

DATE09/17/2004

Columbia County Building Permit

PERMIT000022319

This Permit Expires One Year From the Date of Issue

APPLICANTBRYAN ZECHER

PHONE752-8653

ADDRESSP.O. BOX 815

LAKE CITYFL32056

OWNERJULIUS & PEARLNITA MITCHELL

PHONE752-8653

ADDRESS2483SW OLD WIRE ROAD

LAKE CITYFL32024

CONTRACTORBRYAN ZECHER

PHONE

LOCATION OF PROPERTY47S, TL WALTER LITTLE ROAD, ACROSS 240, TURNS INTO

OLD WIRE ROAD, 2.2 ON LEFT

TYPE DEVELOPMENTSFD,UTILITY

ESTIMATED COST OF CONSTRUCTION184950.00

HEATED FLOOR AREA3699.00

TOTAL AREA4885.00

HEIGHT.00

STORIES1

FOUNDATIONCONC

WALLSFRAMED

ROOF PITCH6/12

FLOORSLAB

LAND USE & ZONINGA-3

MAX. HEIGHT22

Minimum Set Back Requirments:

STREET-FRONT30.00

REAR25.00

SIDE25.00

NO. EX.D.U.0

FLOOD ZONEX PP

DEVELOPMENT PERMIT NO.

PARCEL ID24-5S-16-03707-108

SUBDIVISIONPARADISE SOUTH

LOT8

BLOCK

PHASE

UNIT

TOTAL ACRES5.00

000000407

Y

CBC054575

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

WAIVER

04-0906-N

BK

JK

Y

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS:ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash1282

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power

Foundation

Monolithic

date/app. by

date/app. by

date/app. by

Under slab rough-in plumbing

Slab

Sheathing/Nailing

date/app. by

date/app. by

date/app. by

Framing

Rough-in plumbing above slab and below wood floor

date/app. by

date/app. by

Electrical rough-in

Heat & Air Duct

Peri. beam (Lintel)

date/app. by

date/app. by

date/app. by

Permanent power

C.O. Final

Culvert

date/app. by

date/app. by

date/app. by

M/H tie downs, blocking, electricity and plumbing

Pool

date/app. by

date/app. by

Reconnection

Pump pole

Utility Pole

date/app. by

date/app. by

date/app. by

M/H Pole

Travel Trailer

Re-roof

date/app. by

date/app. by

date/app. by

BUILDING PERMIT FEE \$925.00

CERTIFICATION FEE \$24.43

SURCHARGE FEE \$24.43

MISC. FEES \$.00

ZONING CERT. FEE \$50.00

FIRE FEE \$

WASTE FEE \$

FLOOD ZONE DEVELOPMENT FEE \$

CULVERT FEE \$

TOTAL FEE1023.86

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 INCONVIENCE, 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.



For Office Use Only Application # 0408-666 Date Received 8/20/04 By GP Permit # 22319 | 407  
Application Approved by - Zoning Official BLK Date 30.08.04 Plans Examiner \_\_\_\_\_ Date \_\_\_\_\_  
Flood Zone X per plot Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3  
Comments \_\_\_\_\_

Est, ~~well teller?~~

Property ID Number 24-55-16-03707-108 Estimated Cost of Construction \$215,000-  
Subdivision Name Paradise South Lot B Block      Unit      Phase       
Driving Directions 1547 South to Water Little Rd, T/L go across 240  
turns into Old Wire Rd, 2.2 miles on left

Type of Construction New have SFD Number of Existing Dwellings on Property 0  
Total Acreage Sacre Lot Size 323x675 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive  
Actual Distance of Structure from Property Lines - Front 135 Side 127 Side 127 Rear 440  
Total Building Height 22' Number of Stories 1 Heated Floor Area 3699 Roof Pitch 6/12

**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.

Contractor Signature \_\_\_\_\_  
Contractors License Number 0000000000  
Competency Card Number GALE TEDDER  
MY COMMISSION # 00 333690  
EXPIRES: June 28, 2008  
Bonded Thru Notary Public Underwriters

