

DATE 09/22/2005**Columbia County Building Permit****PERMIT**

This Permit Expires One Year From the Date of Issue

000023640

APPLICANT SUSAN FAIRPHONE 752-5218ADDRESS 180 NW AMENITY COURT

LAKE CITY

FL 32055OWNER CORNERSTONE DEVELOPERSPHONE 752-5218ADDRESS 311 SE VICTORIA GLEN

LAKE CITY

FL 32025CONTRACTOR BRYAN ZECHERPHONE 752-8653LOCATION OF PROPERTY BAYA, TR ON OLD COUNTRY CLUB RD, TL ON VICTORIA GLEN,  
6TH OT ON LEFTTYPE DEVELOPMENT SFD, UTILITY

ESTIMATED COST OF CONSTRUCTION

70000.00HEATED FLOOR AREA 1400.00TOTAL AREA 1929.00HEIGHT .00STORIES 1FOUNDATION CONCWALLS FRAMEDROOF PITCH 6/12FLOOR SLABLAND USE & ZONING RSF-2MAX. HEIGHT 16Minimum Set Back Requirements: STREET-FRONT 25.00REAR 15.00SIDE 10.00NO. EX.D.U. 0FLOOD ZONE X PP

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

PARCEL ID 15-4S-17-08359-106SUBDIVISION COUNTRY SIDE ESTATESLOT 6 BLOCK \_\_\_\_\_ PHASE \_\_\_\_\_ UNIT \_\_\_\_\_ TOTAL ACRES \_\_\_\_\_

00000822

CBC054575

Culvert Permit No. \_\_\_\_\_

Culvert Waiver \_\_\_\_\_

Contractor's License Number \_\_\_\_\_

Applicant/Owner/Contractor Susan Fair

CULVERT \_\_\_\_\_

05-0933-N

BK

Y

Driveway Connection \_\_\_\_\_

Septic Tank Number \_\_\_\_\_

LU &amp; Zoning checked by \_\_\_\_\_

Approved for Issuance \_\_\_\_\_

New Resident \_\_\_\_\_

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

ALTERNATIVE TREATMENT RECEIVED \_\_\_\_\_

Check # or Cash 1854**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 \$ 350.00 CERTIFICATION FEE \$ 9.64 SURCHARGE FEE \$ 9.64MISC. FEES \$ .00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ \_\_\_\_\_ WASTE FEE \$ \_\_\_\_\_FLOOD ZONE DEVELOPMENT FEE \$ \_\_\_\_\_ CULVERT FEE \$ 25.00 TOTAL FEE 444.28

## Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0509-04 Date Received 9-1-05 By LH Permit # 822/23640  
Application Approved by - Zoning Official BLK Date 26.09.05 Plans Examiner OK JTH Date 9-12-05  
Flood Zone Xp-1pt Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. L-100  
Comments EH

Applicants Name CHRIS COX Phone 386-867-0633  
Address 252 NW IVY GLEN LAKE CITY FLORIDA 32055  
Owners Name CORNERSTONE DEVELOPERS Phone 386-752-1711  
911 Address 311 SE VICTORIA GLEN LAKE CITY, FL. 32085  
Contractors Name BRYAN ZECHE Phone 386-752-8653  
Address PO BOX 815 LAKE CITY FL 32056  
Fee Simple Owner Name & Address NA  
Bonding Co. Name & Address NA  
Architect/Engineer Name & Address MARK DISOWAY PO BOX 868 LAKE CITY FL 32056  
Mortgage Lenders Name & Address NA  
Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy  
Property ID Number 15-45-17E-08359-106 Estimated Cost of Construction 60,000.00  
Subdivision Name Countryside estates Lot 6 Block      Unit      Phase       
Driving Directions BYVA TO OLD COUNTRY INDR. GO RIGHT 3 MILES AND TURN LEFT ON VICTORIA GLEN. 6TH LOT ON LEFT

Type of Construction FRAME + HARDI Number of Existing Dwellings on Property 0  
Total Acreage 42 ACRES 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 27' Side 45' Side 45' Rear 44'  
Total Building Height 16' 7" Number of Stories 1 Heated Floor Area 1400 Roof Pitch 6/12  
PORCH 35 GARAGE 494 TOTAL 1929

