

DATE 07/14/2004

# Columbia County Building Permit

PERMIT

This Permit Expires One Year From the Date of Issue

000022079

APPLICANT BRYAN ZECHER PHONE 752-8653  
ADDRESS P.O. BOX 815 LAKE CITY FL 32056  
OWNER GERALD & CAROLEE HOWE PHONE \_\_\_\_\_  
ADDRESS 941 NW ZACK DRIVE LAKE CITY FL 32055  
CONTRACTOR BRYAN ZECHER PHONE \_\_\_\_\_

LOCATION OF PROPERTY 90W, TR ON BROWN RD, TL ON WINDING RD, TL ON EMERALD LAKES  
DRIVE, TL ON ZACK DRIVE, HOME ON RIGHT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 88300.00

HEATED FLOOR AREA 1766.00 TOTAL AREA 2764.00 HEIGHT .00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB

LAND USE & ZONING RSF-2 MAX. HEIGHT 21

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE X PP DEVELOPMENT PERMIT NO. \_\_\_\_\_

PARCEL ID 28-3S-16-02372-619 SUBDIVISION ARBOR GREENE AT EMERALD LAKES

LOT 19 BLOCK \_\_\_\_\_ PHASE 2 UNIT \_\_\_\_\_ TOTAL ACRES .50

000000356 N CBC054575

Culvert Permit No. \_\_\_\_\_ Culvert Waiver \_\_\_\_\_ Contractor's License Number \_\_\_\_\_ Applicant/Owner/Contractor \_\_\_\_\_

PERMIT 04-0676-N BK RJ Y

Driveway Connection \_\_\_\_\_ Septic Tank Number \_\_\_\_\_ LU & Zoning checked by \_\_\_\_\_ Approved for Issuance \_\_\_\_\_ New Resident \_\_\_\_\_

COMMENTS: FINISH FLOOR ELEVATION TO BE AT LEAST 1 FT ABOVE CENTERLINE  
OF ADJACENT ROADWAY PER PLAT

Check # or Cash 2136

## 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 \$ 445.00 CERTIFICATION FEE \$ 13.82 SURCHARGE FEE \$ 13.82

MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ \_\_\_\_\_ WASTE FEE \$ \_\_\_\_\_

FLOOD ZONE DEVELOPMENT FEE \$ \_\_\_\_\_ CULVERT FEE \$ 25.00 TOTAL FEE 547.64

INSPECTORS OFFICE [Signature] CLERKS OFFICE CX

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.



# Columbia County Building Permit Application

For Office Use Only 6-16-04 LH Application # 0406-48 Permit # 356/22079

Application Approved by - Zoning Official \_\_\_\_\_ Date \_\_\_\_\_ Plans Examiner \_\_\_\_\_ Date \_\_\_\_\_

Flood Zone X per plat Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Dens.

Comments Finish Floor Elevation to be at least 1 foot above combination of adjacent Roadway  
\*need- NOC, septic per plat

Applicants Name Bryan Zeher Phone 752-0653

Address PO Box 815 LC, FL 32056

Owners Name Howe, Gerald & Corlee Phone \_\_\_\_\_

911 Address 941 NW Zack Dr, Lake City, FL 32055

Contractors Name Bryan Zeher Const, Inc Phone 752-0653

Address PO Box 815, Lake City, FL 32056

Fee Simple Owner Name & Address \_\_\_\_\_

Bonding Co. Name & Address \_\_\_\_\_

Architect/Engineer Name & Address Teene Ruffo / Mark Disoway

Mortgage Lenders Name & Address CNB

Property ID Number 2B-3S-16-02372-619 Estimated Cost of Construction \$123,000

Subdivision Name Arbor Green @ Em Lakes Lot 19 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase 2

Driving Directions Brown Rd TL winding to Em Lks Drive, T/L Go to  
Lot 19 - Arbor Greene "new section" TL on Zack, on right

