

DATE 03/03/2004

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT**000021579**

APPLICANT JACKIE NORRIS

PHONE 758.3663

ADDRESS POB 3271

LAKE CITY

FL 32056

OWNER FRED HOWELL

PHONE

ADDRESS 12337 SE COUNTY ROAD C-245

LULU

FL 32061

CONTRACTOR JOHN D. NORRIS

PHONE 758.3663

LOCATION OF PROPERTY 41-SOUTH TO C-349, R GO TO C-245 R, 1/4 MILE ON LEFT.

TYPE DEVELOPMENT SFD & UTILITY

ESTIMATED COST OF CONSTRUCTION

00

HEATED FLOOR AREA 1456.00

TOTAL AREA

HEIGHT 16.00

STORIES 1

FOUNDATION CONC

WALLS FRAMED

ROOF PITCH 6'12

FLOOR CONC

LAND USE & ZONING A-3

MAX HEIGHT 35

Minimum Set Back Requirements: STREET-FRONT 30.00

REAR 25.00

SIDE 25.00

NO. EX D.U.

FLOOD ZONE X

DEVELOPMENT PERMIT NO.

PARCEL ID 25-5S-17-09378-000

SUBDIVISION

LOT BLOCK PHASE

UNIT

TOTAL ACRES 3.36

RG0066597

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

EXISTING

04-0220-N

BLK

HD

N

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: 1 FOOT ABOVE ROAD

OLD HOUSE WILL BE TORN DOWN, PORTION OF IT WILL BE USED AS A CARPORT

HOUSE BURNT NO CHARGE FOR PERMIT

Check # or Cash NA

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

date/app. by

Pool

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$.00

CERTIFICATION FEE \$.00

SURCHARGE FEE \$.00

MISC. FEES \$.00

ZONING CERT. FEE \$

FIRE FEE \$

WASTE FEE \$

FLOOD ZONE DEVELOPMENT FEE \$

CULVERT FEE \$

TOTAL FEE \$ 116.00

INSPECTORS OFFICE

CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County
Building Permit Application

Date _____

21579

Application No. 0802-61

Applicants Name & Address John Norris 351 NW Corwin Gln Lake City, FL 32055 Phone 758-3663

Owners Name & Address Fred Howell 12337 SE County Road 245 Lake FL Phone _____

Fee Simple Owners Name & Address _____ Phone _____

Contractors Name & Address John NORRIS Construction 351 NW Corwin Gln Lake City, FL Phone 758-3663

Legal Description of Property A Part of the E 1/2 of SE 1/4 Section 25, Township 5 South Range 17 East Columbia County

Location of Property 41 South to 349 to 245 1/4 mile on left

Tax Parcel Identification No. 25-55-17-09378-000 Hx Estimated Cost of Construction \$ 70,000

Type of Development Residential SFD Number of Existing Dwellings on Property _____

Comprehensive Plan Map Category A-3 Zoning Map Category A-3

Building Height 16' Number of Stories 1 Floor Area 1456 Total Acreage in Development 10 ac

Distance From Property Lines (Set Backs) Front 229' Side 47' Rear 54' Street 229'

Flood Zone X Certification Date _____ Development Permit N/A

Bonding Company Name & Address N/A

Architect/Engineer Name & Address Freeman 305 E Duval Lake City FL

Mortgage Lenders Name & Address N/A

Application is hereby made to obtain a permit to do the 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 will 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 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.

John Norris
Owner or Agent (Including contractor)