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.**

Chris W. Cox  
Owner Builder or Agent (Including Contractor)

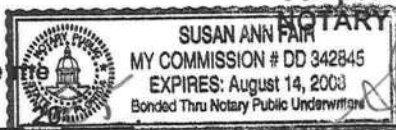
X  
Contractor Signature  
Contractors License Number CBC054575  
Competency Card Number     

STATE OF FLORIDA  
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 31st day of August

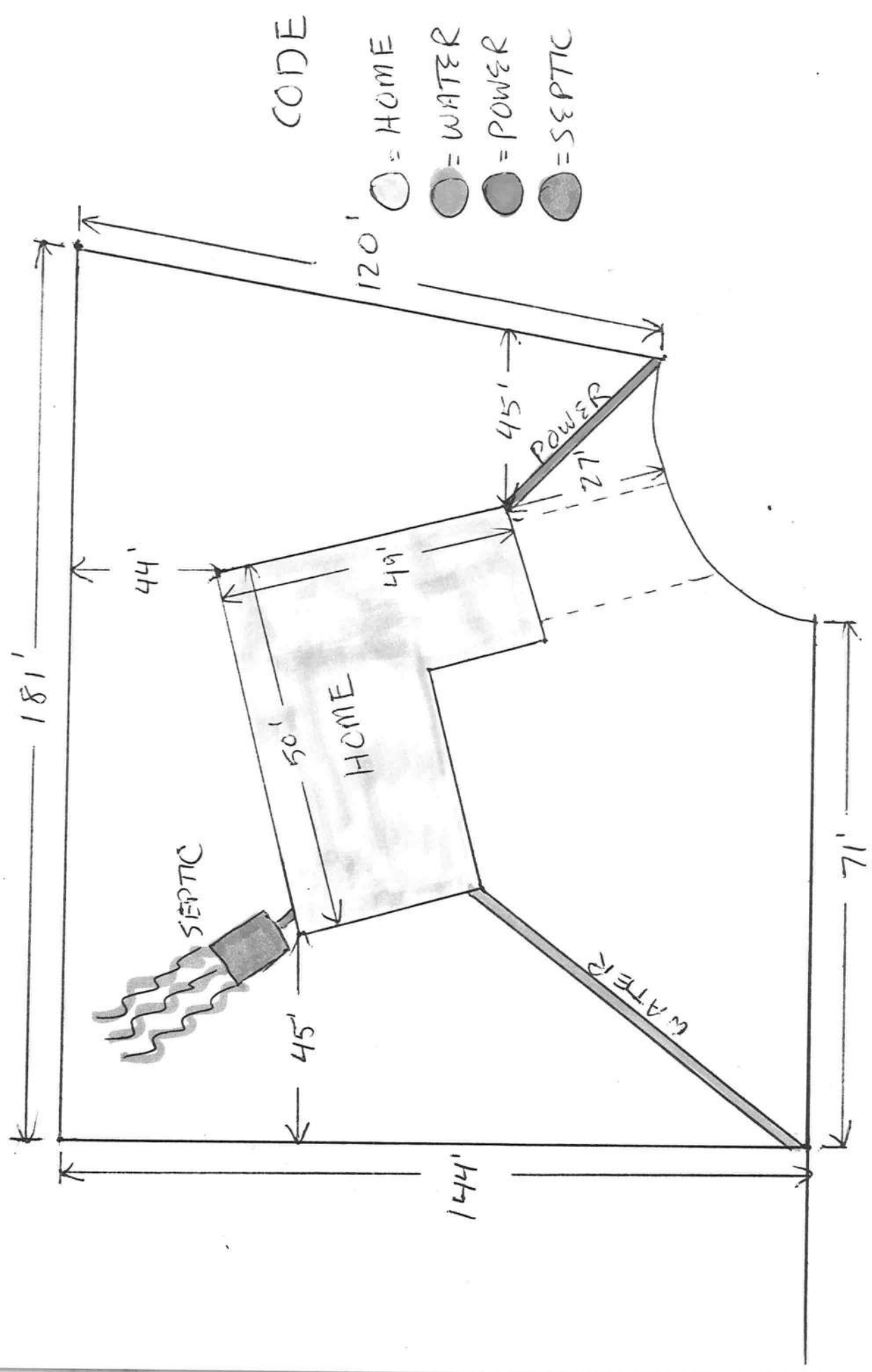
Personally known ✓ or Produced Identification     



