

DATE 09/30/2005

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000023675

APPLICANT NORA TERRY

PHONE 754-5810

ADDRESS 291 SW SISTERS WELCOME RD

LAKE CITY FL 32025

OWNER DARBY ROGERS COMPANY

PHONE 752-6575

ADDRESS 824 NW EMERALD LAKE DRIVE

LAKE CITY FL 32055

CONTRACTOR BLAKE CONSTRUCTION

PHONE 754-5810

LOCATION OF PROPERTY 90W, TR ON BROWN RD, TL ON EMERALD LAKE DR, 3RD LOT ON LEFT  
PAST ZACK DRIVE

TYPE DEVELOPMENT SFD, UTILITY

ESTIMATED COST OF CONSTRUCTION 109,200

HEATED FLOOR AREA 2184.00

TOTAL AREA 2708.00

HEIGHT .00 STORIES 1

FOUNDATION CONC

WALLS FRAMED

ROOF PITCH 7/12

FLOOR SLAB

LAND USE & ZONING RSF-2

MAX. HEIGHT 26

Minimum Set Back Requirments: STREET-FRONT 25.00

REAR 15.00 SIDE 10.00

NO. EX.D.U. 0

FLOOD ZONE

XPP

DEVELOPMENT PERMIT NO.

PARCEL ID 28-3S-16-02372-612

SUBDIVISION ARBOR GREENE AT EMERALD LAKES

LOT 12

BLOCK

PHASE 2

UNIT

TOTAL ACRES

000000830

RR0067618

Culvert Permit No.

Culvert Waiver

Contractor's License Number

Applicant/Owner/Contractor

CULVERT

04-0227-N

BK

Y

Driveway Connection

Septic Tank Number

LU & Zoning checked by

Approved for Issuance

New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, FLOOR ELEVATION LETTER REQUIRED, 1ST FLOOR

TO BE AT 158.75, ELEVATION LETTER REQUIRED BEFORE SLAB, NOC ON FILE

Check # or Cash 4278

## 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 \$ 550.00

CERTIFICATION FEE \$ 13.54

SURCHARGE FEE \$ 13.54

MISC. FEES \$ .00

ZONING CERT. FEE \$ 50.00

FIRE FEE \$ .00

WASTE FEE \$

FLOOD DEVELOPMENT FEE \$

FLOOD ZONE FEE

CULVERT FEE \$ 25.00

TOTAL FEE 652.08

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

10 AM

CK#4278

Revised 9-20

For Office Use Only Application # 0509-17 Date Received 9/7/05 By G Permit # 830/23675  
 Application Approved by - Zoning Official RLK Date 29.09.05 Plans Examiner AK TH Date 9-22-05  
 Flood Zone Xp Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. L-Dev  
 Comments Floor Elevation letter Requires 1st Floor h/bc at 158.75 ft. Elevation letter required  
719-6708

Applicants Name BLAKE Construction Company Phone 886-754-5810  
 Address 291 SW Sisters Welcome Rd. Ste 102 LC, FL 32025  
 Owners Name DARBY-ROGERS Company Phone 752-6575  
 911 Address 824 NW Emerald Lake Dr. 32055  
 Contractors Name SAME Phone   
 Address

Fee Simple Owner Name & Address   
 Bonding Co. Name & Address   
 Architect/Engineer Name & Address MARK DISOWAY P.E., POB 868 LC, FL 32056  
 Mortgage Lenders Name & Address Peoples STATE BANK

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
 Property ID Number 28-35-16-02372-612 Estimated Cost of Construction 150,000.00  
 Subdivision Name ARADON GREENS AT EMERALD LAKES Phase II Lot 12 Block  Unit  Phase   
 Driving Directions Go West to Brown Road T-R, T-L at first entrance  
Go to stop sign T-L (Emerald Lakes Dr), Follow around to stop sign  
Go across Zack's 3rd property on left  
 Type of Construction RSF-2

Total Acreage .5160 Lot Size  Do you need a Culvert Permit or Culvert Waiver or Have an Existing Drive  
 Actual Distance of Structure from Property Lines - Front 90' Side 15' Side 20' Rear 86'  
 Total Building Height 26' 9" Number of Stories 1 1/2 Heated Floor Area 2184 Roof Pitch 7/12 & 9/12  
GA 194524 2708

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

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

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

Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA  
 COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me  
 this 6th day of Sept 20 05  
 Personally known ✓ or Produced Identification



Contractor Signature   
 Contractors License Number R120667618  
 Competency Card Number

Notary Signature



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name:	508053BlakeConstructionSpecHouse	Builder:	
Address:	Lot: 12, Sub: Arbor Green S/D, Plat:	Permitting Office:	
City, State:	, FL	Permit Number:	23625
Owner:	Blake Construction	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2184 ft²	13. Heating systems	
7. Glass area & type	Single Pane Double Pane	a. Electric Heat Pump	Cap: 49.0 kBtu/hr
a. Clear glass, default U-factor	0.0 ft² 313.1 ft²		HSPF: 7.60
b. Default tint, default U-factor	0.0 ft² 0.0 ft²	b. N/A	
c. Labeled U-factor or SHGC	0.0 ft² 0.0 ft²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 190.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. Raised Wood, Adjacent	R=19.0, 354.0ft²		EF: 0.89
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=13.0, 2512.0 ft²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=13.0, 302.0 ft²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 3015.0 ft²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft		
b. N/A			