John Norris
Contractor

Contractor License Number _____

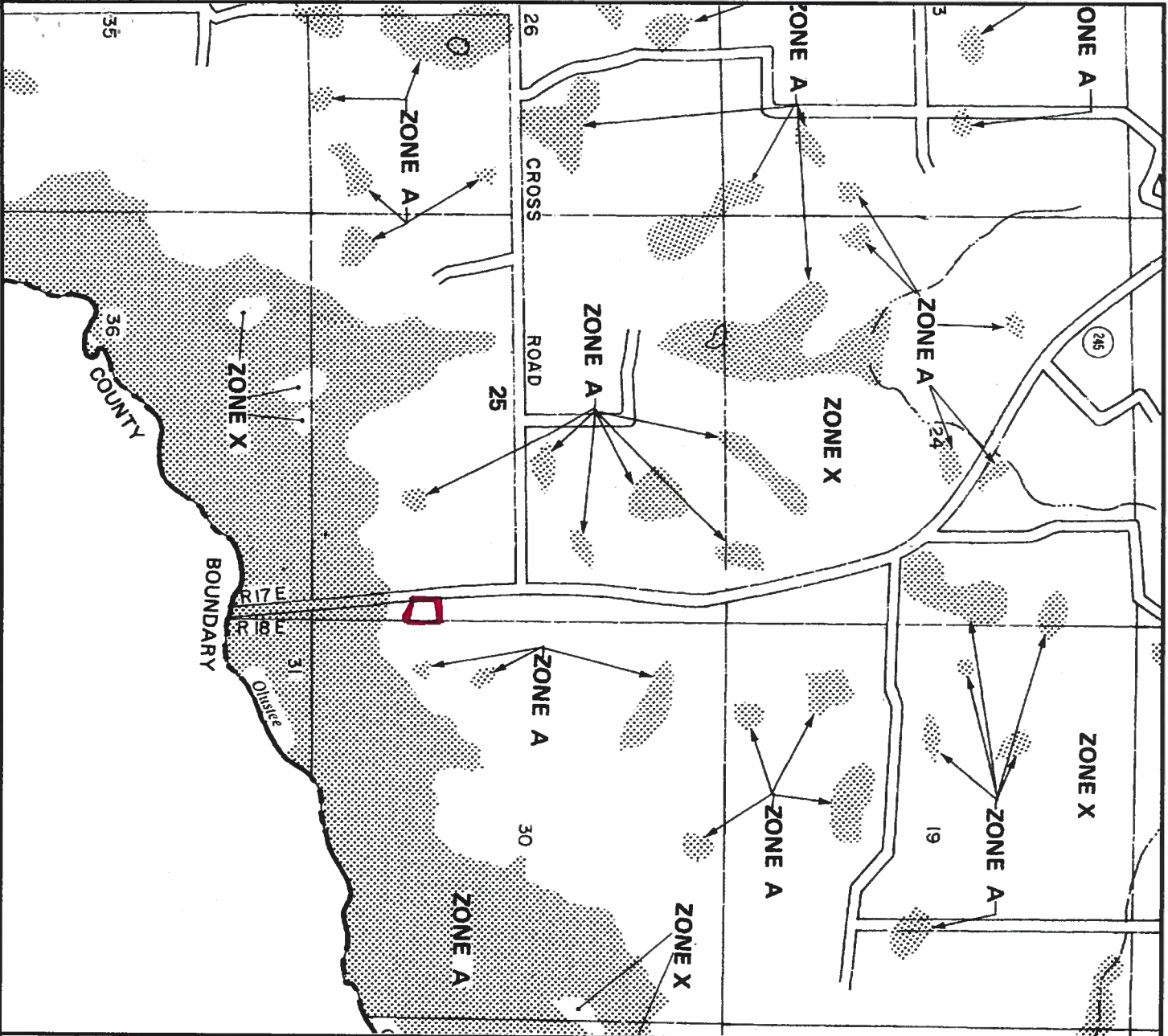
STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me
this _____ day of _____ by _____

STATE OF FLORIDA
COUNTY OF COLUMBIA
Sworn to (or affirmed) and subscribed before me
this _____ day of _____ by _____