NOTARY STATE SEAL

*Gale Tedder*

Notary Signature \_\_\_\_\_

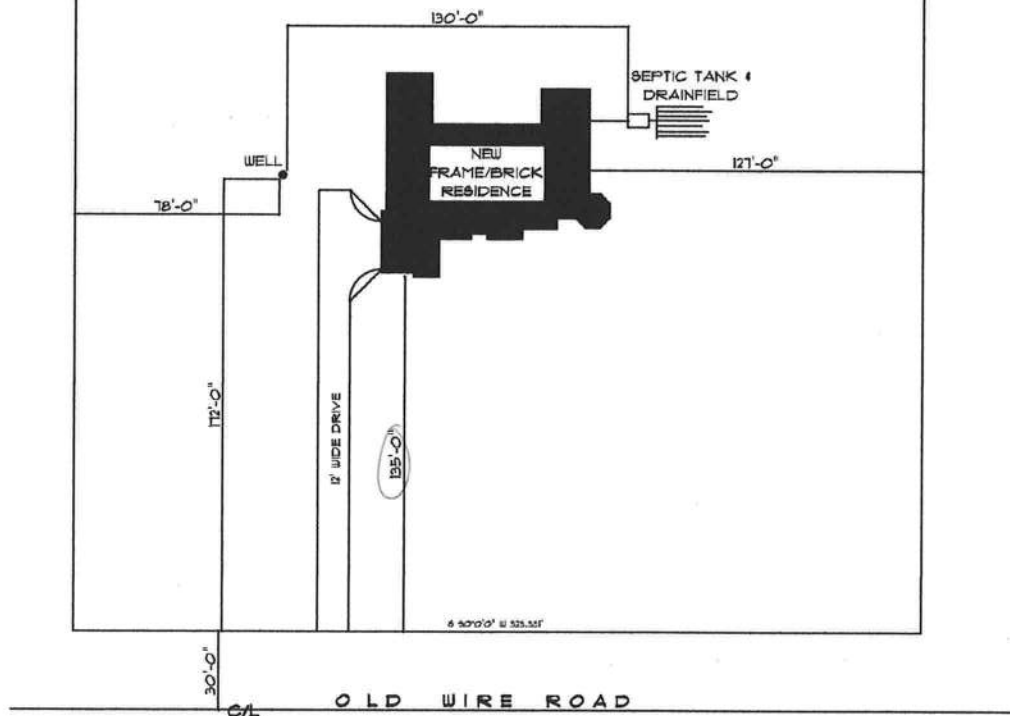
6 30'0"0" U 515.468'

LOT # 8

5 ACRES  
IN  
PARADISE SOUTH

5 0'0"0" U 515.331'

5 0'0"0" U 515.333'



• SITE PLAN •

1" = 40'

This Instrument Prepared By:

Address:

TransLand Financial Services, Inc.  
2701 Maitland Center Pkwy, Ste. 300  
Maitland, FL 32751

Inst: 2004017747 Date: 08/02/2004 Time: 12:50

MLK DC, P. DeWitt Cason, Columbia County B: 1022 P: 1282

### Notice of Commencement

(Prepare in Duplicate)

To whom it may concern:

The undersigned hereby informs all concerned that improvements will be made to certain real property, and in accordance with section 713.13 of the Florida Statutes, the following information is stated in this NOTICE OF COMMENCEMENT.

Legal Description of property (include Street Address, if available)

**LOT 8, PARADISE SOUTH, A SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 6, PAGES 67-67A, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.**

General description of improvements  
**SINGLE FAMILY DWELLING**

Owner **JULIUS C. MITCHELL, A MARRIED MAN, JOINED BY HIS SPOUSE, PEARLNITA M. MITCHELL**

Address **545 AUBURN CIRCLE, EAST, LAKE CITY, FL 32056**

Owner's interest in site of the improvements

Fee Simple Title holder (if other than owner)

Name

Address

Contractor: **Bryan Zecher Construction, Inc.**

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

Surety (if any)

Address

Amount of Bond: \$

Any person making a loan for the construction of the improvements:

Name **TRANSLAND FINANCIAL SERVICES, INC**

Address **2701 MAITLAND CENTER PKWY, STE. 300, MAITLAND, FL 32751**

Person within the State of Florida designated by owner upon whom notices or other documents may be served:

Name

Address

In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (h), Florida Statutes. (Fill in at Owner's option).

Name **TRANSLAND FINANCIAL SERVICES, INC**

Address **2701 MAITLAND CENTER PKWY, STE. 300, MAITLAND, FL 32751**

Owner

JULIUS C. MITCHELL

Who is/are personally known to me ☒ Who has/have produced \_\_\_\_\_ as identification and who ☐ did not take a oath.

SUBSCRIBED AND SWORN BEFORE ME THIS 29th day of July, 2004.