NOTARY STAMP/SEAL

Susan Ann Fair  
Notary Signature

# COUNTRYSIDE ESTATES LOT 6 SITE PLAN



# FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

## Residential Whole Building Performance Method A

Project Name: **TheMatthewModel**  
 Address: **Lot: , Sub: , Plat:**  
 City, State: **, FL**  
 Owner: **Model House**  
 Climate Zone: **North**

Builder: **Bryan Zecher**  
 Permitting Office: **Columbia Co.**  
 Permit Number: **23640**  
 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               | 3                    | —           |
| 5. Is this a worst case?            | Yes                  | —           |
| 6. Conditioned floor area (ft²)     | 1400 ft²             | —           |
| 7. Glass area & type                | Single Pane          | Double Pane |
| a. Clear glass, default U-factor    | 0.0 ft²              | 152.5 ft²   |
| b. Default tint, default U-factor   | 0.0 ft²              | 0.0 ft²     |
| c. Labeled U-factor or SHGC         | 0.0 ft²              | 0.0 ft²     |
| 8. Floor types                      |                      |             |
| a. Slab-On-Grade Edge Insulation    | R=0.0, 164.0(p) ft   | —           |
| b. N/A                              | —                    | —           |
| c. N/A                              | —                    | —           |
| 9. Wall types                       |                      |             |
| a. Frame, Wood, Adjacent            | R=13.0, 172.0 ft²    | —           |
| b. Frame, Wood, Exterior            | R=13.0, 927.0 ft²    | —           |
| c. N/A                              | —                    | —           |
| d. N/A                              | —                    | —           |
| e. N/A                              | —                    | —           |
| 10. Ceiling types                   |                      |             |
| a. Under Attic                      | R=30.0, 1450.0 ft²   | —           |
| b. N/A                              | —                    | —           |
| c. N/A                              | —                    | —           |
| 11. Ducts                           |                      |             |
| a. Sup: Unc. Ret: Unc. AH: Interior | Sup. R=6.0, 160.0 ft | —           |
| b. N/A                              | —                    | —           |

- |                         |  |
|-------------------------|--|
| 12. Cooling systems     |  |
| a. Central Unit         | Cap: 26.0 kBtu/hr<br>SEER: 10.00   |
| b. N/A                  | —  |
| c. N/A                  | —  |
| 13. Heating systems     |  |
| a. Electric Heat Pump   | Cap: 26.0 kBtu/hr<br>HSPF: 7.00  |
| b. N/A                  | —  |
| c. N/A                  | —  |
| 14. Hot water systems   |  |
| a. Electric Resistance  | Cap: 40.0 gallons<br>EF: 0.89  |
| b. N/A                  | —  |
| c. Conservation credits | (HR-Heat recovery, Solar<br>DHP-Dedicated heat pump)   |
| 15. HVAC credits        | (CF-Ceiling fan, CV-Cross ventilation,<br>HF-Whole house fan,<br>PT-Programmable Thermostat,<br>MZ-C-Multizone cooling,<br>MZ-H-Multizone heating) |

Glass/Floor Area: 0.11

Total as-built points: 21891

Total base points: 22989

# 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: 8/20/05

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

OWNER/AGENT: Columbia Co.