Personally Known _____ OR Produced Identification

Personally Known _____ OR Produced Identification

0402-61



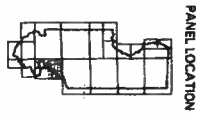
APPROXIMATE SCALE IN FEET
0 2000

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 250 OF 290



COMMUNITY-PANEL NUMBER
120070 0250 B
EFFECTIVE DATE:
JANUARY 6, 1988



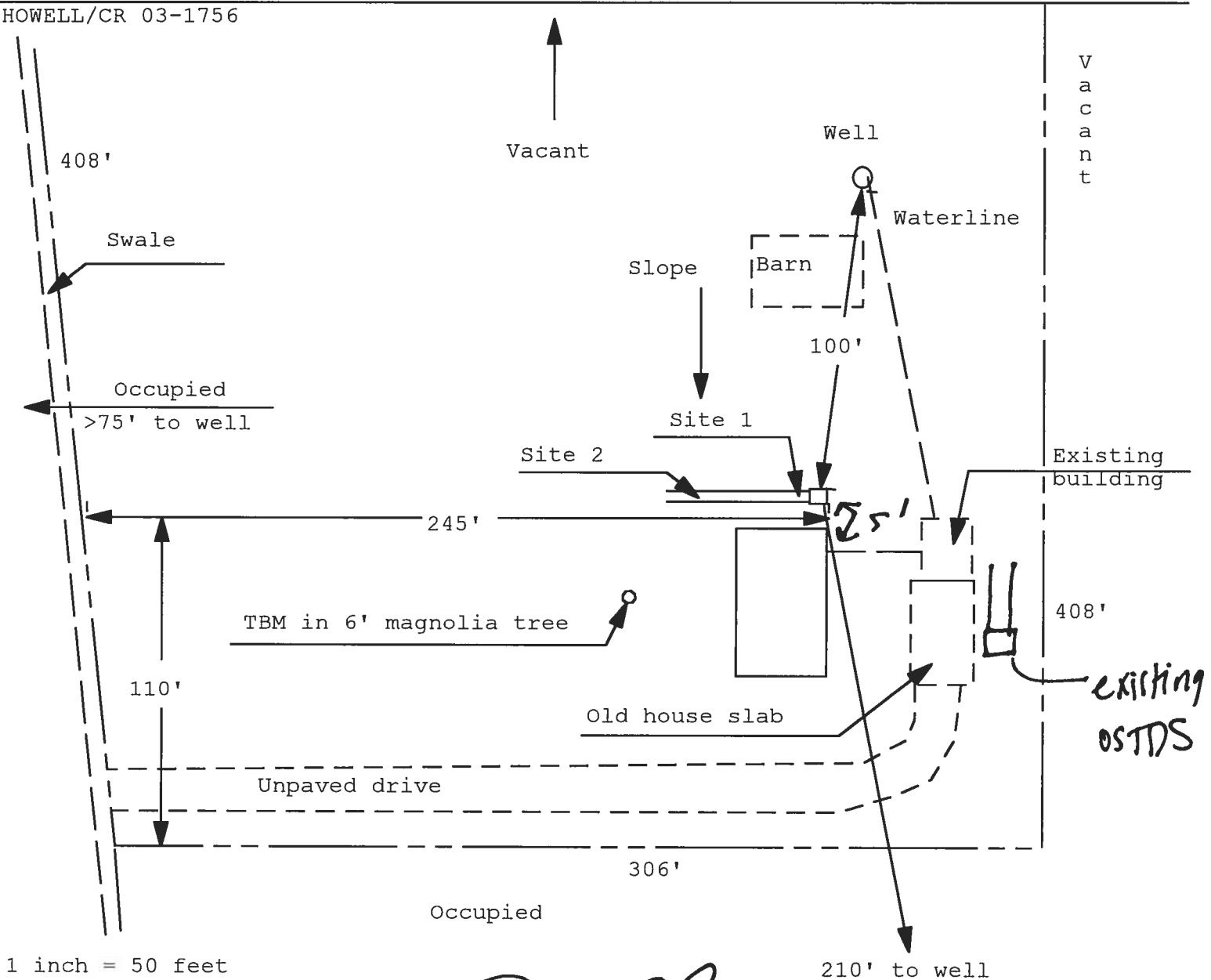
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT Version 1.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at www.fema.gov/nifmsd.

Application for Onsite Sewage Disposal System
Construction Permit. Part II Site Plan
Permit Application Number: 04-0220N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HOWELL/CR 03-1756



Site Plan Submitted By Paul Lopez Date 2/10/04
Plan Approved Not Approved Date 2/10/04
By Paul Lopez Salbi M. Lopez CPHU
Notes: EST. COLUMBIA

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **The Columbia**
Address: **CR 245**
City, State: **Lake City, FL 32055-**
Owner:
Climate Zone: **North**

Builder: **John Norris**
Permitting Office: **Columbia County**
Permit Number: **21579**
Jurisdiction Number: **221000**