Glass/Floor Area: 0.14

Total as-built points: 33855

Total base points: 34031

**PASS**

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

**PREPARED BY:** Ben Sparks**DATE:** 8-16-05

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: Lot: 12, Sub: Arbor Green S/D, Plat: , , 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	2184.0	20.04	7878.1	Double, Clear	E	1.5	6.0	20.0	42.06	0.91	767.9	
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9	
				Double, Clear	E	1.5	7.0	91.0	42.06	0.94	3591.7	
				Double, Clear	E	0.0	0.0	20.0	42.06	1.00	841.3	
				Double, Clear	N	1.5	8.0	10.0	19.20	0.97	185.7	
				Double, Clear	E	0.0	0.0	6.0	42.06	1.00	252.4	
				Double, Clear	S	14.0	8.0	10.0	35.87	0.46	164.1	
				Double, Clear	E	12.0	8.0	20.0	42.06	0.43	364.2	
				Double, Clear	E	12.0	1.0	6.0	42.06	0.36	90.1	
				Double, Clear	W	5.7	6.0	30.0	38.52	0.54	628.3	
				Double, Clear	W	6.7	8.0	10.0	38.52	0.57	220.0	
				Double, Clear	W	6.7	8.0	16.0	38.52	0.57	352.1	
				Double, Clear	W	6.7	2.0	5.0	38.52	0.37	72.2	
				Double, Clear	W	1.5	7.0	18.0	38.52	0.94	651.1	
				Double, Clear	W	1.5	7.0	12.0	38.52	0.94	434.1	
				Double, Clear	W	0.0	0.0	4.1	38.52	1.00	159.2	
				Double, Clear	N	1.5	6.0	20.0	19.20	0.94	360.4	
				As-Built Total:							313.1	9710.6
				WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points	
				Adjacent	302.0	0.70	211.4	Frame, Wood, Exterior	13.0		2512.0 1.50 3768.0	
Exterior	2512.0	1.70	4270.4	Frame, Wood, Adjacent	13.0		302.0 0.60 181.2					
Base Total: 2814.0 4481.8				As-Built Total:		2814.0	3949.2					
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points							
Adjacent	20.0	2.40	48.0	Exterior Insulated	60.0 4.10 246.0							
Exterior	60.0	6.10	366.0	Adjacent Insulated	20.0 1.60 32.0							
Base Total: 80.0 414.0				As-Built Total:		80.0 278.0						
CEILING TYPES Area X BSPM = Points				Type	R-Value	Area X SPM X SCM = Points						
Under Attic	1830.0	1.73	3165.9	Under Attic	30.0	3015.0 1.73 X 1.00 5216.0						
Base Total: 1830.0 3165.9				As-Built Total:		3015.0 5216.0						



SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 12, Sub: Arbor Green S/D, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES    Area X BSPM = Points				Type	R-Value	Area X SPM = Points		
Slab	190.0(p)	-37.0	-7030.0	Slab-On-Grade Edge Insulation	0.0	190.0(p)	-41.20	-7828.0
Raised	354.0	-3.99	-1412.5	Raised Wood, Adjacent	19.0	354.0	0.40	141.6
Base Total:			-8442.5	As-Built Total:		544.0	-7686.4	
INFILTRATION    Area X BSPM = Points				Area X SPM = Points				
			2184.0    10.21    22298.6				2184.0    10.21    22298.6	
Summer Base Points:			29796.0	Summer As-Built Points:			33766.0	
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)				
29796.0	0.4266	12711.0		33766.0	1.000	(1.090 x 1.147 x 0.91)	0.310	1.000    11919.4
					1.00	1.138	0.310	1.000    11919.4

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 12, Sub: Arbor Green S/D, Plat: , , 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	2184.0	12.74	5008.3	Double, Clear	E	1.5	6.0	20.0	18.79	1.04	389.2				
				Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9				
				Double, Clear	E	1.5	7.0	91.0	18.79	1.03	1755.6				
				Double, Clear	E	0.0	0.0	20.0	18.79	1.00	375.9				
				Double, Clear	N	1.5	8.0	10.0	24.58	1.00	246.0				
				Double, Clear	E	0.0	0.0	6.0	18.79	1.00	112.8				
				Double, Clear	S	14.0	8.0	10.0	13.30	3.45	459.2				
				Double, Clear	E	12.0	8.0	20.0	18.79	1.39	522.4				
				Double, Clear	E	12.0	1.0	6.0	18.79	1.51	169.9				
				Double, Clear	W	5.7	6.0	30.0	20.73	1.16	721.8				
				Double, Clear	W	6.7	8.0	10.0	20.73	1.15	238.0				
				Double, Clear	W	6.7	8.0	16.0	20.73	1.15	380.8				
				Double, Clear	W	6.7	2.0	5.0	20.73	1.24	128.3				
				Double, Clear	W	1.5	7.0	18.0	20.73	1.02	379.2				
				Double, Clear	W	1.5	7.0	12.0	20.73	1.02	252.8				
				Double, Clear	W	0.0	0.0	4.1	20.73	1.00	85.6				
				Double, Clear	N	1.5	6.0	20.0	24.58	1.00	492.7				
				As-Built Total:							313.1	7002.1			
				WALL TYPES Area X BWPM = Points				Type	R-Value Area X WPM = Points						
				Adjacent	302.0	3.60	1087.2	Frame, Wood, Exterior		13.0	2512.0	3.40	8540.8		
Exterior	2512.0	3.70	9294.4	Frame, Wood, Adjacent		13.0	302.0	3.30	996.6						
Base Total: 2814.0 10381.6				As-Built Total: 2814.0 9537.4											
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points										
Adjacent	20.0	11.50	230.0	Exterior Insulated			60.0	8.40	504.0						
Exterior	60.0	12.30	738.0	Adjacent Insulated			20.0	8.00	160.0						
Base Total: 80.0 968.0				As-Built Total: 80.0 664.0											
CEILING TYPESArea X BWPM = Points				Type	R-Value Area X WPM X WCM = Points										
Under Attic	1830.0	2.05	3751.5	Under Attic		30.0	3015.0	2.05 X 1.00	6180.8						
Base Total: 1830.0 3751.5				As-Built Total: 3015.0 6180.8											