(Seal)

Margaida Castillo  
Notary Public



Columbia Cou:

PRINTED 6/23/2004 8:41  
APPR 1/29/2004 DF

TOTAL

L001 - 5.01 AC (FRONTS ON WALTER LITTLE RD)  
2004



**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT**



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name: **405042MitchellRes**  
Address: **Lot: , Sub: Emerald Lakes, Plat:**  
City, State: **Lake City, FL**  
Owner: **Mr. & Mrs. Mitchell**  
Climate Zone: **North**

Builder: **Bryan Zecher**  
Permitting Office:  
Permit Number: **22319**  
Jurisdiction Number: **221000**

- |  |                                |                       |
|--|--------------------------------|-----------------------|
| 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 (ft <sup>2</sup> ) | 3699 ft <sup>2</sup>           | ___                   |
| 7. Glass area & type                         | Single Pane                    | Double Pane           |
| a. Clear glass, default U-factor             | 0.0 ft <sup>2</sup>            | 530.0 ft <sup>2</sup> |
| b. Default tint                              | 0.0 ft <sup>2</sup>            | 0.0 ft <sup>2</sup>   |
| c. Labeled U or SHGC                         | 0.0 ft <sup>2</sup>            | 0.0 ft <sup>2</sup>   |
| 8. Floor types                               |                                |                       |
| a. Slab-On-Grade Edge Insulation             | R=0.0, 321.0(p) ft             | ___                   |
| b. N/A                                       |                                | ___                   |
| c. N/A                                       |                                | ___                   |
| 9. Wall types                                |                                |                       |
| a. Frame, Wood, Adjacent                     | R=13.0, 180.0 ft <sup>2</sup>  | ___                   |
| b. Frame, Wood, Exterior                     | R=13.0, 1894.0 ft <sup>2</sup> | ___                   |
| c. N/A                                       |                                | ___                   |
| d. N/A                                       |                                | ___                   |
| e. N/A                                       |                                | ___                   |
| 10. Ceiling types                            |                                |                       |
| a. Under Attic                               | R=30.0, 4083.0 ft <sup>2</sup> | ___                   |
| b. N/A                                       |                                | ___                   |
| c. N/A                                       |                                | ___                   |
| 11. Ducts                                    |                                |                       |
| a. Sup: Unc. Ret: Unc. AH: Garage            | Sup. R=6.0, 230.0 ft           | ___                   |
| b. Sup: Unc. Ret: Unc. AH: Interior          | Sup. R=6.0, 150.0 ft           | ___                   |

- |  |                   |     |
|--|-------------------|-----|
| 12. Cooling systems                    |                   |     |
| a. Central Unit                        | Cap: 37.0 kBtu/hr | ___ |
|  | SEER: 11.50       | ___ |
| b. Central Unit                        | Cap: 37.0 kBtu/hr | ___ |
|  | SEER: 11.50       | ___ |
| c. N/A                                 |                   | ___ |
| 13. Heating systems                    |                   |     |
| a. Electric Heat Pump                  | Cap: 37.0 kBtu/hr | ___ |
|  | HSPF: 7.20        | ___ |
| b. Electric Heat Pump                  | Cap: 37.0 kBtu/hr | ___ |
|  | HSPF: 7.20        | ___ |
| c. N/A                                 |                   | ___ |
| 14. Hot water systems                  |                   |     |
| a. Electric Resistance                 | Cap: 40.0 gallons | ___ |
|  | EF: 0.90          | ___ |
| b. N/A                                 |                   | ___ |
| c. Conservation credits                |                   | ___ |
| (HR-Heat recovery, Solar               |                   | ___ |
| DHP-Dedicated heat pump)               |                   | ___ |
| 15. HVAC credits                       |                   | ___ |
| (CF-Ceiling fan, CV-Cross ventilation, |                   | ___ |
| HF-Whole house fan,                    |                   | ___ |
| PT-Programmable Thermostat,            |                   | ___ |
| MZ-C-Multizone cooling,                |                   | ___ |
| MZ-H-Multizone heating)                |                   | ___ |