- | | | | |
|--|--------------------------------|--|-------------------|
| 1. New construction or existing | New | 12. Cooling systems | |
| 2. Single family or multi-family | Single family | a. Central Unit | Cap: 24.0 kBtu/hr |
| 3. Number of units, if multi-family | 1 | | SEER: 12.00 |
| 4. Number of Bedrooms | 3 | b. N/A | |
| 5. Is this a worst case? | Yes | c. N/A | |
| 6. Conditioned floor area (ft ²) | 1456 ft ² | 13. Heating systems | |
| 7. Glass area & type | | a. Electric Heat Pump | Cap: 24.0 kBtu/hr |
| a. Clear - single pane | 0.0 ft ² | | HSPF: 7.40 |
| b. Clear - double pane | 144.0 ft ² | b. N/A | |
| c. Tint/other SHGC - single pane | 0.0 ft ² | c. N/A | |
| d. Tint/other SHGC - double pane | 0.0 ft ² | 14. Hot water systems | |
| 8. Floor types | | a. Electric Resistance | Cap: 50.0 gallons |
| a. Slab-On-Grade Edge Insulation | R=0.0, 160.0(p) ft | | EF: 0.95 |
| b. N/A | | b. N/A | |
| c. N/A | | c. Conservation credits | |
| 9. Wall types | | (HR-Heat recovery, Solar | |
| a. Face Brick, Wood, Exterior | R=13.0, 1104.0 ft ² | DHP-Dedicated heat pump) | |
| b. Frame, Wood, Adjacent | R=13.0, 176.0 ft ² | 15. HVAC credits | |
| c. N/A | | (CF-Ceiling fan, CV-Cross ventilation, | |
| d. N/A | | HF-Whole house fan, | |
| e. N/A | | PT-Programmable Thermostat, | |
| 10. Ceiling types | | MZ-C-Multizone cooling, | |
| a. Under Attic | R=30.0, 1476.0 ft ² | MZ-H-Multizone heating) | |
| b. N/A | | | |
| c. N/A | | | |
| 11. Ducts | | | |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 52.0 ft | | |
| b. N/A | | | |

Glass/Floor Area: 0.10

Total as-built points: 18778

Total base points: 24064

PASS

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

PREPARED BY: Willie H. Fre

DATE: 2/13/07

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

OWNER/AGENT: _____

DATE: _____

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



BUILDING OFFICIAL: _____

DATE: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: CR 245, Lake City, FL, 32055-

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	1456.0	20.04	5252.1	Double, Clear	E	1.5	6.0	15.0	40.22	0.91	550.7
				Double, Clear	E	1.5	4.0	9.0	40.22	0.82	295.3
				Double, Clear	W	1.5	6.0	30.0	36.99	0.91	1013.5
				Double, Clear	W	6.0	6.0	30.0	36.99	0.53	588.5
				Double, Clear	N	1.5	6.0	30.0	19.22	0.94	541.2
				Double, Clear	E	1.5	6.0	30.0	40.22	0.91	1101.4
				As-Built Total:				144.0			
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	=	Points	
Adjacent	176.0	0.70	123.2	Face Brick, Wood, Exterior	13.0		1104.0	0.35	386.4		
Exterior	1104.0	1.70	1876.8	Frame, Wood, Adjacent	13.0		176.0	0.60	105.6		
Base Total:		1280.0	2000.0	As-Built Total:		1280.0		492.0			
DOOR TYPES Area X BSPM = Points				Type			Area X	SPM	=	Points	
Adjacent	17.7	2.40	42.5	Exterior Insulated			40.0	4.10	164.0		
Exterior	40.0	6.10	244.0	Adjacent Insulated			17.7	1.60	28.4		
Base Total:		57.7	286.5	As-Built Total:		57.7		192.4			
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM X	SCM =	Points	
Under Attic	1456.0	1.73	2518.9	Under Attic	30.0		1476.0	1.73 X	1.00	2553.5	
Base Total:		1456.0	2518.9	As-Built Total:		1476.0		2553.5			
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	=	Points	
Slab	160.0(p)	-37.0	-5920.0	Slab-On-Grade Edge Insulation	0.0		160.0(p)	-41.20	-6592.0		
Raised	0.0	0.00	0.0								
Base Total:		-5920.0	As-Built Total:		160.0		-6592.0				
INFILTRATION Area X BSPM = Points						Area X		SPM	=	Points	
		1456.0	10.21			1456.0		10.21	14865.8		