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 12, Sub: Arbor Green S/D, Plat: , , FL,

PERMIT #:

BASE				AS-BUILT				
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X	WPM	= Points
Slab	190.0(p)	8.9	1691.0	Slab-On-Grade Edge Insulation	0.0	190.0(p)	18.80	3572.0
Raised	354.0	0.96	339.8	Raised Wood, Adjacent	19.0	354.0	2.20	778.8
Base Total:			2030.8	As-Built Total:		544.0	4350.8	
INFILTRATION Area X BWPM = Points				Area X WPM = Points				
			2184.0			2184.0	-0.59	-1288.6
Winter Base Points:			20851.7	Winter As-Built Points: 26446.5				
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
20851.7	0.6274	13082.4		26446.5	1.000	(1.069 x 1.169 x 0.93)	0.449	1.000 13790.6
				26446.5	1.00	1.162	0.449	1.000 13790.6



WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 12, Sub: Arbor Green S/D, Plat: , , FL,

PERMIT #:

BASE					AS-BUILT					
WATER HEATING										
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Credit = Total Multiplier
3		2746.00		8238.0	40.0	0.89	3		1.00	2715.15
					As-Built Total:					8145.4

CODE COMPLIANCE STATUS											
BASE						AS-BUILT					
Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	= Total Points
12711		13082		8238	34031	11919		13791		8145	33855

PASS





Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 12, Sub: Arbor Green S/D, Plat: , , 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\* = 82.5

The higher the score, the more efficient the home.

Blake Construction, Lot: 12, Sub: Arbor Green S/D, Plat: , FL,

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 49.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	2184 ft²		
7. Glass area & type	Single Pane Double Pane	13. Heating systems	
a. Clear glass, default U-factor	0.0 ft² 313.1 ft²	a. Electric Heat Pump	Cap: 49.0 kBtu/hr
b. Default tint, default U-factor	0.0 ft² 0.0 ft²		HSPF: 7.60
c. Labeled U-factor or SHGC	0.0 ft² 0.0 ft²	b. N/A	
8. Floor types		c. N/A	
a. Slab-On-Grade Edge Insulation	R=0.0, 190.0(p) ft		
b. Raised Wood, Adjacent	R=19.0, 354.0ft²	14. Hot water systems	
c. N/A		a. Electric Resistance	Cap: 40.0 gallons
9. Wall types			EF: 0.89
a. Frame, Wood, Exterior	R=13.0, 2512.0 ft²	b. N/A	
b. Frame, Wood, Adjacent	R=13.0, 302.0 ft²		
c. N/A		c. Conservation credits	
d. N/A		(HR-Heat recovery, Solar	
e. N/A		DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 3015.0 ft²	(CF-Ceiling fan, CV-Cross ventilation,	
b. N/A		HF-Whole house fan,	
c. N/A		PT-Programmable Thermostat,	
11. Ducts		MZ-C-Multizone cooling,	
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 150.0 ft	MZ-H-Multizone heating)	
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 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 Energy Gauge Program.*

Energy Gauge Program Version: FLR2PB v3.4)



# Residential System Sizing Calculation

## Summary

Blake Construction  
, FL

Project Title:  
508053BlakeConstructionSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

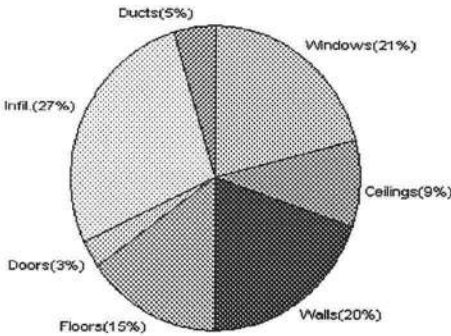
9/16/2005

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>Total cooling load calculation</b>	<b>37704 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	116.9 49000	Sensible (SHR = 0.5)	86.4 24500
Heat Pump + Auxiliary(0.0kW)	116.9 49000	Latent	262.1 24500
		Total (Electric Heat Pump)	130.0 49000

## WINTER CALCULATIONS

Winter Heating Load (for 2184 sqft)

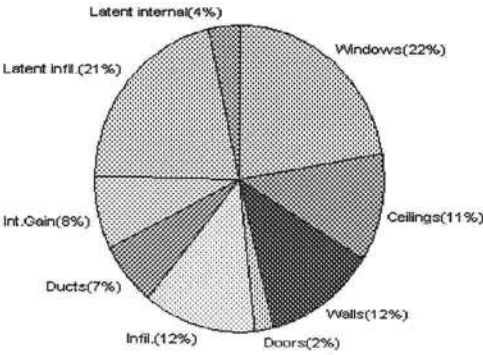
Load component		Load	
Window total	313 sqft	8862	Btuh
Wall total	2814 sqft	8270	Btuh
Door total	80 sqft	1288	Btuh
Ceiling total	3015 sqft	3920	Btuh
Floor total	See detail report	6323	Btuh
Infiltration	263 cfm	11266	Btuh
<b>Subtotal</b>		<b>39928</b>	<b>Btuh</b>
Duct loss		1996	Btuh
<b>TOTAL HEAT LOSS</b>		<b>41924</b>	<b>Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 2184 sqft)