Type of Construction Frame Number of Existing Dwellings on Property 0

Total Acreage 1/2 Lot Size 1/2 acre Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 30 Side 30 Side 30 Rear 160

Total Building Height 21 Number of Stories 1 Heated Floor Area 1766 Roof Pitch 6/12

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

**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 \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

Personally known \_\_\_\_\_ or Produced Identification \_\_\_\_\_

Contractor Signature

Contractors License Number CBC 054575

Competency Card Number \_\_\_\_\_

NOTARY STAMP/SEAL

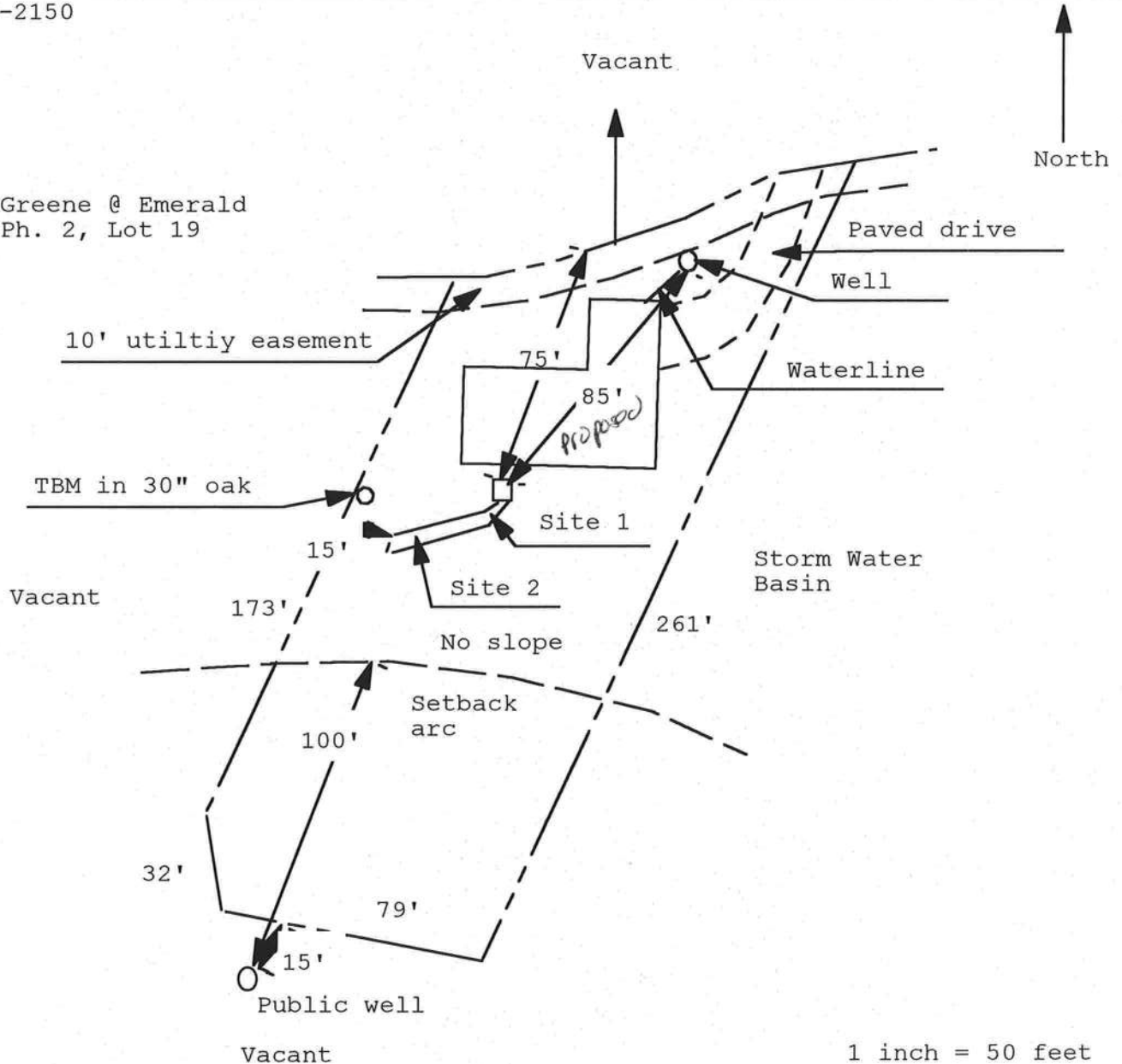
Notary Signature

Application for Onsite Sewage Disposal System  
Construction Permit. Part II Site Plan  
Permit Application Number: 04-0676N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HOWE/CR 03-2150

