 0.87	NW	9.0	32.2	290 Btuh
16	2, Clear, Metal, 0.87	NW	3.0	32.2	97 Btuh
17	2, Clear, Metal, 0.87	SE	3.0	32.2	97 Btuh
18	2, Clear, Metal, 0.87	SE	5.0	32.2	161 Btuh
19	2, Clear, Metal, 0.87	SE	3.0	32.2	97 Btuh
20	2, Clear, Metal, 0.87	SE	13.3	32.2	428 Btuh
	Window Total		345(sqft)		11106 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	1481	3.3	4864 Btuh
2	Frame - Wood - Adj(0.09)	13.0	180	3.3	591 Btuh
	Wall Total		1661		5455 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Adjacent		20	12.9	259 Btuh
2	Insulated - Exterior		20	12.9	259 Btuh
3	Insulated - Exterior		20	12.9	259 Btuh
	Door Total		60		777Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	2971	1.2	3501 Btuh
	Ceiling Total		2971		3501Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab On Grade	0	252.0 ft(p)	43.7	11002 Btuh
	Floor Total		252		11002 Btuh
			Zone Envelope Subtotal:		31841 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=	
	Natural	0.66	22936	252.3	10220 Btuh
Ductload	Unsealed, R6.0, Supply(Attic), Return(Attic)			(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

8/16/2006

Zone #1	**Sensible Zone Subtotal**	**42060 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	42060 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	42060 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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 8/16/2006

This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	9ft.	3.5ft.	31.7	0.0	31.7	29	60	1903 Btuh
2	2, Clear, 0.87, None,N,N	NW	8ft.	10ft.	10.0	0.0	10.0	29	60	600 Btuh
3	2, Clear, 0.87, None,N,N	NW	8ft.	7.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
4	2, Clear, 0.87, None,N,N	SW	34ft.	10ft.	10.0	10.0	0.0	29	63	290 Btuh
5	2, Clear, 0.87, None,N,N	NW	2ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
6	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	2.5ft.	6.0	0.0	6.0	29	60	360 Btuh
8	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
9	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	10.0	0.0	10.0	29	60	600 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	45.0	4.7	40.3	29	63	2656 Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729 Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
15	2, Clear, 0.87, None,N,N	NW	8ft.	1.5ft.	9.0	0.0	9.0	29	60	540 Btuh
16	2, Clear, 0.87, None,N,N	NW	2ft.	1.5ft.	3.0	0.0	3.0	29	60	180 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	2ft.	3.0	3.0	0.0	29	63	87 Btuh
18	2, Clear, 0.87, None,N,N	SE	8ft.	2ft.	5.0	5.0	0.0	29	63	145 Btuh
19	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	3.0	3.0	0.0	29	63	87 Btuh
20	2, Clear, 0.87, None,N,N	SE	8ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
	Window Total				345 (sqft)					18616 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1481.0	2.1	3089 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	1.5	272 Btuh
	Wall Total		1661 (sqft)		3361 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2971.0	1.7	4920 Btuh
	Ceiling Total		2971 (sqft)		4920 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	252 (ft(p))	0.0	0 Btuh
	Floor Total		252.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:		27485 Btuh
Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.34	22936	130.0	2419 Btuh
Internal gain		Occupants	Btuh/occupant	Appliance	Load
		8	X 230 +	0	1840 Btuh
Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)			DGM = 0.00	0.0 Btuh
			Sensible Zone Load		**31744 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

8/16/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**31744 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**31744 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**31744 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	4750 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6350 Btuh**
	TOTAL GAIN	**38094 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

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Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 8/16/2006
This calculation is for Worst Case. The house has been rotated 315 degrees.