Load component		Load	
Window total	313 sqft	8451	Btuh
Wall total	2814 sqft	4685	Btuh
Door total	80 sqft	811	Btuh
Ceiling total	3015 sqft	4281	Btuh
Floor total		0	Btuh
Infiltration	230 cfm	4550	Btuh
Internal gain		3000	Btuh
<b>Subtotal(sensible)</b>		<b>25778</b>	<b>Btuh</b>
Duct gain		2578	Btuh
<b>Total sensible gain</b>		<b>28356</b>	<b>Btuh</b>
Latent gain(infiltration)		7969	Btuh
Latent gain(internal)		1380	Btuh
<b>Total latent gain</b>		<b>9349</b>	<b>Btuh</b>
<b>TOTAL HEAT GAIN</b>		<b>37704</b>	<b>Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.  
PREPARED BY: *Ben Spivey*  
DATE: *9-16-05*

# System Sizing Calculations - Winter

## Residential Load - Component Details

Blake Construction  
, FL

Project Title:  
508053BlakeConstructionSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North

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

9/16/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
2	2, Clear, Metal, DEF	N	15.0	28.3	424 Btuh
3	2, Clear, Metal, DEF	N	91.0	28.3	2575 Btuh
4	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
5	2, Clear, Metal, DEF	W	10.0	28.3	283 Btuh
6	2, Clear, Metal, DEF	N	6.0	28.3	170 Btuh
7	2, Clear, Metal, DEF	E	10.0	28.3	283 Btuh
8	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
9	2, Clear, Metal, DEF	N	6.0	28.3	170 Btuh
10	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
11	2, Clear, Metal, DEF	S	10.0	28.3	283 Btuh
12	2, Clear, Metal, DEF	S	16.0	28.3	453 Btuh
13	2, Clear, Metal, DEF	S	5.0	28.3	142 Btuh
14	2, Clear, Metal, DEF	S	18.0	28.3	509 Btuh
15	2, Clear, Metal, DEF	S	12.0	28.3	340 Btuh
16	2, Clear, Metal, DEF	S	4.1	28.3	117 Btuh
17	2, Clear, Metal, DEF	W	20.0	28.3	566 Btuh
Window Total			313		8862 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	2512	3.1	7787 Btuh
2	Frame - Adjacent	13.0	302	1.6	483 Btuh
Wall Total			2814		8270 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		60	18.3	1100 Btuh
2	Insulated - Adjac		20	9.4	188 Btuh
Door Total			80		1288Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	3015	1.3	3920 Btuh
Ceiling Total			3015		3920Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	190.0 ft(p)	31.6	6004 Btuh
2	Raised Wood/Enclosed	19	354.0 sqft	0.9	319 Btuh
Floor Total			544		6323 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	19656(sqft)	263	11266 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				263	11266 Btuh

Totals for Heating	Subtotal	39928 Btuh
	Duct Loss(using duct multiplier of 0.05) EnergyGauge® FLR2PB v3.4	1996 Btuh
	Total Btuh Loss	41924 Btuh



# Manual J Winter Calculations

## Residential Load - Component Details (continued)

Blake Construction

Project Title:

Class 3 Rating

, FL

508053BlakeConstructionSpecHouse

Registration No. 0

Climate: North

9/16/2005

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

Blake Construction

Project Title:

Class 3 Rating

508053BlakeConstructionSpecHouse

Registration No. 0

, FL

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

9/16/2005

Window	Type	Overhang		Window Area(sqft)			HTM		Load	
	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, N, N	N	1.5	6	20.0	0.0	20.0	22	22	440 Btuh
2	2, Clear, DEF, N, N	N	1.5	6	15.0	0.0	15.0	22	22	330 Btuh
3	2, Clear, DEF, N, N	N	1.5	7	91.0	0.0	91.0	22	22	2002 Btuh
4	2, Clear, DEF, N, N	N	0	0	20.0	0.0	20.0	22	22	440 Btuh
5	2, Clear, DEF, N, N	W	1.5	8	10.0	0.0	10.0	22	72	720 Btuh
6	2, Clear, DEF, N, N	N	0	0	6.0	0.0	6.0	22	22	132 Btuh
7	2, Clear, DEF, N, N	E	14	8	10.0	10.0	0.0	22	72	220 Btuh
8	2, Clear, DEF, N, N	N	12	8	20.0	0.0	20.0	22	22	440 Btuh
9	2, Clear, DEF, N, N	N	12	1	6.0	0.0	6.0	22	22	132 Btuh
10	2, Clear, DEF, N, N	S	5.66	6	30.0	30.0	0.0	22	37	660 Btuh
11	2, Clear, DEF, N, N	S	6.66	8	10.0	10.0	0.0	22	37	220 Btuh
12	2, Clear, DEF, N, N	S	6.66	8	16.0	16.0	0.0	22	37	352 Btuh
13	2, Clear, DEF, N, N	S	6.66	2	5.0	5.0	0.0	22	37	110 Btuh
14	2, Clear, DEF, N, N	S	1.5	7	18.0	18.0	0.0	22	37	396 Btuh
15	2, Clear, DEF, N, N	S	1.5	7	12.0	12.0	0.0	22	37	264 Btuh
16	2, Clear, DEF, N, N	S	0	0	4.1	0.0	4.1	22	37	153 Btuh
17	2, Clear, DEF, N, N	W	1.5	6	20.0	0.0	20.0	22	72	1440 Btuh
Window Total					313					8451 Btuh
Walls	Type	R-Value		Area			HTM		Load	
1	Frame - Exterior	13.0		2512.0			1.7		4371 Btuh	
2	Frame - Adjacent	13.0		302.0			1.0		314 Btuh	
Wall Total					2814.0					4685 Btuh
Doors	Type			Area			HTM		Load	
1	Insulated - Exter			60.0			10.1		608 Btuh	
2	Insulated - Adjac			20.0			10.1		203 Btuh	
Door Total					80.0					811 Btuh
Ceilings	Type/Color	R-Value		Area			HTM		Load	
1	Under Attic/Dark	30.0		3015.0			1.4		4281 Btuh	
Ceiling Total					3015.0					4281 Btuh
Floors	Type	R-Value		Size			HTM		Load	
1	Slab-On-Grade Edge Insulation	0.0		190.0 ft(p)			0.0		0 Btuh	
2	Raised Wood	19.0		354.0 sqft			0.0		0 Btuh	
Floor Total					544.0					0 Btuh
Infiltration	Type	ACH		Volume			CFM=		Load	
	Natural	0.70		19656			229.8		4550 Btuh	
	Mechanical						0		0 Btuh	
Infiltration Total								230		4550 Btuh
Internal gain			Occupants		Btuh/occupant		Appliance		Load	
			6		X 300 +		1200		3000 Btuh	



# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Blake Construction  
 , FL

Project Title:  
508053BlakeConstructionSpecHouse

Class 3 Rating  
Registration No. 0  
Climate: North  
  
9/16/2005

Totals for Cooling	Subtotal	25778 Btuh
	Duct gain(using duct multiplier of 0.10)	2578 Btuh
	Total sensible gain	28356 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	7969 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	37704 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/Daperies(B) or Roller Shades(R))  
(ExSh - Exterior shading device: none(N) or numerical value)  
(Ornt - compass orientation)

# COLUMBIA COUNTY 9-1-1 ADDRESSING

263 NW Lake City Ave. \* P. O. Box 1787 \* Lake City, FL 32056-1787  
 PHONE: (386) 758-1125 \* FAX: (386) 758-1365 \* Email: ron\_croft@columbiacountyfla.com

## Addressing Maintenance

-05-0917-

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

DATE ISSUED: September 12, 2005

ENHANCED 9-1-1 ADDRESS:

824 NW EMERALD LAKE DR (LAKE CITY, FL 32055)

Addressed Location 911 Phone Number: NOT AVAIL.

OCCUPANT NAME: NOT AVAIL.

OCCUPANT CURRENT MAILING ADDRESS: \_\_\_\_\_

PROPERTY APPRAISER PARCEL NUMBER: 28-3S-16-02372-612

Other Contact Phone Number (If any): \_\_\_\_\_

Building Permit Number (If known): \_\_\_\_\_

Remarks: LOT 12 ARBOR GREEN AT EMERALD LAKES, PHASE 2, S/D

Address Issued By: \_\_\_\_\_

Columbia County 9-1-1 Addressing / GIS Department

**NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.**

COLUMBIA COUNTY  
 9-1-1 ADDRESSING  
 APPROVED





# BAILEY BISHOP & LANE, INC.

Engineers

Surveyors

Planners

## FLOOR ELEVATION CERTIFICATION

PROPERTY DESCRIPTION: ***Arbor Greene at Emerald Lakes Phase II  
Lot 12***

OWNER: ***Blake Lundy Construction***

PROJECT REQUIREMENTS: For protection against water damage, the minimum finish floor elevation of the proposed building shall be **158.75** feet. The ground around the proposed building shall be graded to direct all runoff around and away from the proposed building.

  
\_\_\_\_\_  
Gregory G. Bailey, P.E.

Date: February 27, 2004

@ CAM112M01	S	CamaUSA Appraisal System	Columbia County
9/06/2005 16:23		Legal Description Maintenance	18275 Land 001
Year T Property		Sel	AG 000
2005 R 28-3S-16-02372-612			Bldg 000
			Xfea 000
			18275 TOTAL B*

1	LOT 12 ARBOR GREENE ADDITION	S/D. WD-1015-2207	2
3			4
5			6
7			8
9			10
11			12
13			14
15			16
17			18
19			20
21			22
23			24
25			26
27			28

Mnt 8/17/2004 JEFF

F1=Task F3=Exit F4=Prompt F10=GoTo PgUp/PgDn F24=More



THIS INSTRUMENT WAS PREPARED BY:  
TERRY McDAVID 04-393  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328  
RETURN TO:  
TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Inst: 2005017179 Date: 07/20/2005 Time: 15:10  
MK DC, P. DeWitt Cason, Columbia County B: 1052 P: 1102

PERMIT NO. \_\_\_\_\_

TAX FOLIO NO.: R02372-611

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 12, ARBOR GREENE ADDITION, as Replat of Lots 11 and 12 of ARBOR GREENE AT EMERALD LAKES PHASE 2, a subdivision according to the plat thereof recorded in Plat Book 7, Page 494, public records of Columbia County, Florida.

2. General description of improvement: Residential Dwelling.

3. Owner information:

a. Name and address: THE DARBY ROGERS COMPANY, 3101 West U.S. Highway 90, Suite 101, Lake City, FL 32055.

b. Interest in property: Fee Simple

c. Name and address of fee simple title holder (if other than Owner):

4. Contractor: BLAKE CONSTRUCTION COMPANY OF NORTH FLORIDA, INC., 872 SW Jaguar Drive, Lake City, Florida 32025.

5. Surety

a. Name and address: None

6. Lender: PEOPLES STATE BANK, 350 SW Main Blvd., Lake City, Florida 32025.

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes: None

8. In addition to himself, Owner designates PEOPLES STATE BANK, 350 SW Main Blvd., Lake City, Florida 32025, to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.