Arbor Greene @ Emerald  
Lakes Ph. 2, Lot 19



Site Plan Submitted By Paul Lloyd Date 6/14/04  
Plan Approved Paul Lloyd Not Approved Paul Lloyd Date 6/14/04  
By Paul Lloyd Lakshmi Coleman CPHU 6-24-04

Notes:

CAM112M01      CamaUSA Appraisal System  
 7/09/2004 12:32 **Legal Description Maintenance**  
 Year T Property      Sel  
 2004 R 28-3S-16-02372-619

Columbia County  
 18275 Land 001  
          AG 000  
          Bldg 000  
          Xfea 000  
 18275 TOTAL      B

**ARBOR GREENE PHS 2**  
**HOWE GERALD A & CAROLEE H**

1	LOT 19, ARBOR GREENE AT EMERALD LAKES, PHASE 2., WD 1018-366, . . . .	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 6/29/2004 KYLIE

F1=Task   F3=Exit   F4=Prompt   F10=GoTo   PGUP/PGDN   F24=MoreKeys



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs  
Residential Whole Building Performance Method A

Project Name:	405271HoweRes.	Builder:	Bryan Zecher
Address:	Lot: 19, Sub: Arbor greene 2, Plat:	Permitting Office:	
City, State:	Lake City, FL	Permit Number:	22079
Owner:		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: 43.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 11.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	No	c. N/A	
6. Conditioned floor area (ft²)	1766 ft²	13. Heating systems	
7. Glass area & type	Single Pane Double Pane	a. Electric Heat Pump	Cap: 43.0 kBtu/hr
a. Clear glass, default U-factor	0.0 ft² 314.2 ft²		HSPF: 7.00
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, 209.0(p) ft	a. Electric Resistance	Cap: 40.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Adjacent	R=11.0, 228.0 ft²	(HR-Heat recovery, Solar	
b. Face Brick, Wood, Exterior	R=11.0, 1524.0 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, 1914.0 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, 180.0 ft		
b. N/A			