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: CR 245, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT											
Summer Base Points:		19003.3		Summer As-Built Points:					15602.1						
Total Summer Points	X	System Multiplier	=	Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier	X	System Multiplier	X	Credit Multiplier	=	Cooling Points
					(DM x DSM x AHU)										
19003.3		0.4266		8106.8	15602.1		1.000		(1.090 x 1.147 x 0.91)		0.284		1.000		5048.6
					15602.1		1.00		1.138		0.284		1.000		5048.6

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: CR 245, Lake City, FL, 32055-

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	1456.0	12.74	3338.9	Double, Clear	E	1.5	6.0	15.0	9.09	1.04	141.2
				Double, Clear	E	1.5	4.0	9.0	9.09	1.07	87.9
				Double, Clear	W	1.5	6.0	30.0	10.77	1.02	330.5
				Double, Clear	W	6.0	6.0	30.0	10.77	1.17	376.8
				Double, Clear	N	1.5	6.0	30.0	14.30	1.00	430.1
				Double, Clear	E	1.5	6.0	30.0	9.09	1.04	282.4
				As-Built Total:				144.0			
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	176.0	3.60	633.6	Face Brick, Wood, Exterior	13.0		1104.0	3.17	3505.2		
Exterior	1104.0	3.70	4084.8	Frame, Wood, Adjacent	13.0		176.0	3.30	580.8		
Base Total: 1280.0 4718.4				As-Built Total:				1280.0 4086.0			
DOOR TYPES Area X BWPM = Points				Type			Area X WPM = Points				
Adjacent	17.7	11.50	203.8	Exterior Insulated			40.0	8.40	336.0		
Exterior	40.0	12.30	492.0	Adjacent Insulated			17.7	8.00	141.8		
Base Total: 57.7 695.8				As-Built Total:				57.7 477.8			
CEILING TYPESArea X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1456.0	2.05	2984.8	Under Attic	30.0		1476.0	2.05 X 1.00	3025.8		
Base Total: 1456.0 2984.8				As-Built Total:				1476.0 3025.8			
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	160.0(p)	8.9	1424.0	Slab-On-Grade Edge Insulation	0.0		160.0(p)	18.80	3008.0		
Raised	0.0	0.00	0.0								
Base Total: 1424.0				As-Built Total:				160.0 3008.0			
INFILTRATION Area X BWPM = Points											
1456.0 -0.59 -859.0				1456.0 -0.59 -859.0							

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: CR 245, Lake City, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
Winter Base Points:		12302.8		Winter As-Built Points:						11387.5	
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
12302.8		0.6274	7718.8	^{11387.5} 11387.5		^{1.000} 1.00	^(1.069 x 1.169 x 0.93) 1.162	^{0.461} 0.461	^{1.000} 1.000	^{6098.6} 6098.6	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: CR 245, Lake City, FL, 32055-

PERMIT #:

BASE					AS-BUILT							
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	= Total Multiplier	
3		2746.00		8238.0	50.0	0.95	3		1.00	2543.66	1.00	7631.0
					As-Built Total:							7631.0

CODE COMPLIANCE STATUS										
BASE						AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
8107		7719		8238	24064	5049		6099		7631 18778

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: CR 245, Lake City, FL, 32055-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.0

The higher the score, the more efficient the home.

, CR 245, Lake City, FL, 32055-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 24.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1456 ft ²		
7. Glass area & type		13. Heating systems	
a. Clear - single pane	0.0 ft ²	a. Electric Heat Pump	Cap: 24.0 kBtu/hr
b. Clear - double pane	144.0 ft ²		HSPF: 7.40
c. Tint/other SHGC - single pane	0.0 ft ²	b. N/A	
d. Tint/other SHGC - double pane	0.0 ft ²	c. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 160.0(p) ft	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.95
9. Wall types		b. N/A	
a. Face Brick, Wood, Exterior	R=13.0, 1104.0 ft ²	c. Conservation credits	
b. Frame, Wood, Adjacent	R=13.0, 176.0 ft ²	(HR-Heat recovery, Solar	
c. N/A		DHP-Dedicated heat pump)	
d. N/A		15. HVAC credits	
e. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
10. Ceiling types		HF-Whole house fan,	
a. Under Attic	R=30.0, 1476.0 ft ²	PT-Programmable Thermostat,	
b. N/A		RB-Attic radiant barrier,	
c. N/A		MZ-C-Multizone cooling,	
11. Ducts		MZ-H-Multizone heating)	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 52.0 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.*