9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified). July 19, 2006.

THE DARBY ROGERS COMPANY

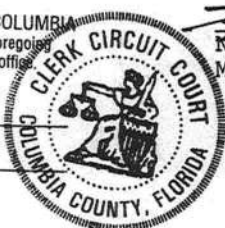
By: Blake N. Lunde, II, President

The foregoing instrument was acknowledged before me this 19th day of July, 2005, by BLAKE N. LUNDE, II, as President of THE DARBY ROGERS COMPANY. He is personally known to me and did not take an oath.

STATE OF FLORIDA, COUNTY OF COLUMBIA  
I HEREBY CERTIFY that the above and foregoing  
is a true copy of the original filed in this office.  
P. DeWITT CASON, CLERK OF COURTS

By: Manuel Kuen  
Deputy Clerk

Date: 7-20-05



Notary Public

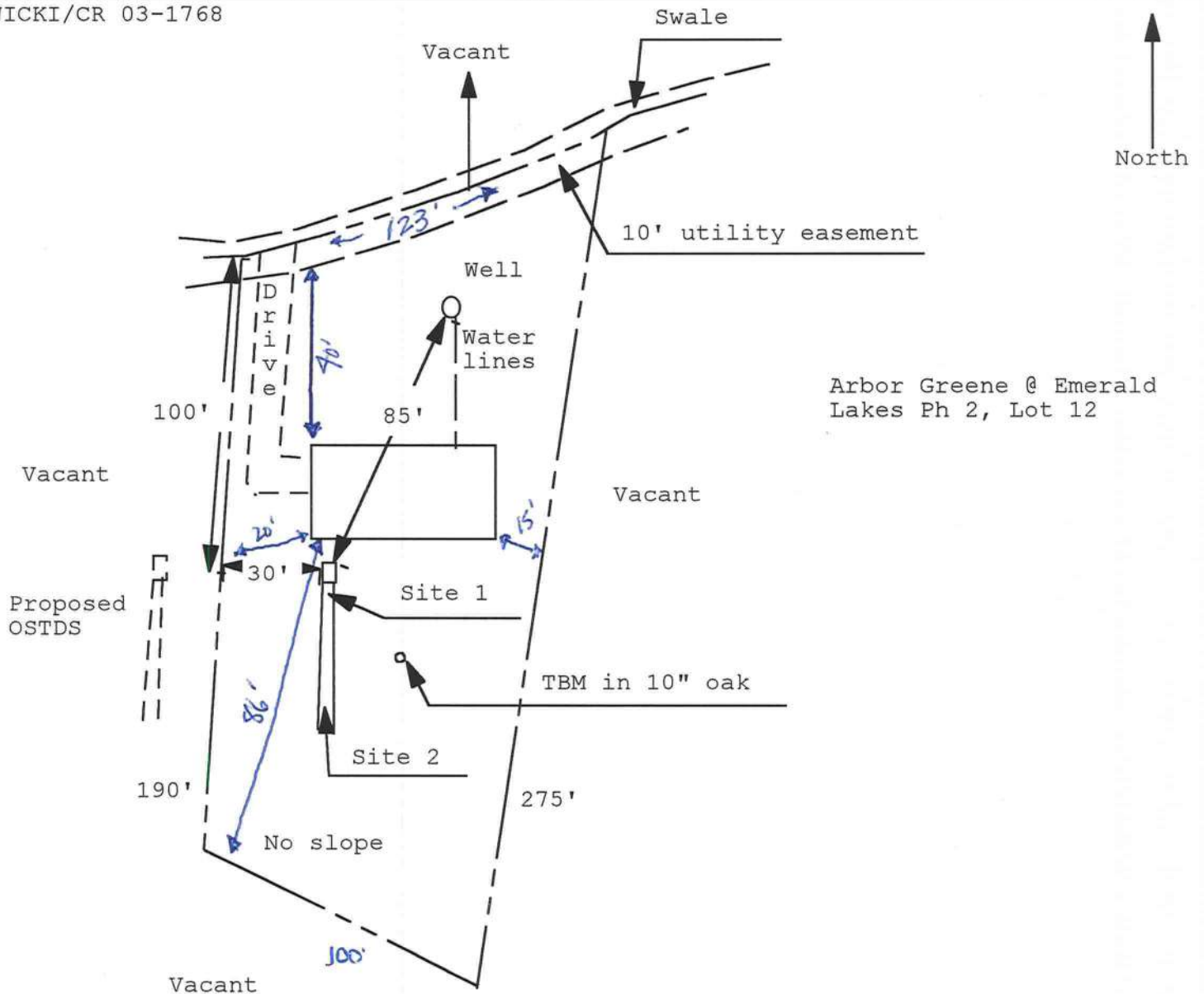
My commission expires:



Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 04-0227

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NOWICKI/CR 03-1768



1 inch = 50 feet

Site Plan Submitted By \_\_\_\_\_ Date \_\_\_\_\_  
Plan Approved \_\_\_\_\_ Not Approved \_\_\_\_\_ Date \_\_\_\_\_

By \_\_\_\_\_ CPHU

Notes: \_\_\_\_\_



# CLYATT WELL DRILLING, INC.

Established in 1971  
Post Office Box 180  
Worthington Springs, Florida 32697  
Phone (386)496-2488 FAX (386)496-4640

## WELL DESCRIPTION

DESCRIPTION DATE

### CUSTOMER NAME AND ADDRESS

Blake Construction Company  
of North Florida, Inc.  
872 Southwest Jaguar Drive  
Lake City, Florida 32025