Glass/Floor Area: 0.18

Total as-built points: 27362

Total base points: 27715

## 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:** 5/27/09 *Evan Beamsley*

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

**OWNER/AGENT:** *[Signature]*

**DATE:** 6/1/09 *[Signature]*

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: 19, Sub: Arbor greene 2, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT							
<b>GLASS TYPES</b>											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1766.0	20.04	6370.3	Double, Clear	N	9.3	7.0	20.0	19.20	0.67	256.7
				Double, Clear	N	9.3	9.5	66.8	19.20	0.71	915.3
				Double, Clear	NW	14.0	6.5	10.0	25.97	0.54	139.9
				Double, Clear	NW	7.0	6.5	15.0	25.97	0.62	243.4
				Double, Clear	N	1.5	6.5	40.0	19.20	0.95	727.7
				Double, Clear	NE	3.0	6.5	30.0	29.56	0.78	691.8
				Double, Clear	NW	3.0	6.5	15.0	25.97	0.80	312.5
				Double, Clear	NW	14.0	1.5	3.0	25.97	0.52	40.2
				Double, Clear	N	1.5	1.5	8.0	19.20	0.71	109.2
				Double, Clear	NE	3.0	1.5	6.0	29.56	0.47	84.1
				Double, Clear	NW	3.0	1.5	3.0	25.97	0.54	42.5
				Double, Clear	E	1.5	1.2	2.7	42.06	0.46	52.1
				Double, Clear	S	10.5	7.5	36.0	35.87	0.48	619.4
				Double, Clear	S	10.5	9.5	14.0	35.87	0.51	253.8
				Double, Clear	S	10.5	1.5	12.0	35.87	0.43	185.9
				Double, Clear	S	1.5	11.0	30.0	35.87	0.97	1047.2
				Double, Clear	W	1.5	1.3	2.7	38.52	0.50	52.1
				<b>As-Built Total:</b>		<b>314.2</b>			<b>5773.8</b>		
<b>WALL TYPES</b>				Area X BSPM = Points		Type	R-Value	Area X SPM = Points			
Adjacent	228.0	0.70	159.6			Frame, Wood, Adjacent	11.0	228.0	0.70	159.6	
Exterior	1524.0	1.70	2590.8			Face Brick, Wood, Exterior	11.0	1524.0	0.40	609.6	
<b>Base Total:</b>		<b>1752.0</b>	<b>2750.4</b>	<b>As-Built Total:</b>		<b>1752.0</b>		<b>769.2</b>			
<b>DOOR TYPES</b>				Area X BSPM = Points		Type	Area X SPM = Points				
Adjacent	37.0	2.40	88.8			Adjacent Insulated		20.0	1.60	32.0	
Exterior	20.0	6.10	122.0			Exterior Insulated		20.0	4.10	82.0	
						Adjacent Insulated		17.0	1.60	27.2	
<b>Base Total:</b>		<b>57.0</b>	<b>210.8</b>	<b>As-Built Total:</b>		<b>57.0</b>		<b>141.2</b>			
<b>CEILING TYPES</b>				Area X BSPM = Points		Type	R-Value	Area X SPM X SCM = Points			
Under Attic	1766.0	1.73	3055.2			Under Attic	30.0	1914.0	1.73 X 1.00	3311.2	
<b>Base Total:</b>		<b>1766.0</b>	<b>3055.2</b>	<b>As-Built Total:</b>		<b>1914.0</b>		<b>3311.2</b>			

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

ADDRESS: Lot: 19, Sub: Arbor greene 2, Plat: , Lake City, FL,

PERMIT #:

<b>BASE</b>				<b>AS-BUILT</b>			
<b>FLOOR TYPES</b> Area X BSPM = Points				Type	R-Value	Area X SPM = Points	
Slab	209.0(p)	-37.0	-7733.0	Slab-On-Grade Edge Insulation	0.0	209.0(p)	-41.20
Raised	0.0	0.00	0.0				
<b>Base Total:</b>				<b>As-Built Total:</b>		<b>209.0</b>	<b>-8610.8</b>
<b>INFILTRATION</b> Area X BSPM = Points				Area X SPM = Points			
	1766.0	10.21	18030.9			1766.0	10.21
<b>Summer Base Points: 22684.6</b>				<b>Summer As-Built Points: 19415.5</b>			
Total Summer Points	X System Multiplier	=	Cooling Points	Total Component	X Cap Ratio	X Duct Multiplier	X System Multiplier
						(DM x DSM x AHU)	X Credit Multiplier
<b>22684.6</b>	<b>0.4266</b>		<b>9677.2</b>	<b>19415.5</b>	<b>1.00</b>	<b>1.138</b>	<b>0.310</b>
							<b>1.000</b>
							<b>6853.7</b>
							<b>6853.7</b>