DATE: 8-31-05

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: , 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	1400.0	20.04	5050.1	Double, Clear	E	1.5	5.5	75.0	42.06	0.90	2827.4
				Double, Clear	E	1.5	7.5	20.0	42.06	0.95	798.0
				Double, Clear	S	1.5	3.5	7.5	35.87	0.70	189.3
				Double, Clear	W	6.5	7.0	14.0	38.52	0.55	295.3
				Double, Clear	W	0.0	0.0	30.0	38.52	1.00	1155.7
				Double, Clear	N	1.5	3.5	6.0	19.20	0.86	99.0
				As-Built Total:		152.5				5364.6	
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	172.0	0.70	120.4	Frame, Wood, Adjacent	13.0		172.0	0.60	103.2		
Exterior	927.0	1.70	1575.9	Frame, Wood, Exterior	13.0		927.0	1.50	1390.5		
Base Total: 1099.0 1696.3				As-Built Total:		1099.0				1493.7	
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	20.0	2.40	48.0	Exterior Insulated				20.0	4.10	82.0	
Exterior	40.0	6.10	244.0	Exterior Insulated				20.0	4.10	82.0	
				Adjacent Insulated				20.0	1.60	32.0	
Base Total: 60.0 292.0				As-Built Total:		60.0			196.0		
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1400.0	1.73	2422.0	Under Attic	30.0		1450.0	1.73 X 1.00	2508.5		
Base Total: 1400.0 2422.0				As-Built Total:		1450.0			2508.5		
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	164.0(p)	-37.0	-6068.0	Slab-On-Grade Edge Insulation	0.0		164.0(p)	-41.20	-6756.8		
Raised	0.0	0.00	0.0								
Base Total: -6068.0				As-Built Total:		164.0			-6756.8		
INFILTRATION Area X BSPM = Points				Area X SPM = Points							
	1400.0	10.21	14294.0	1400.0 10.21 14294.0							

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

ADDRESS: Lot: , Sub: , Plat: , , FL,

PERMIT #:

BASE					AS-BUILT										
Summer Base Points:		17686.4			Summer As-Built Points:					17100.0					
Total Summer Points	X	System Multiplier	=	Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	=	Cooling Points
17686.4		0.4266		7545.0	17100.0		1.000		(1.090 x 1.147 x 0.91)		0.341		1.000		6639.9
17686.4		0.4266		7545.0	17100.0		1.00		1.138		0.341		1.000		6639.9



# WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , , FL,

PERMIT #:

BASE				AS-BUILT									
GLASS TYPES													
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang		Area X WPM X WOF = Points						
				Ornt	Len	Hgt	Area	X WPM	X WOF	Points			
.18	1400.0	12.74	3210.5	Double, Clear	E	1.5	5.5	75.0	18.79	1.04	1467.7		
				Double, Clear	E	1.5	7.5	20.0	18.79	1.02	384.5		
				Double, Clear	S	1.5	3.5	7.5	13.30	1.47	146.3		
				Double, Clear	W	6.5	7.0	14.0	20.73	1.16	336.3		
				Double, Clear	W	0.0	0.0	30.0	20.73	1.00	621.8		
				Double, Clear	N	1.5	3.5	6.0	24.58	1.01	148.6		
				As-Built Total:				152.5				3105.2	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points						
Adjacent	172.0	3.60	619.2	Frame, Wood, Adjacent	13.0		172.0	3.30	567.6				
Exterior	927.0	3.70	3429.9	Frame, Wood, Exterior	13.0		927.0	3.40	3151.8				
Base Total:				1099.0		4049.1		As-Built Total:				1099.0	3719.4
DOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points						
Adjacent	20.0	11.50	230.0	Exterior Insulated			20.0	8.40	168.0				
Exterior	40.0	12.30	492.0	Exterior Insulated			20.0	8.40	168.0				
				Adjacent Insulated			20.0	8.00	160.0				
Base Total:				60.0		722.0		As-Built Total:				60.0	496.0
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points						
Under Attic	1400.0	2.05	2870.0	Under Attic	30.0		1450.0	2.05 X 1.00	2972.5				
Base Total:				1400.0		2870.0		As-Built Total:				1450.0	2972.5
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points						
Slab	164.0(p)	8.9	1459.6	Slab-On-Grade Edge Insulation	0.0		164.0(p)	18.80	3083.2				
Raised	0.0	0.00	0.0										
Base Total:				1459.6		As-Built Total:		164.0		3083.2			
INFILTRATION Area X BWPM = Points				Area X WPM = Points									
1400.0				-0.59		-826.0		1400.0				-0.59	-826.0

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

ADDRESS: Lot: , Sub: , Plat: , , FL,

PERMIT #:

BASE				AS-BUILT							
Winter Base Points: 11485.2				Winter As-Built Points: 12550.3							
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	
11485.2		0.6274	7205.8	12550.3 12550.3		1.000 1.00	(1.069 x 1.169 x 0.93) 1.162	0.487 0.487	1.000 1.000	7105.4 7105.4	



## WATER HEATING & CODE COMPLIANCE STATUS

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , Plat: , , FL, PERMIT #:

BASE					AS-BUILT							
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	X Multiplier	X Credit Multiplier	= Total
3		2746.00		8238.0	40.0	0.89	3		1.00	2715.15	1.00	8145.4
					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
7545		7206		8238	22989	6640		7105		8145	21891

# PASS



# Code Compliance Checklist

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: , Sub: , 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\* = 83.5**

The higher the score, the more efficient the home.