### DESCRIPTION OF WORK

4" Well and Pump

### DESCRIPTION

4" Well

1 HP Submersible Pump

1-1/4" Galvanized Drop Pipe

14/3 Submersible Pump Wire

PC244 (220 Gallon Equivalent) Pressure Tank

4 X 1-1/4 Well Seal

Pressure Relief Valve

Controls & Fittings

Sales Tax

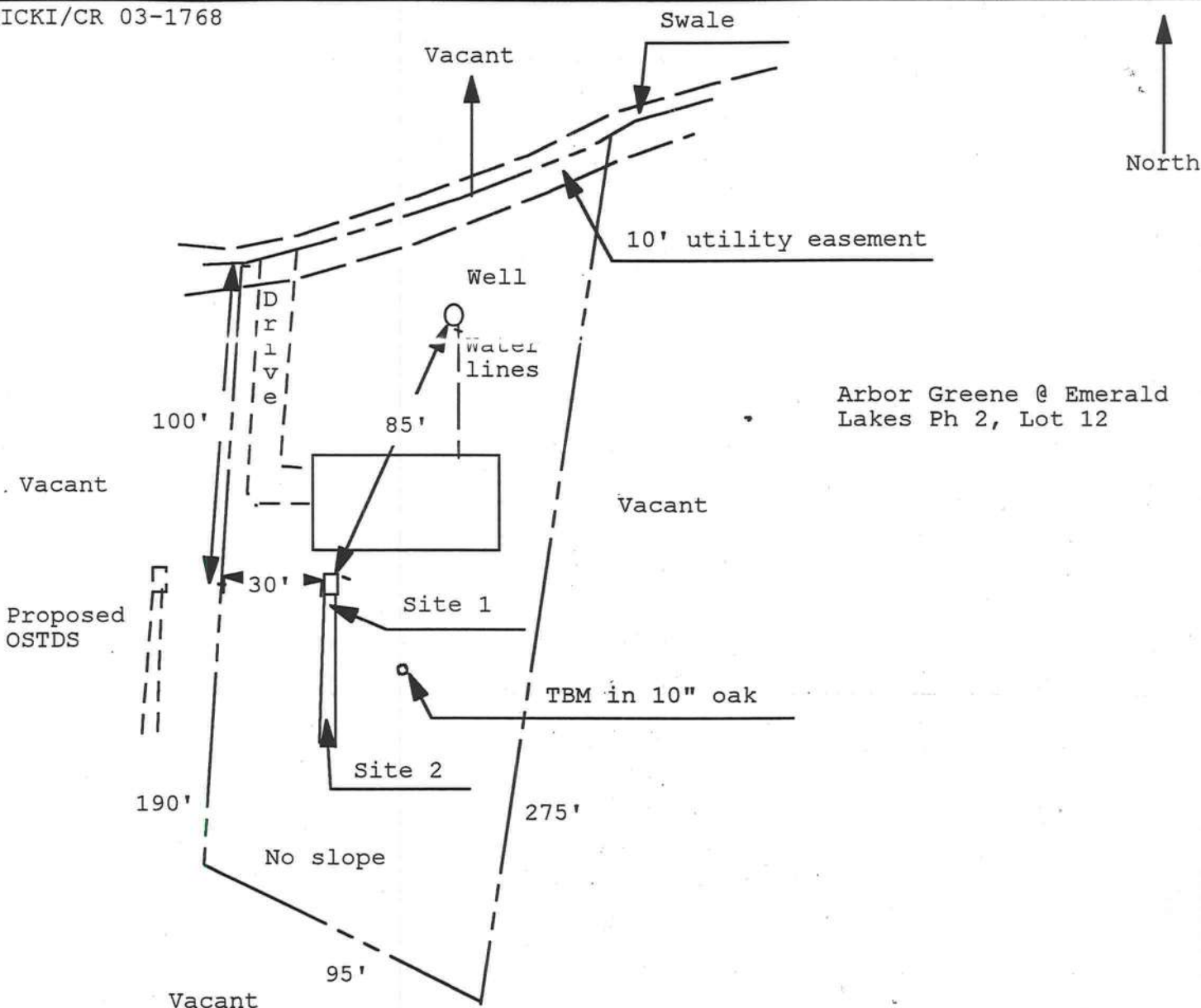
THANK YOU FOR YOUR BUSINESS! This document is provided to give a description of the well to be constructed on your behalf. All materials remain the property of Clyatt Well Drilling, Inc., until paid for in full. Clyatt Well Drilling, Inc., does not agree to find or develop water. nor does it represent, warrant or guarantee the quality or kind of water which may be encountered. If it is necessary to install water filters, the owner agrees it is his/her responsibility to pay the cost. Right to repossess is granted if payment for well is not made.

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

Permit Application Number: 04-0227N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

NOWICKI/CR 03-1768



Arbor Greene @ Emerald  
Lakes Ph 2, Lot 12

1 inch = 50 feet

Site Plan Submitted By Paul L. Leph Date 2/16/04  
Plan Approved ☒ Not Approved ☐ Date 2/16/04  
By Paul L. Leph Mr. Smith CPHU  
2-25-04

Notes: \_\_\_\_\_



**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000000830**

DATE 09/30/2005 PARCEL ID # 28-3S-16-02372-612  
APPLICANT NORA TERRY PHONE 754-5810  
ADDRESS 291 SW SISTERS WELCOME RD LAKE CITY FL 32025  
OWNER DARBY ROGERS COMPANY PHONE 752-6575  
ADDRESS 824 NW EMERALD LAKE DRIVE LAKE CITY FL 32055  
CONTRACTOR BLAKE LUNDE PHONE 754-5810  
LOCATION OF PROPERTY 90W, TR ON BROWN ROAD, TL ON EMERALD LAKES DRIVE, 3RD LOT ON LEFT  
PASS ZACH DRIVE