Glass/Floor Area: 0.14

Total as-built points: 47806

Total base points: 48277

## PASS

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

**PREPARED BY:** Evan Beamsley

**DATE:** 5/5/04 Evan Beamsley

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

**OWNER/AGENT:** [Signature]

**DATE:** 8/8/04

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:** \_\_\_\_\_

# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

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	3699.0	20.04	13343.0	Double, Clear	W	99.0	7.5	20.0	38.52	0.37	288.6
				Double, Clear	S	13.8	3.5	15.0	35.87	0.43	232.4
				Double, Clear	S	13.8	7.6	20.0	35.87	0.46	327.1
				Double, Clear	S	13.8	7.6	20.0	35.87	0.46	327.1
				Double, Clear	S	13.8	6.5	72.0	35.87	0.45	1157.3
				Double, Clear	E	99.0	7.5	10.0	42.06	0.36	150.1
				Double, Clear	S	1.5	4.5	16.0	35.87	0.78	445.3
				Double, Clear	W	1.5	6.5	36.0	38.52	0.93	1285.8
				Double, Clear	SW	1.5	6.5	18.0	40.16	0.90	653.3
				Double, Clear	W	1.5	6.5	18.0	38.52	0.93	642.9
				Double, Clear	NW	1.5	6.5	18.0	25.97	0.94	438.1
				Double, Clear	N	1.5	6.5	18.0	19.20	0.95	327.4
				Double, Clear	NE	1.5	6.5	18.0	29.56	0.93	496.5
				Double, Clear	N	1.5	7.5	20.0	19.20	0.96	369.2
				Double, Clear	N	1.5	6.5	36.0	19.20	0.95	654.9
				Double, Clear	N	9.5	8.0	36.0	19.20	0.68	471.0
				Double, Clear	N	13.5	3.0	25.0	19.20	0.59	284.7
				Double, Clear	N	13.5	8.0	14.0	19.20	0.64	171.4
				Double, Clear	N	1.5	6.5	36.0	19.20	0.95	654.9
				Double, Clear	E	1.5	5.5	40.0	42.06	0.90	1507.9
				Double, Clear	E	1.5	1.5	4.0	42.06	0.52	87.1
				Double, Clear	E	1.5	5.5	20.0	42.06	0.90	754.0
				As-Built Total:				530.0		11727.0	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X	SPM	=	Points	
Adjacent	180.0	0.70	126.0	Frame, Wood, Adjacent	13.0		180.0	0.60		108.0	
Exterior	1894.0	1.70	3219.8	Frame, Wood, Exterior	13.0		1894.0	1.50		2841.0	
Base Total:				2074.0		3345.8		As-Built Total:		2074.0 2949.0	
DOOR TYPES Area X BSPM = Points				Type			Area X	SPM	=	Points	
Adjacent	20.0	2.40	48.0	Exterior Insulated			70.0	4.10		287.0	
Exterior	90.0	6.10	549.0	Exterior Insulated			20.0	4.10		82.0	
				Adjacent Insulated			20.0	1.60		32.0	
Base Total:				110.0		597.0		As-Built Total:		110.0 401.0	



# SUMMER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT						
CEILING TYPES    Area X   BSPM =   Points				Type	R-Value	Area X   SPM X   SCM =	Points			
Under Attic	3699.0	1.73	6399.3	Under Attic	30.0	4083.0   1.73 X 1.00	7063.6			
Base Total:		3699.0	6399.3	As-Built Total:		4083.0	7063.6			
FLOOR TYPES    Area X   BSPM =   Points				Type	R-Value	Area X   SPM   =	Points			
Slab	321.0(p)	-37.0	-11877.0	Slab-On-Grade Edge Insulation	0.0	321.0(p)   -41.20	-13225.2			
Raised	0.0	0.00	0.0							
Base Total:		-11877.0	As-Built Total:		321.0	-13225.2				
INFILTRATION    Area X   BSPM =   Points				Area X   SPM   =   Points						
		3699.0	10.21			3699.0	10.21	37766.8		
Summer Base Points:		49574.9		Summer As-Built Points:		46682.2				
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)						
49574.9	0.4266	21148.6		46682.2	0.500	(1.090 x 1.147 x 1.00)	0.297	1.000	8353.0	
				46682.2	0.500	(1.090 x 1.147 x 0.91)	0.297	1.000	8353.0	
			46682.2	1.00	1.206	0.297	1.000	16705.9		

# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

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	3699.0	12.74	8482.5	Double, Clear	W	99.0	7.5	20.0	20.73	1.24	513.1
				Double, Clear	S	13.8	3.5	15.0	13.30	3.66	730.0
				Double, Clear	S	13.8	7.6	20.0	13.30	3.47	921.9
				Double, Clear	S	13.8	7.6	20.0	13.30	3.47	921.9
				Double, Clear	S	13.8	6.5	72.0	13.30	3.53	3379.2
				Double, Clear	E	99.0	7.5	10.0	18.79	1.51	283.2
				Double, Clear	S	1.5	4.5	16.0	13.30	1.26	267.8
				Double, Clear	W	1.5	6.5	36.0	20.73	1.02	760.9
				Double, Clear	SW	1.5	6.5	18.0	16.74	1.05	316.5
				Double, Clear	W	1.5	6.5	18.0	20.73	1.02	380.5
				Double, Clear	NW	1.5	6.5	18.0	24.30	1.00	438.4
				Double, Clear	N	1.5	6.5	18.0	24.58	1.00	443.3
				Double, Clear	NE	1.5	6.5	18.0	23.57	1.00	426.3
				Double, Clear	N	1.5	7.5	20.0	24.58	1.00	492.1
				Double, Clear	N	1.5	6.5	36.0	24.58	1.00	886.5
				Double, Clear	N	9.5	8.0	36.0	24.58	1.02	903.0
				Double, Clear	N	13.5	3.0	25.0	24.58	1.03	631.2
				Double, Clear	N	13.5	8.0	14.0	24.58	1.02	352.3
				Double, Clear	N	1.5	6.5	36.0	24.58	1.00	886.5
				Double, Clear	E	1.5	5.5	40.0	18.79	1.04	782.8
				Double, Clear	E	1.5	1.5	4.0	18.79	1.29	96.6
				Double, Clear	E	1.5	5.5	20.0	18.79	1.04	391.4
				As-Built Total:				530.0		15205.3	
WALL TYPES    Area X BWPM = Points				Type	R-Value		Area X WPM    =    Points				
Adjacent	180.0	3.60	648.0	Frame, Wood, Adjacent	13.0		180.0	3.30		594.0	
Exterior	1894.0	3.70	7007.8	Frame, Wood, Exterior	13.0		1894.0	3.40		6439.6	
Base Total:		2074.0	7655.8	As-Built Total:				2074.0		7033.6	
DOOR TYPES    Area X BWPM = Points				Type	Area X WPM    =    Points						
Adjacent	20.0	11.50	230.0	Exterior Insulated				70.0	8.40		588.0
Exterior	90.0	12.30	1107.0	Exterior Insulated				20.0	8.40		168.0
				Adjacent Insulated				20.0	8.00		160.0
Base Total:		110.0	1337.0	As-Built Total:				110.0		916.0	



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT			
CEILING TYPES Area X BWPM = Points				Type	R-Value	Area X WPM X WCM =	Points
Under Attic	3699.0	2.05	7582.9	Under Attic	30.0	4083.0 2.05 X 1.00	8370.1
Base Total:	3699.0		7582.9	As-Built Total:		4083.0	8370.1
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM =	Points
Slab	321.0(p)	8.9	2856.9	Slab-On-Grade Edge Insulation	0.0	321.0(p) 18.80	6034.8
Raised	0.0	0.00	0.0				
Base Total:			2856.9	As-Built Total:		321.0	6034.8
INFILTRATION Area X BWPM = Points				Area X WPM = Points			
	3699.0	-0.59	-2182.4			3699.0 -0.59	-2182.4
Winter Base Points:		25732.8		Winter As-Built Points:		35377.5	
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
25732.8	0.6274	16144.8		35377.5	0.500	(1.069 x 1.169 x 1.00)	0.474 1.000 10179.9
			35377.5	0.500	(1.069 x 1.169 x 0.93)	0.474 1.000 10179.9	
			35377.5	1.00	1.215	0.474 1.000 20359.7	

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT					
<b>WATER HEATING</b>				Tank	EF	Number of	X	Tank	X
Number of	X	Multiplier	=	Volume		Bedrooms		Ratio	Multiplier
Bedrooms			Total						Total
4		2746.00	10984.0	40.0	0.90	4		1.00	2684.98
									1.00
									10739.9
				As-Built Total:					10739.9

**CODE COMPLIANCE STATUS**

BASE				AS-BUILT				
Cooling	+	Heating	+	Cooling	+	Heating	+	Hot Water
Points		Points		Points		Points		Points
			=				=	Total
			Total				Total	Points
21149		16145		16706		20360		10740
		10984	48277					47806

**PASS**



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

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\* = 83.2**

The higher the score, the more efficient the home.

Mr. & Mrs. Mitchell, Lot: , Sub: Emerald Lakes, Plat: , Lake City, FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 37.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 11.50
4. Number of Bedrooms	4	___	b. Central Unit	Cap: 37.0 kBtu/hr
5. Is this a worst case?	Yes	___		SEER: 11.50
6. Conditioned floor area (ft <sup>2</sup> )	3699 ft <sup>2</sup>	___	c. N/A	___
7. Glass area & type	Single Pane	Double Pane	13. Heating systems	
a. Clear - single pane	0.0 ft <sup>2</sup>	530.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 37.0 kBtu/hr
b. Clear - double pane	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>		HSPF: 7.20
c. Tint/other SHGC - single pane	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>	b. Electric Heat Pump	Cap: 37.0 kBtu/hr
d. Tint/other SHGC - double pane				HSPF: 7.20
8. Floor types			c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 321.0(p) ft	___	14. Hot water systems	
b. N/A	___	___	a. Electric Resistance	Cap: 40.0 gallons
c. N/A	___	___		EF: 0.90
9. Wall types			b. N/A	___
a. Frame, Wood, Adjacent	R=13.0, 180.0 ft <sup>2</sup>	___	c. Conservation credits	___
b. Frame, Wood, Exterior	R=13.0, 1894.0 ft <sup>2</sup>	___	(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, 4083.0 ft <sup>2</sup>	___	PT-Programmable Thermostat,	___
b. N/A	___	___	MZ-C-Multizone cooling,	___
c. N/A	___	___	MZ-H-Multizone heating)	___
11. Ducts				
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 230.0 ft	___		
b. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft	___		