Component Loads for Zone #1: Main

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	NW	9ft.	3.5ft.	31.7	0.0	31.7	29	60	1903 Btuh
2	2, Clear, 0.87, None,N,N	NW	8ft.	10ft.	10.0	0.0	10.0	29	60	600 Btuh
3	2, Clear, 0.87, None,N,N	NW	8ft.	7.5ft.	54.0	0.0	54.0	29	60	3242 Btuh
4	2, Clear, 0.87, None,N,N	SW	34ft.	10ft.	10.0	10.0	0.0	29	63	290 Btuh
5	2, Clear, 0.87, None,N,N	NW	2ft.	5.5ft.	45.0	0.0	45.0	29	60	2702 Btuh
6	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901 Btuh
7	2, Clear, 0.87, None,N,N	NE	1.5ft.	2.5ft.	6.0	0.0	6.0	29	60	360 Btuh
8	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	30.0	0.0	30.0	29	60	1801 Btuh
9	2, Clear, 0.87, None,N,N	NE	1.5ft.	5.5ft.	10.0	0.0	10.0	29	60	600 Btuh
10	2, Clear, 0.87, None,N,N	SE	1.5ft.	7ft.	45.0	4.7	40.3	29	63	2656 Btuh
11	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434 Btuh
12	2, Clear, 0.87, None,N,N	SW	1.5ft.	4.5ft.	16.0	8.1	7.9	29	63	729 Btuh
13	2, Clear, 0.87, None,N,N	SW	1.5ft.	3.5ft.	6.0	4.0	2.0	29	63	239 Btuh
14	2, Clear, 0.87, None,N,N	SW	1.5ft.	5.5ft.	15.0	6.1	8.9	29	63	734 Btuh
15	2, Clear, 0.87, None,N,N	NW	8ft.	1.5ft.	9.0	0.0	9.0	29	60	540 Btuh
16	2, Clear, 0.87, None,N,N	NW	2ft.	1.5ft.	3.0	0.0	3.0	29	60	180 Btuh
17	2, Clear, 0.87, None,N,N	SE	1.5ft.	2ft.	3.0	3.0	0.0	29	63	87 Btuh
18	2, Clear, 0.87, None,N,N	SE	8ft.	2ft.	5.0	5.0	0.0	29	63	145 Btuh
19	2, Clear, 0.87, None,N,N	SE	1.5ft.	0ft.	3.0	3.0	0.0	29	63	87 Btuh
20	2, Clear, 0.87, None,N,N	SE	8ft.	8ft.	13.3	13.3	0.0	29	63	385 Btuh
	Window Total				345 (sqft)					18616 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	1481.0	2.1	3089 Btuh
2	Frame - Wood - Adj	13.0/0.09	180.0	1.5	272 Btuh
	Wall Total		1661 (sqft)		3361 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Adjacent	20.0	9.8	196 Btuh
2	Insulated - Exterior	20.0	9.8	196 Btuh
3	Insulated - Exterior	20.0	9.8	196 Btuh
	Door Total	60 (sqft)		588 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2971.0	1.7	4920 Btuh
	Ceiling Total		2971 (sqft)		4920 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab On Grade	0.0	252 (ft(p))	0.0	0 Btuh
	Floor Total		252.0 (sqft)		0 Btuh

			Zone Envelope Subtotal:	27485 Btuh

Infiltration	Type	ACH	Volume(cuft)	CFM=	Load
	SensibleNatural	0.34	22936	130.0	2419 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	8	X 230	+	0	1840 Btuh

Duct load	Unsealed, R6.0, Supply(Attic), Return(Attic)	DGM = 0.00	0.0 Btuh
		Sensible Zone Load	**31744 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Rose Wilson

Project Title:
608152BryanZecher

Class 3 Rating
Registration No. 0
Climate: North

8/16/2006

WHOLE HOUSE TOTALS

	Sensible Envelope Load All Zones	**31744 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**31744 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
Whole House	**Total sensible gain**	**31744 Btuh**
Totals for Cooling	Latent infiltration gain (for 54 gr. humidity difference)	4750 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**6350 Btuh**
	TOTAL GAIN	**38094 Btuh**

*Key: Window types (Pn - Number of panes of glass)
(SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)

For Florida residences only

Residential Window Diversity

MidSummer

Rose Wilson

Project Title:
608152BryanZecher

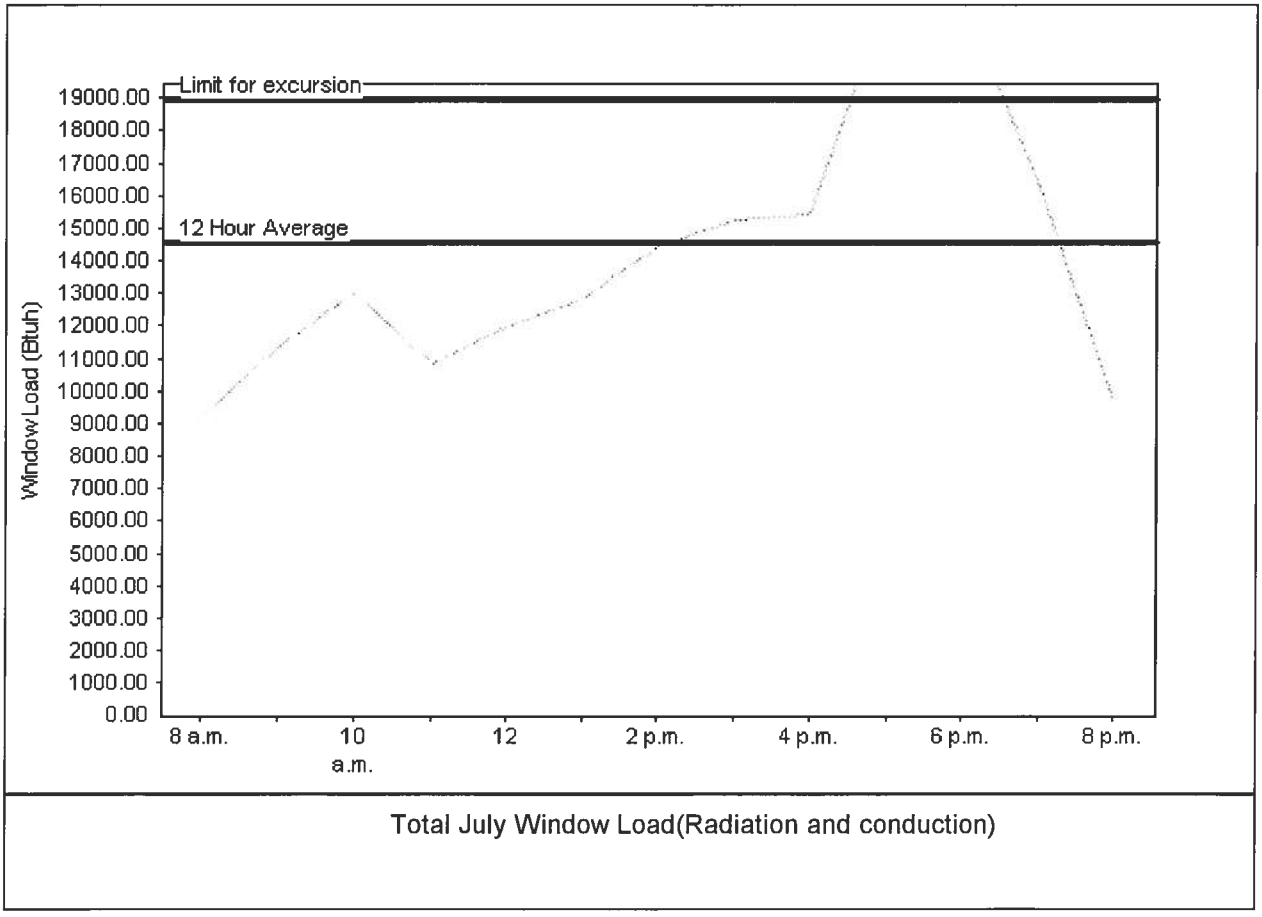
Class 3 Rating
Registration No. 0
Climate: North