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 19, Sub: Arbor greene 2, 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	1766.0	12.74	4049.8	Double, Clear	N	9.3	7.0	20.0	24.58	1.02	502.2				
				Double, Clear	N	9.3	9.5	66.8	24.58	1.02	1671.4				
				Double, Clear	NW	14.0	6.5	10.0	24.30	1.03	251.2				
				Double, Clear	NW	7.0	6.5	15.0	24.30	1.03	373.9				
				Double, Clear	N	1.5	6.5	40.0	24.58	1.00	985.0				
				Double, Clear	NE	3.0	6.5	30.0	23.57	1.02	722.6				
				Double, Clear	NW	3.0	6.5	15.0	24.30	1.01	368.7				
				Double, Clear	NW	14.0	1.5	3.0	24.30	1.04	75.5				
				Double, Clear	N	1.5	1.5	8.0	24.58	1.02	200.2				
				Double, Clear	NE	3.0	1.5	6.0	23.57	1.06	149.5				
				Double, Clear	NW	3.0	1.5	3.0	24.30	1.03	75.3				
				Double, Clear	E	1.5	1.2	2.7	18.79	1.35	68.7				
				Double, Clear	S	10.5	7.5	36.0	13.30	3.20	1531.7				
				Double, Clear	S	10.5	9.5	14.0	13.30	2.90	540.4				
				Double, Clear	S	10.5	1.5	12.0	13.30	3.66	584.0				
				Double, Clear	S	1.5	11.0	30.0	13.30	1.00	400.5				
				Double, Clear	W	1.5	1.3	2.7	20.73	1.18	66.1				
				As-Built Total:								314.2		8567.0	
				WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
				Adjacent	228.0	3.60	820.8	Frame, Wood, Adjacent	11.0		228.0	3.60	820.8		
Exterior	1524.0	3.70	5638.8	Face Brick, Wood, Exterior	11.0		1524.0	3.50	5334.0						
Base Total: 1752.0 6459.6				As-Built Total:		1752.0		6154.8							
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points										
Adjacent	37.0	11.50	425.5	Adjacent Insulated				20.0	8.00	160.0					
Exterior	20.0	12.30	246.0	Exterior Insulated				20.0	8.40	168.0					
				Adjacent Insulated				17.0	8.00	136.0					
Base Total: 57.0 671.5				As-Built Total:		57.0		464.0							
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points								
Under Attic	1766.0	2.05	3620.3	Under Attic	30.0		1914.0	2.05 X 1.00	3923.7						
Base Total: 1766.0 3620.3				As-Built Total:		1914.0		3923.7							



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 19, Sub: Arbor greene 2, Plat: , Lake City, FL,

PERMIT #:

BASE				AS-BUILT			
FLOOR TYPES    Area X BWPM = Points				Type	R-Value	Area X WPM	= Points
Slab	209.0(p)	8.9	1860.1	Slab-On-Grade Edge Insulation	0.0	209.0(p)	3929.2
Raised	0.0	0.00	0.0				
Base Total:			1860.1	As-Built Total:		209.0	3929.2
INFILTRATION    Area X BWPM = Points				Area X WPM = Points			
	1766.0	-0.59	-1041.9			1766.0	-1041.9
Winter Base Points:			15619.4	Winter As-Built Points:			21996.7
Total Winter Points	X System Multiplier	= Heating Points		Total Component	X Cap Ratio	X Duct Multiplier	X System X Credit = Heating Points
						(DM x DSM x AHU)	
15619.4	0.6274	9799.6		21996.7	1.00	(1.069 x 1.169 x 0.93)	0.487
				21996.7	1.00	1.162	0.487
							1.000
							1.000
							12453.4
							12453.4

**WATER HEATING & CODE COMPLIANCE STATUS**

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 19, Sub: Arbor greene 2, 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						
3		2746.00	8238.0	40.0	0.90	3		1.00	2684.98
									1.00
									8054.9
				As-Built Total:					8054.9

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling	+	Heating	+	Cooling	+	Heating	+
Points		Points		Points		Points	
			=				=
Hot Water			Total	Hot Water			Total
Points		Points	Points	Points		Points	Points
9677		9800	8238	6854		12453	8055
			27715				27362

**PASS**

# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 19, Sub: Arbor greene 2, 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\* = 83.4**

The higher the score, the more efficient the home.