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: 8/8/04

Address of New Home: \_\_\_\_\_

City/FL Zip: \_\_\_\_\_



\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar<sup>TM</sup> designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](http://www.fsec.ucf.edu) for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

EnergyGauge® (Version: FLRCSB v3.30)



# Residential System Sizing Calculation

## Summary

Mr. & Mrs. Mitchell

Project Title:  
405042MitchellRes

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

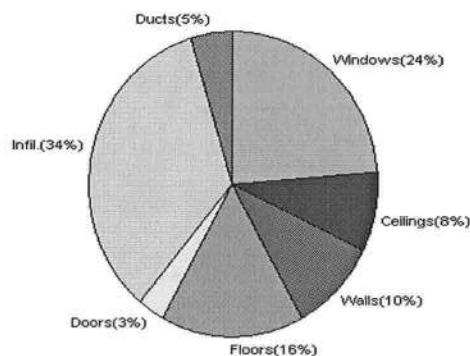
5/5/2004

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	18 F
<b>Total heating load calculation</b>	<b>62631 Btuh</b>	<b>Total cooling load calculation</b>	<b>62025 Btuh</b>
Submitted heating capacity	74000 Btuh	Submitted cooling capacity	74000 Btuh
Submitted as % of calculated	118.2 %	Submitted as % of calculated	119.3 %

## WINTER CALCULATIONS

Winter Heating Load (for 3699 sqft)

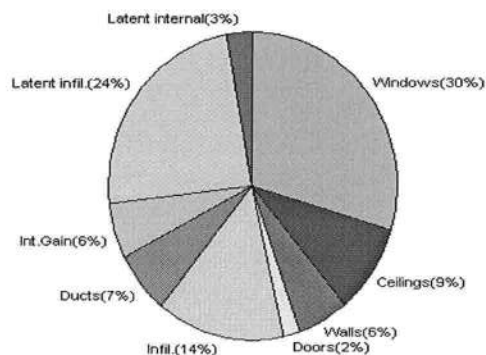
Load component		Load
Window total	530 sqft	14999 Btuh
Wall total	2074 sqft	6159 Btuh
Door total	110 sqft	1838 Btuh
Ceiling total	4083 sqft	5308 Btuh
Floor total	321 ft	10144 Btuh
Infiltration	494 cfm	21201 Btuh
<b>Subtotal</b>		<b>59648 Btuh</b>
Duct loss		2982 Btuh
<b>TOTAL HEAT LOSS</b>		<b>62631 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 3699 sqft)

Load component		Load
Window total	530 sqft	18523 Btuh
Wall total	2074 sqft	3483 Btuh
Door total	110 sqft	1115 Btuh
Ceiling total	4083 sqft	5798 Btuh
Floor total		0 Btuh
Infiltration	432 cfm	8562 Btuh
Internal gain		3600 Btuh
<b>Subtotal(sensible)</b>		<b>41081 Btuh</b>
Duct gain		4108 Btuh
<b>Total sensible gain</b>		<b>45189 Btuh</b>
Latent gain(infiltration)		14996 Btuh
Latent gain(internal)		1840 Btuh
<b>Total latent gain</b>		<b>16836 Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>62025 Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: *E. J. Boushey*