EnergyGauge® (Version: FLRCPB v3.21)

Residential System Sizing Calculation

Summary

CR 245
Lake City, FL 32055-

Project Title:
The Columbia

Code Only
Professional Version
Climate: North

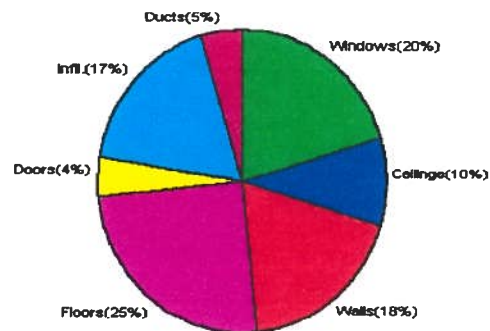
2/13/2004

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	98 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	23 F
Total heating load calculation	20073 Btuh	Total cooling load calculation	20532 Btuh
Submitted heating capacity	24000 Btuh	Submitted cooling capacity	24000 Btuh
Submitted as % of calculated	119.6 %	Submitted as % of calculated	116.9 %

WINTER CALCULATIONS

Winter Heating Load (for 1456 sqft)

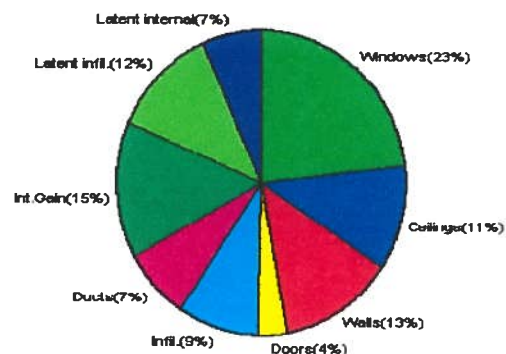
Load component		Load
Window total	144 sqft	4075 Btuh
Wall total	1280 sqft	3704 Btuh
Door total	58 sqft	900 Btuh
Ceiling total	1476 sqft	1919 Btuh
Floor total	160 ft	5056 Btuh
Infiltration	81 cfm	3463 Btuh
Subtotal		19117 Btuh
Duct loss		956 Btuh
TOTAL HEAT LOSS		20073 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1456 sqft)

Load component		Load
Window total	144 sqft	4758 Btuh
Wall total	1280 sqft	2616 Btuh
Door total	58 sqft	720 Btuh
Ceiling total	1476 sqft	2303 Btuh
Floor total		0 Btuh
Infiltration	71 cfm	1787 Btuh
Internal gain		3000 Btuh
Subtotal(sensible)		15184 Btuh
Duct gain		1518 Btuh
Total sensible gain		16702 Btuh
Latent gain(infiltration)		2449 Btuh
Latent gain(internal)		1380 Btuh
Total latent gain		3829 Btuh
TOTAL HEAT GAIN		20532 Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: William H. Kiser

DATE: 2/13/04

System Sizing Calculations - Winter

Residential Load - Component Details

CR 245
Lake City, FL 32055-

Project Title:
The Columbia

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F

2/13/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
2	2, Clear, Metal, DEF	N	9.0	28.3	255 Btuh
3	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
4	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
5	2, Clear, Metal, DEF	W	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	N	30.0	28.3	849 Btuh
Window Total			144		4075 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1104	3.1	3422 Btuh
2	Frame - Adjacent	13.0	176	1.6	282 Btuh
Wall Total			1280		3704 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		40	18.3	733 Btuh
2	Insulated - Adjac		18	9.4	167 Btuh
Door Total			58		900Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1476	1.3	1919 Btuh
Ceiling Total			1476		1919Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	160.0 ft(p)	31.6	5056 Btuh
Floor Total			160		5056 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	12084(sqft)	81	3463 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				81	3463 Btuh

Totals for Heating	Subtotal	19117 Btuh
	Duct Loss(using duct multiplier of 0.05)	956 Btuh
	Total Btuh Loss	20073 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)

System Sizing Calculations - Summer

Residential Load - Component Details

CR 245
Lake City, FL 32055-

Project Title:
The Columbia

Code Only
Professional Version
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 23.0 F 2/13/2004