Model House, Lot: , Sub: , Plat: , , FL,

1. New construction or existing	New	___	12. Cooling systems	
2. Single family or multi-family	Single family	___	a. Central Unit	Cap: 26.0 kBtu/hr
3. Number of units, if multi-family	1	___		SEER: 10.00
4. Number of Bedrooms	3	___	b. N/A	___
5. Is this a worst case?	Yes	___	c. N/A	___
6. Conditioned floor area (ft <sup>2</sup> )	1400 ft <sup>2</sup>	___		___
7. Glass area & type	Single Pane	Double Pane	13. Heating systems	
a. Clear glass, default U-factor	0.0 ft <sup>2</sup>	152.5 ft <sup>2</sup>	a. Electric Heat Pump	Cap: 26.0 kBtu/hr
b. Default tint, default U-factor	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>		HSPF: 7.00
c. Labeled U-factor or SHGC	0.0 ft <sup>2</sup>	0.0 ft <sup>2</sup>	b. N/A	___
8. Floor types			c. N/A	___
a. Slab-On-Grade Edge Insulation	R=0.0, 164.0(p) ft	___		___
b. N/A	___	___	14. Hot water systems	
c. N/A	___	___	a. Electric Resistance	Cap: 40.0 gallons
9. Wall types				EF: 0.89
a. Frame, Wood, Adjacent	R=13.0, 172.0 ft <sup>2</sup>	___	b. N/A	___
b. Frame, Wood, Exterior	R=13.0, 927.0 ft <sup>2</sup>	___	c. Conservation credits	___
c. N/A	___	___	(HR-Heat recovery, Solar	___
d. N/A	___	___	DHP-Dedicated heat pump)	___
e. N/A	___	___	15. HVAC credits	___
10. Ceiling types			(CF-Ceiling fan, CV-Cross ventilation,	___
a. Under Attic	R=30.0, 1450.0 ft <sup>2</sup>	___	HF-Whole house fan,	___
b. N/A	___	___	PT-Programmable Thermostat,	___
c. N/A	___	___	MZ-C-Multizone cooling,	___
11. Ducts			MZ-H-Multizone heating)	___
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 160.0 ft	___		___
b. N/A	___	___		___

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: Chris W. Co Date: 8-31-05

Address of New Home: 311 SE VICTORIA GLEN City/FL Zip: LAKE CITY FL 32005



\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at [www.fsec.ucf.edu](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 (Version: FLR2PB v3.4)

# Residential System Sizing Calculation

## Summary

Model House

Project Title:  
TheMatthewModel

Class 3 Rating  
Registration No. 0  
Climate: North

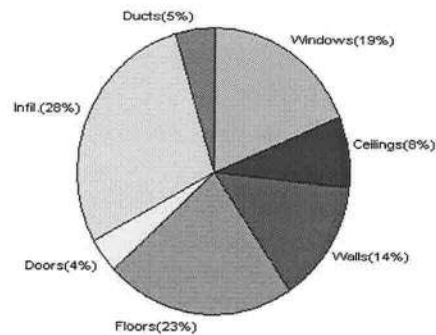
1/18/2005

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>22966 Btuh</b>	<b>Total cooling load calculation</b>	<b>21806 Btuh</b>
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	113.2 26000	Sensible (SHR = 0.75)	122.8 19500
Heat Pump + Auxiliary(0.0kW)	113.2 26000	Latent	109.8 6500
		Total (Electric Heat Pump)	119.2 26000

## WINTER CALCULATIONS

Winter Heating Load (for 1400 sqft)