, Lot: 19, Sub: Arbor greene 2, 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: 43.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 11.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	No	___	c. N/A	___
6. Conditioned floor area (ft <sup>2</sup> )	1766 ft <sup>2</sup>	___		___
7. Glass area & type	Single Pane	Double Pane		___
a. Clear glass, default U-factor	0.0 ft <sup>2</sup>	314.2 ft <sup>2</sup>	13. Heating systems	
b. Default tint, default U-factor	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 43.0 kBtu/hr
c. Labeled U-factor or SHGC	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>		HSPF: 7.00
8. Floor types			b. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 209.0(p) ft	___	c. N/A	___
b. N/A	___	___		___
c. N/A	___	___	14. Hot water systems	
9. Wall types			a. Electric Resistance	Cap: 40.0 gallons
a. Frame, Wood, Adjacent	R=11.0, 228.0 ft <sup>2</sup>	___		EF: 0.90
b. Face Brick, Wood, Exterior	R=11.0, 1524.0 ft <sup>2</sup>	___	b. N/A	___
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, 1914.0 ft <sup>2</sup>	___	(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, 180.0 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 at 850/487-1824.

EnergyGauge® (Version: FLR2PB v3.4)

# 22079

## NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF Columbia

LOAN NO. 2004-1865

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 THE NOTICE OF COMMENCEMENT. THIS NOTICE IS VOID AND OF NO FORCE AND EFFECT IF CONSTRUCTION IS NOT COMMENCED WITHIN (90) DAYS OF RECORDATION.

1. PROPERTY DESCRIPTION

A. Street Address or Location Description:

941 NW Zack Drive  
Lake City, FLORIDA 32055

B. Legal Description:

See Legal description attached hereto and made a part hereof: as exhibit "A"

2. GENERAL DESCRIPTION OF IMPROVEMENTS:

CONSTRUCTION OF SINGLE FAMILY DWELLING

79 Turkey Creek 7408 NW 1st Lane  
Mailing Address  
Alachua, FL 32615

3. A. OWNER INFORMATION NAME AND ADDRESS:

Name: Gerald A. Howe AND Carolee H. Howe

Address: 941 NW Zack Drive  
Lake City, FLORIDA 32055

B. OWNER'S INTEREST IN THE SITE OF IMPROVEMENT IS: FEE SIMPLE

C. NAME AND ADDRESS OF FEE SIMPLE TITLEHOLDER (IF OTHER THAN OWNER)

Name:  
Address:

4. NAME AND ADDRESS OF CONTRACTOR:

Name: Bryan Zecher Construction, Inc.

Address: 465 NW Orange St.  
Lake City, FL 32055

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

Fax Number: \_\_\_\_\_

5. SURETY (IF ANY):

Name:  
Address:  
Amount of Bond:

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: M. K. R.  
Deputy Clerk

Date: 6-14-04

6. LENDER MAKING CONSTRUCTION LOAN:

Name: CNB NATIONAL BANK  
Address: 187 SW BAY DR., P.O. BOX 3239  
LAKE CITY, FLORIDA 32025

7. PERSON DESIGNATED BY OWNER UPON WHOM NOTICES OR OTHER DOCUMENTS MAY  
SERVED AS PROVIDED BY SECTION 713.13 (1) (a) FLORIDA STATUTES:

Name:  
Address:

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

Fax Number: \_\_\_\_\_



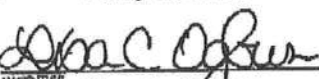
Inst:2004013653 Date:06/14/2004 Time:12:41  
 \_\_\_\_\_ DC, P. Dewitt Cason, Columbia County B:1018 P:331.

8. OWNER DESIGNATES THE FOLLOWING PERSON IN ADDITION TO HIMSELF TO RECEIVE A COPY OF THE LIENORS NOTICE AS PROVIDED IN SECTION 713.13 (1) (b), FLORIDA STATUTES:

Name: CNB NATIONAL BANK  
 Address: 187 SW BAYA DR., P.O. BOX 3239  
 LAKE CITY, FLORIDA 32025  
 Attn:

9. EXPIRATION DATE OF NOTICE OF COMMENCEMENT (THE EXPIRATION DATE IS 1 YEAR FROM THE DATE OF RECORDING UNLESS A DIFFERENT DATE IS SPECIFIED.)