DATE: 5/5/04

# System Sizing Calculations - Winter

## Residential Load - Component Details

Mr. & Mrs. Mitchell

Project Title:  
405042MitchellRes

Lake City, FL

Class 3 Rating  
Registration No. 0  
Climate: North

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

5/5/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	E	20.0	28.3	566 Btuh
2	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
3	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
4	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
5	2, Clear, Metal, DEF	N	72.0	28.3	2038 Btuh
6	2, Clear, Metal, DEF	W	10.0	28.3	283 Btuh
7	2, Clear, Metal, DEF	N	16.0	28.3	453 Btuh
8	2, Clear, Metal, DEF	E	36.0	28.3	1019 Btuh
9	2, Clear, Metal, DEF	NE	18.0	28.3	509 Btuh
10	2, Clear, Metal, DEF	E	18.0	28.3	509 Btuh
11	2, Clear, Metal, DEF	SE	18.0	28.3	509 Btuh
12	2, Clear, Metal, DEF	S	18.0	28.3	509 Btuh
13	2, Clear, Metal, DEF	SW	18.0	28.3	509 Btuh
14	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
15	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
16	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
17	2, Clear, Metal, DEF	S	25.0	28.3	708 Btuh
18	2, Clear, Metal, DEF	S	14.0	28.3	396 Btuh
19	2, Clear, Metal, DEF	S	36.0	28.3	1019 Btuh
20	2, Clear, Metal, DEF	W	40.0	28.3	1132 Btuh
21	2, Clear, Metal, DEF	W	4.0	28.3	113 Btuh
22	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
Window Total			530		14999 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Adjacent	13.0	180	1.6	288 Btuh
2	Frame - Exterior	13.0	1894	3.1	5871 Btuh
Wall Total			2074		6159 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		70	18.3	1283 Btuh
2	Insulated - Exter		20	18.3	367 Btuh
3	Insulated - Adjac		20	9.4	188 Btuh
Door Total			110		1838 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	4083	1.3	5308 Btuh
Ceiling Total			4083		5308 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	321.0 ft(p)	31.6	10144 Btuh
Floor Total			321		10144 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	36990(sqft)	494	21201 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				494	21201 Btuh

# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Mr. & Mrs. Mitchell

Project Title:  
405042MitchellRes

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

5/5/2004

<b>Totals for Heating</b>	<b>Subtotal</b>	<b>59648 Btuh</b>
	<b>Duct Loss(using duct multiplier of 0.05)</b>	<b>2982 Btuh</b>
	<b>Total Btuh Loss</b>	<b>62631 Btuh</b>

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

Mr. & Mrs. Mitchell

Project Title:  
405042MitchellRes

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

5/5/2004

Window	Type		Overhang		Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExShOrnt		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, N, N	E	99	7.5	20.0	20.0	0.0	22	72	440	Btuh
2	2, Clear, DEF, N, N	N	13.7	3.5	15.0	0.0	15.0	22	22	330	Btuh
3	2, Clear, DEF, N, N	N	13.7	7.58	20.0	0.0	20.0	22	22	440	Btuh
4	2, Clear, DEF, N, N	N	13.7	7.58	20.0	0.0	20.0	22	22	440	Btuh
5	2, Clear, DEF, N, N	N	13.7	6.5	72.0	0.0	72.0	22	22	1584	Btuh
6	2, Clear, DEF, N, N	W	99	7.5	10.0	10.0	0.0	22	72	220	Btuh
7	2, Clear, DEF, N, N	N	1.5	4.5	16.0	0.0	16.0	22	22	352	Btuh
8	2, Clear, DEF, N, N	E	1.5	6.5	36.0	4.5	31.5	22	72	2368	Btuh
9	2, Clear, DEF, N, N	NE	1.5	6.5	18.0	0.0	18.0	22	50	900	Btuh
10	2, Clear, DEF, N, N	E	1.5	6.5	18.0	0.0	18.0	22	72	1296	Btuh
11	2, Clear, DEF, N, N	SE	1.5	6.5	18.0	1.1	16.9	22	62	1071	Btuh
12	2, Clear, DEF, N, N	S	1.5	6.5	18.0	18.0	0.0	22	37	396	Btuh
13	2, Clear, DEF, N, N	SW	1.5	6.5	18.0	1.1	16.9	22	62	1071	Btuh
14	2, Clear, DEF, N, N	S	1.5	7.5	20.0	20.0	0.0	22	37	440	Btuh
15	2, Clear, DEF, N, N	S	1.5	6.5	36.0	36.0	0.0	22	37	792	Btuh
16	2, Clear, DEF, N, N	S	9.5	8	36.0	36.0	0.0	22	37	792	Btuh
17	2, Clear, DEF, N, N	S	13.5	3	25.0	25.0	0.0	22	37	550	Btuh
18	2, Clear, DEF, N, N	S	13.5	8	14.0	14.0	0.0	22	37	308	Btuh
19	2, Clear, DEF, N, N	S	1.5	6.5	36.0	36.0	0.0	22	37	792	Btuh
20	2, Clear, DEF, N, N	W	1.5	5.5	40.0	9.1	30.9	22	72	2427	Btuh
21	2, Clear, DEF, N, N	W	1.5	1.5	4.0	3.3	0.7	22	72	122	Btuh
22	2, Clear, DEF, N, N	W	1.5	5.5	20.0	1.0	19.0	22	72	1391	Btuh
	Window Total				530					18523 Btuh	
Walls	Type		R-Value		Area			HTM		Load	
1	Frame - Adjacent		13.0		180.0			1.0		187 Btuh	
2	Frame - Exterior		13.0		1894.0			1.7		3296 Btuh	
	Wall Total				2074.0					3483 Btuh	
Doors	Type				Area			HTM		Load	
1	Insulated - Exter				70.0			10.1		710 Btuh	
2	Insulated - Exter				20.0			10.1		203 Btuh	
3	Insulated - Adjac				20.0			10.1		203 Btuh	
	Door Total				110.0					1115 Btuh	
Ceilings	Type/Color		R-Value		Area			HTM		Load	
1	Under Attic/Dark		30.0		4083.0			1.4		5798 Btuh	
	Ceiling Total				4083.0					5798 Btuh	
Floors	Type		R-Value		Size			HTM		Load	
1	Slab-On-Grade Edge Insulation		0.0		321.0 ft(p)			0.0		0 Btuh	
	Floor Total				321.0					0 Btuh	