Window	Type	Overhang	Window Area(sqft)			HTM		Load
	Panes/SHGC/U/InSh/ExSh Ornt		Gross	Shaded	Unshaded	Shaded	Unshaded	
1	2, Clear, DEF, N, N	N	15.0	0.0	15.0	24	24	360 Btuh
2	2, Clear, DEF, N, N	N	9.0	0.0	9.0	24	24	216 Btuh
3	2, Clear, DEF, N, N	S	30.0	30.0	0.0	24	39	720 Btuh
4	2, Clear, DEF, N, N	S	30.0	30.0	0.0	24	39	720 Btuh
5	2, Clear, DEF, N, N	W	30.0	4.0	26.0	24	74	2022 Btuh
6	2, Clear, DEF, N, N	N	30.0	0.0	30.0	24	24	720 Btuh
Window Total			144					4758 Btuh
Walls		R-Value	Area		HTM		Load	
1	Frame - Exterior	13.0	1104.0		2.1		2363 Btuh	
2	Frame - Adjacent	13.0	176.0		1.4		253 Btuh	
Wall Total			1280.0				2616 Btuh	
Doors		R-Value	Area		HTM		Load	
1	Insulated - Exter		40.0		12.5		499 Btuh	
2	Insulated - Adjac		17.7		12.5		221 Btuh	
Door Total			57.7				720 Btuh	
Ceilings		R-Value	Area		HTM		Load	
1	Under Attic/Dark	30.0	1476.0		1.6		2303 Btuh	
Ceiling Total			1476.0				2303 Btuh	
Floors		R-Value	Size		HTM		Load	
1	Slab-On-Grade Edge Insulation	0.0	160.0 ft(p)		0.0		0 Btuh	
Floor Total			160.0				0 Btuh	
Infiltration		ACH	Volume		CFM=		Load	
Natural		0.35	12084		70.6		1787 Btuh	
Mechanical					0		0 Btuh	
Infiltration Total					71		1787 Btuh	

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

Totals for Cooling	Subtotal	15184 Btuh
	Duct gain(using duct multiplier of 0.10)	1518 Btuh
	Total sensible gain	16702 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	2449 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		20532 Btuh

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

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

Tax Parcel ID Number 25 55 17 09378 000

21579

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

See attached - Exhibit A.

General description of improvement: ~~4150~~ Construction of new home

Owner Name & Address Fred Howell
P.O. Box 327 Interest in Property owner

Name & Address of Fee Simple Owner (if other than owner): John Norris
351 NW Corwin Gln.

Contractor Name John Norris Phone Number 758-3663
Address 351 NW Corwin Gln.

Surety Holders Name N/A Phone Number _____
Address _____

Amount of Bond _____

Lender Name N/A Phone Number _____
Address _____

Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:

Name John Norris Phone Number 758-3663
Address 351 NW Corwin Gln. Lake City, FL.

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

Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording,
(Unless a different date is specified) 3/4/05

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

[Signature]
Signature of Owner

Sworn to (or affirmed) and subscribed before
day of 3-4, 2004

NOTARY STAMP/SEAL



My Commission DD266394
Expires November 06, 2007

Jacqueline Norris
Signature of Notary

This Warranty Deed Made the 19th day of March A. D. 19 65 by
B. F. HARDEN and BESSIE HARDEN, his wife,
hereinafter called the grantor, to BETTY RUTH HARDEN HOWELL

whose postoffice address is Route 3, Lake City, Florida
hereinafter called the grantee:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth: That the grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the grantee, all of that certain land situate in Columbia County, Florida, viz:

Commence at the Southeast corner of Section 25, Township 5 South, Range 17 East, and run thence North 2 degrees 15 minutes 30 seconds West, along the East line of said Section 25, 1315.28 feet to the South line of NE $\frac{1}{4}$ of SE $\frac{1}{4}$ of said Section 25, for a POINT OF BEGINNING; thence run North 88 degrees 25 minutes 39 seconds West along said South line, 317.15 feet to the East Right of Way line of State Road No. 245; thence run North 6 degrees 07 minutes 19 seconds West along said Right of way line, 394.30 feet; thence run South 88 degrees 25 minutes 39 seconds East, parallel to said South line 344.5 feet to the said East line of Section 25; thence run South 2 degrees 15 minutes 30 seconds East, along said East line, 392.0 feet to the POINT OF BEGINNING said land lying in the NE $\frac{1}{4}$ of SE $\frac{1}{4}$, Section 25, Township 5 South, Range 17 East and containing 3.08 acres, more or less.