SUBDIVISION/LOT/BLOCK/PHASE/UNIT ARB GREEN/EM LAKES 12 2

SIGNATURE

*Nora Terry*

**INSTALLATION REQUIREMENTS**



Culvert size will be 18 inches in diameter with a total length 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 INSTALLATION 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**





## Cal-Tech Testing, Inc.

- Engineering
- Geotechnical
- Environmental

LABORATORIES

P.O. Box 1625 • Lake City, FL 32056-1625  
6919 Distribution Avenue S., Unit #5 • Jacksonville, FL 32257

Tel. (386) 755-3633 • Fax (386) 752-5456  
Tel. (904) 262-4046 • Fax (904) 262-4047

#23675

March 10, 2006

Blake Construction Company  
291 S. W. Sisters Welcome Road, Suite 102  
Lake City, Florida 32025

Attention: Blake Lundy

Reference: Proposed Residence  
Lot 12, Arbor Green, Phase II  
824 N. W. Emerald Lakes Drive  
Columbia County, Florida  
Cal-Tech Project No. 06-149

Dear Mr. Lundy,

At your request Cal-Tech Testing, Inc. has performed an investigation of the site for the residence currently under construction at the referenced location. The purposes of our investigation were to evaluate the potential for flooding of the residence and to provide recommendations as appropriate.

We were provided a copy of the "floor elevation certification" prepared by Bailey, Bishop and Lane, Inc. stipulating the floor of the residence should be at a minimum elevation of 158.75 feet. We were also provided a copy of a letter prepared by Donald F. Lee and Associates certifying the actual floor elevation as 158.15 feet, or 0.60 feet below the minimum elevation stipulated.

The residence is positioned in a slight depression for which flooding of the ground surface could occur given sufficient rainfall. However, based upon the floor elevation of 158.15 feet, data provided by U.S.G.S. topographic maps and ground surface elevations determined on site, the maximum flood elevation that could occur at the site is approximately 155.25 feet. Thus the floor of the residence is approximately 2.9 feet above the maximum flood elevation.

Based upon this finding, it is our opinion raising the floor to the certification elevation will not be required. The existing floor elevation of 158.15 feet is sufficient to provide protection against flooding.

*"Excellence in Engineering & Geoscience"*



We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,  
Cal-Tech Testing, Inc.



Linda Creamer  
President / CEO



John C. Dorman, Jr., Ph.D., P.E.  
Geotechnical Engineer

3/13/06  
52612





**Donald F. Lee & Associates, Inc.**  
**Surveyors & Engineers**

140 NW Ridgewood Avenue  
Lake City, Florida 32055  
(386) 755-6166  
Fax (386) 755-6167  
donald@dlfa.com

Monday, March 13, 2006

TO: Columbia County Building & Zoning Department

FROM: Tim Delbene, PLS - Donald F. Lee & Associates, Inc.

RE: Lot 12 , Arbor Green at Emerald Lakes Phase 2 - Floor Elevation Check

CC: Blake Lunde - Blake Construction

The Finished Floor (slab) Elevation was obtained for this dwelling under construction on the above referenced lot. The elevation measured was 158.15 feet MSL. This measurement is based on project benchmarks set by the subdivision's design surveyors (Bailey, Bishop and Lane, Inc.).

SIGNED: 

Timothy A. Delbene, P.L.S.

DATE: 3/13 /2006





**Donald F. Lee & Associates, Inc.**  
**Surveyors & Engineers**

140 NW Ridgewood Avenue  
Lake City, Florida 32055  
(386) 755-6166  
Fax (386) 755-6167  
donald@dlfa.com

Monday, March 13, 2006

TO: Columbia County Building & Zoning Department

FROM: Tim Delbene, PLS - Donald F. Lee & Associates, Inc.

RE: Lot 12 , Arbor Green at Emerald Lakes Phase 2 - Floor Elevation Check

CC: Blake Lunde - Blake Construction

The Finished Floor (slab) Elevation was obtained for this dwelling under construction on the above referenced lot. The elevation measured was 158.15 feet MSL. This measurement is based on project benchmarks set by the subdivision's design surveyors (Bailey, Bishop and Lane, Inc.).

SIGNED: Timothy A. Delbene  
Timothy A. Delbene, P.L.S.

DATE: 3 / 13 /2006

# COLUMBIA COUNTY OFFICIAL CERTIFICATE

## OCCUPANCY

COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 28-3S-16-02372-612

Building permit No. 000023675

Use Classification SFD, UTILITY

Fire: 23.68

Permit Holder BLAKE CONSTRUCTION

Waste: 49.00

Owner of Building DARBY ROGERS COMPANY

Total: 72.68

Location: 824 NW EMERALD LAKE DR., LAKE CITY, FL 32055

Date: 06/22/2006

*Harry Dicks*

Building Inspector



POST IN A CONSPICUOUS PLACE  
(Business Places Only)



# Notice of Treatment

11820

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

Address: 3941 N 7th Ave

City: CC

Phone: \_\_\_\_\_

Site Location: Subdivision Emerald Lakes At McGreen

Lot # 12 Block# \_\_\_\_\_

Permit # 23675

Address 824 NW Emerald Lakes Dr

## Product used

☐ 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

2708

650

3

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 \_\_\_\_\_.

3-6-06

1530

FCS4

Date

Time

Print Technician's Name

Remarks: \_\_\_\_\_

Applicator - White

Permit File - Canary

Permit Holder - Pink

10/05

©