8/16/2006

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	14577 Btu
Summer setpoint	75 F	Peak window load for July	22344 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	18950 Btu
Latitude	29 North	Window excursion (July)	3394 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

This application has glass areas that produce large heat gains for part of the day. Variable air volume devices are required to overcome spikes in solar gain for one or more rooms. Install a zoned system or provide zone control for problem rooms. Single speed equipment may not be suitable for the application.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY:
DATE: 8-16-06

PRODUCT APPROVAL SPECIFICATION SHEET

Location:_____ **Project Name:**_____

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

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up	N/A		
5. Automatic	N/A		
6. Other	—		
B. WINDOWS			
1. Single hung	Capital / Jordan		FL 675 / FL 1318-R1
2. Horizontal Slider	" "		FL 685 / FL 1384-R1
3. Casement	—		
4. Double Hung	—		
5. Fixed	C / J		FL 681 / FL 1383-R1
6. Awning	—		
7. Pass -through	—		
8. Projected	—		
9. Mullion	—		
10. Wind Breaker	—		
11 Dual Action	—		
12. Other			
C. PANEL WALL			
1. Siding	Hardy Plank		FL 889-R1
2. Soffits	Ashley Aluminum		FL 4468
3. EIFS	—		
4. Storefronts	—		
5. Curtain walls	—		
6. Wall louver	—		
7. Glass block	—		
8. Membrane	—		
9. Greenhouse	—		
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	Elk / Certainteed		FL 728 R1 / 2355 R1
2. Underlayments	Felt		FL [illegible]
3. Roofing Fasteners	Nails		ROP 3178
4. Non-structural Metal Rf	—		
5. Built-Up Roofing	—		
6. Modified Bitumen	—		
7. Single Ply Roofing Sys	—		
8. Roofing Tiles	—		
9. Roofing Insulation	—		
10. Waterproofing	—		
11. Wood shingles /shakes	—		
12. Roofing Slate	—		

Notice of Treatment 12296

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

Address: Baya Ave

City Lake City Phone 752 1703

Site Location: Subdivision Forest Country

Lot # 6 Block# A2 Permit # 24986

Address 304 SW Short Leaf

Product used	**Active Ingredient**	**% Concentration**
❑ Premise	Imidacloprid	0.1%
❑ Termidor	Fipronil	0.12%
❑ Bora Care ✓	Disodium Octaborate Tetrahydrate	23.0%

Type treatment: ❑ Soil ❑ Wood ✓

Area Treated	**Square feet**	**Linear feet**	**Gallons Applied**
Dwelling	4076	974	8

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

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

12/15/06	1230	F254/F289
Date	Time	Print Technician's Name

Remarks: ____________________

Applicator - White Permit File - Canary Permit Holder - Pink

10/05 ©

CERTIFICATE OF 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 21-4S-16-03080-007 **Building permit No.** 000024986

Use Classification SFD,UTILITY **Fire:** 33.48

Permit Holder BRYAN ZECHER **Waste:** 100.50

Owner of Building ROSE-MARIA WILSON **Total:** 133.98

Location: 304 SW SHORT LEAF DRIVE

Date: 04/13/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)