NOTE: Grantors herein reserve unto themselves a life estate in and to the above described property.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in any-wise appertaining.

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

And the grantor hereby covenants w
in fee simple; that the grantor has good ri
grantor hereby fully warrants the title to s
all persons whomsoever; and that said lan
to December 31, 19 64.

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

Signed, sealed and delivered in our presence:

Vessie M. Whit
Muffin Crews

B. F. Harden L.S.
Bessie Harden L.S.
L.S.
L.S.

STATE OF FLORIDA
COUNTY OF COLUMBIA }

I HEREBY CERTIFY that on this day, before me, an officer duly authorized in the State aforesaid and in the County aforesaid to take acknowledgments, personally appeared

SPACE BELOW FOR RECORDERS USE

FILE NO. 5316
RECORDED
BOOK 181 PAGE 217



COLUMBIA
COUNTY

COLUMBIA COUNTY OFFICE 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 25-5S-17-09378-000

Building permit No. 000021579

Use Classification SFD & UTILITY

Fire:

Permit Holder JOHN D. NORRIS

Waste:

Owner of Building FRED HOWELL

Total: .00

Location: 12337 SE COUNTY RD C-245

Date: 06/07/2004

Harry Bickel

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)



FOUNDED 1949

CORPORATE HEADQUARTERS:

P.O. BOX 5389
116 N.W. 16TH AVENUE
GAINESVILLE, FL 32602-5389

(352) 378-2881
FAX (352) 378-2791

SCIENTIFIC PEST CONTROL DIRECTED BY GRADUATE ENTOMOLOGISTS

Complete Pest Control Service
Member Florida & National Pest Control Associations

10747
FRED HOWELL

Reply to: 536 SE Baya Dr
Lake City, FL 32025
Phone (386) 752-1703 Fax (386) 752-0171

SOIL TREATMENT CERTIFICATION

Owner:	Permit Number:
FRED HOWELL	21678 21579
Location:	Block:
Subdivision:	Street Address:
City:	12337 SE CR 245
County:	Columbia
General Contractor:	Date:
JOHN NORRIS CONSTRUCTION	06/07/04
Product Used:	Time:
DOURBAN TC	10:00 AM
Area treated:	Name of applicator:
EXTERIOR OF FOUNDATION	ANDY PARRISH
Chemical used:	Applicator ID Number:
DOURBAN TC	JE117932
Number of gallons used:	% Concentration:
2	.05
Method of termite prevention treatment: Soil Treatment	

The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services.
This form is proof of complete treatment for Certificate of Occupancy or Closing.

THIS IS PROOF OF WARRANTY

Warranty and Treatment Certifications Have Been Issued.

Authorized Signature:	Date:
<i>Patricia Schmidt</i>	6-7-04

BRANCHES:

• Crystal River • Daytona Beach • Ft. Walton Beach • Jacksonville South • Jacksonville West • Lake City • Milton • Ocala • Orlando • Palatka • Panama City • Pensacola • Starke • St. Augustine • Tallahassee • Winter Haven • Leesburg • Kissimmee •

Notice of Treatment

Applicator Florida Pest Control & Chemical Co.

Address _____

City _____ Phone _____

Site Location Subdivision _____

Lot# _____ Block# _____ Permit# _____

Address _____

AREAS TREATED

Print Technician's

Area Treated Date Time Gal. Name

Main Body

Patio/s #

Stoop/s #

Porch/s #

Brick Veneer

Extension Walls

A/C Pad

Walk/s #

Exterior of Foundation

Driveway Apron

Out Building

Tub Trap/s

(Other)

Name of Product Applied _____ %

Remarks _____

Notice of Treatment

Applicator Florida Pest Control & Chemical Co.

Address _____

City _____ Phone _____

Site Location Subdivision _____

Lot# _____ Block# _____ Permit# _____

Address _____

AREAS TREATED

Print Technician's

Area Treated Date Time Gal. Name

Main Body

Patio/s #

Stoop/s #

Porch/s #

Brick Veneer

Extension Walls

A/C Pad

Walk/s #

Exterior of Foundation

Driveway Apron

Out Building

Tub Trap/s

(Other)

Name of Product Applied _____ %

Remarks _____