  
 WITNESS Terry McDavid

  
 WITNESS Lisa C. Osburn

  
 OWNER Gerald A. Howe

  
 OWNER Carolee H. Howe

OWNER \_\_\_\_\_

OWNER \_\_\_\_\_

State of Florida

The following instrument was acknowledged before me this JUNE 10, 2004  
 Gerald A. Howe AND Carolee H. Howe

by

who is personally known to me or who has produced  
 who did take an oath.

as identification and

NOTARY PUBLIC  
 (Seal)



MY COMMISSION EXPIRES: \_\_\_\_\_



# Columbia County Building Department Culvert Permit

Culvert Permit No.  
**000000356**

DATE 07/14/2004 PARCEL ID # 28-3S-16-02372-619  
APPLICANT BRYAN ZECHER PHONE 752-8653  
ADDRESS P.O. BOX 815 LAKE CITY FL 32056  
OWNER GERALD & CAROLEE HOWE PHONE \_\_\_\_\_  
ADDRESS 941 NW ZACK DRIVE LAKE CITY FL 32055  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY 90W, TR ON BROWN ROAD, TL ON WINDING WAY, TL ON EMERALD LAKES  
DRIVE, TL ON ZACK, HOUSE ON RIGHT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT AR GREEN/EM LAKES 19 2

SIGNATURE

## 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 INSTALATION OF THE CULVERT.

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

Amount Paid 25.00



10974

**Notice of Treatment**

**Applicator** Florida Pest Control & Chemical Co.

**Address** 536 SE Baya

**City** Lake City **Phone** 752-1783

**Site Location** **Subdivision** Emerald Lakes

**Lot#** 19 **Block#**      **Permit#** 22079

**Address** 941 NW 2nd DR

**AREAS TREATED**

**Print Technician's  
Name**

Area Treated	Date	Time	Gal.	Name
Main Body	8-4-04	140	500	Travis
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** DWSDANTIC 5 %

**Remarks**



# BAILEY BISHOP & LANE, INC.


*Engineers**Surveyors**Planners*

## FLOOR ELEVATION CERTIFICATION

PROPERTY DESCRIPTION: **ARBOR GREEN AT EMERALD LAKES**  
**LOT 19**  
**COLUMBIA COUNTY, FL**

OWNER: **GERALD & CAROLEE HOWE**

PROJECT REQUIREMENTS: For protection against water damage, the minimum finish floor elevation of the proposed building shall be **16** inches above the highest existing ground elevation at the proposed building. 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: July 2, 2004



### Notice of Treatment

**Applicator** Florida Pest Control & Chemical Co.

**Address** 536 SE BAYA DR

**City** Lake City **Phone** (386) 752-1703

**Site Location** **Subdivision** Emerald Lakes

**Lot#** 19 **Block#**  **Permit#** 22079

**Address** 941 NW Zack Drive

#### AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body				
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation	<u>12-22-04</u>	<u>145</u>	<u>100</u>	<u>RD Crawford</u>
Driveway Apron				
Out Building				
Tub Trap/s				
(Other)				

**Name of Product Applied** Dursban TC .05 %

**Remarks** NOTE: No indication of pretreat on Driveway Apron or Sidewalk, should contact owner before Drilling. RDC

Applicator - White • Permit File - Canary • Permit Holder - Pink

**GERALD & CAROL  
HOWE**

# 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-16-02372-619

Building permit No. 000022079

Use Classification SFD, UTILITY

Fire:           

Permit Holder BRYAN ZECHER

Waste:           

Owner of Building GERALD & CAROLEE HOWE

Total: - 0 -

Location: 941 NW ZACK DRIVE, LAKE CITY

Date: 01/06/2005



*Taney Deich*

Building Inspector

**POST IN A CONSPICUOUS PLACE**  
*(Business Places Only)*