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Mr. & Mrs. Mitchell

Project Title:  
405042MitchellRes

Class 3 Rating  
Registration No. 0  
Climate: North

Lake City, FL

5/5/2004

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.70	36990	432.4	8562 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			432	8562 Btuh

Internal gain	Occupants	Btuh/occupant	Appliance	Load
	8	X 300 +	1200	3600 Btuh

<b>Totals for Cooling</b>	<b>Subtotal</b>	<b>41081 Btuh</b>
	<b>Duct gain(using duct multiplier of 0.10)</b>	<b>4108 Btuh</b>
	<b>Total sensible gain</b>	<b>45189 Btuh</b>
	<b>Latent infiltration gain (for 51 gr. humidity difference)</b>	<b>14996 Btuh</b>
	<b>Latent occupant gain (8 people @ 230 Btuh per person)</b>	<b>1840 Btuh</b>
	<b>Latent other gain</b>	<b>0 Btuh</b>
	<b>TOTAL GAIN</b>	<b>62025 Btuh</b>

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/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

**Columbia County Building Department  
Culvert Waiver**

**Culvert Waiver No.  
000000407**

*Weggie*

DATE: 09/17/2004 BUILDING PERMIT NO. 22319

APPLICANT BRYAN ZECHER PHONE 752-8653

ADDRESS P.O. BOX 815 LAKE CITY FL 32056

OWNER JULIUS & PEARLNITA MITCHELL PHONE 752-8653

ADDRESS 2483 SW OLD WIRE ROAD LAKE CITY FL 32024

CONTRACTOR BRYAN ZECHER PHONE 752-8653

LOCATION OF PROPERTY 47S, TL ON WALTER LITTLE ROAD, ACROSS 240 TURNS INTO OLD

WIRE ROAD, 2.2 MILES ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PARADISE SOUTH 8

PARCEL ID # 24-5S-16-03707-108

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE: *[Signature]*

A SEPARATE CHECK IS REQUIRED  
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

**PUBLIC WORKS DEPARTMENT USE ONLY**

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE  
CULVERT WAIVER IS:

                     APPROVED                     ✓                     NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: P.R. is Required if Contractor  
Uses Existing Entrance Because of P.R. under  
Infinity

SIGNED: *[Signature]* DATE: 09-21-04

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

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









# COLUMBIA COUNTY OFFICE 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 24-5S-16-03707-108

Building permit No. 000022319

Use Classification SFD, UTILITY

Fire: 17.01

Permit Holder BRYAN ZECHER

Waste: 36.75

Owner of Building JULIUS & PEARL NITA MITCHELL

Total: 53.76

Location: 2483 SW OLD WIRE ROAD (PARADISE SOUTH, LOT 8)

Date: 06/01/2005



*[Signature]*

Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)

## Notice of Treatment

**Applicator** Florida Pest Control & Chemical Co. 11/34

**Address** BAYA AVE

**City** Lake City **Phone** 752 1703

**Site Location** **Subdivision** \_\_\_\_\_

**Lot#** \_\_\_\_\_ **Block#** \_\_\_\_\_ **Permit#** 22319

**Address** 2483 SW OLD WIRE RD

### AREAS TREATED

**Print Technician's  
Name**

**Area Treated**

**Date**

**Time**

**Gal.**

**Main Body**

10/7/04

1330

776

FES4 GUNNY

**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** DURSBAN TC .05 %

**Remarks** Exterior not finished