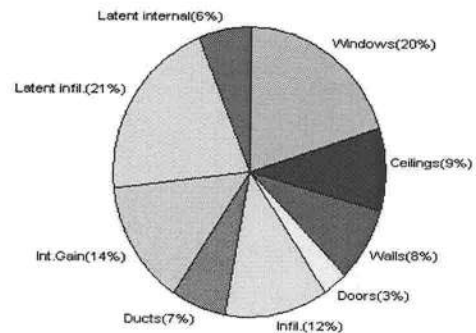
Load component	Load
Window total 153 sqft	4316 Btuh
Wall total 1099 sqft	3149 Btuh
Door total 60 sqft	921 Btuh
Ceiling total 1450 sqft	1885 Btuh
Floor total 164 ft	5182 Btuh
Infiltration 150 cfm	6419 Btuh
<b>Subtotal</b>	<b>21872 Btuh</b>
Duct loss	1094 Btuh
<b>TOTAL HEAT LOSS</b>	<b>22966 Btuh</b>



## SUMMER CALCULATIONS

Summer Cooling Load (for 1400 sqft)

Load component	Load
Window total 153 sqft	4390 Btuh
Wall total 1099 sqft	1792 Btuh
Door total 60 sqft	608 Btuh
Ceiling total 1450 sqft	2059 Btuh
Floor total	0 Btuh
Infiltration 131 cfm	2592 Btuh
Internal gain	3000 Btuh
<b>Subtotal(sensible)</b>	<b>14442 Btuh</b>
Duct gain	1444 Btuh
<b>Total sensible gain</b>	<b>15886 Btuh</b>
Latent gain(infiltration)	4541 Btuh
Latent gain(internal)	1380 Btuh
<b>Total latent gain</b>	<b>5921 Btuh</b>
<b>TOTAL HEAT GAIN</b>	<b>21806 Btuh</b>



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY:

DATE:

8/20/05

# System Sizing Calculations - Winter

## Residential Load - Component Details

Model House

Project Title:  
TheMatthewModel

Class 3 Rating  
Registration No. 0  
Climate: North

, FL

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

1/18/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	75.0	28.3	2122 Btuh
2	2, Clear, Metal, DEF	N	20.0	28.3	566 Btuh
3	2, Clear, Metal, DEF	E	7.5	28.3	212 Btuh
4	2, Clear, Metal, DEF	S	14.0	28.3	396 Btuh
5	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	W	6.0	28.3	170 Btuh
Window Total			153		4316 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Adjacent	13.0	172	1.6	275 Btuh
2	Frame - Exterior	13.0	927	3.1	2874 Btuh
Wall Total			1099		3149 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		20	18.3	367 Btuh
2	Insulated - Exter		20	18.3	367 Btuh
3	Insulated - Adjac		20	9.4	188 Btuh
Door Total			60		921 Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1450	1.3	1885 Btuh
Ceiling Total			1450		1885 Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	164.0 ft(p)	31.6	5182 Btuh
Floor Total			164		5182 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	11200(sqft)	150	6419 Btuh
	Mechanical			0	0 Btuh
Infiltration Total				150	6419 Btuh

<b>Totals for Heating</b>	<b>Subtotal</b>	<b>21872 Btuh</b>
	<b>Duct Loss(using duct multiplier of 0.05)</b>	<b>1094 Btuh</b>
	<b>Total Btuh Loss</b>	<b>22966 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

Model House

Project Title:  
TheMatthewModel

Class 3 Rating  
Registration No. 0  
Climate: North

, FL

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F

1/18/2005

Window	Type	Overhang		Window Area(sqft)			HTM		Load		
	Panes/SHGC/U/InSh/ExSh Omt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, DEF, N, N	N	1.5	5.5	75.0	0.0	75.0	22	22	1650	Btuh
2	2, Clear, DEF, N, N	N	1.5	7.5	20.0	0.0	20.0	22	22	440	Btuh
3	2, Clear, DEF, N, N	E	1.5	3.5	7.5	1.3	6.2	22	72	474	Btuh
4	2, Clear, DEF, N, N	S	6.5	7	14.0	14.0	0.0	22	37	308	Btuh
5	2, Clear, DEF, N, N	S	0	0	30.0	0.0	30.0	22	37	1110	Btuh
6	2, Clear, DEF, N, N	W	1.5	3.5	6.0	0.5	5.5	22	72	408	Btuh
Window Total					153					4390	Btuh
Walls	Type	R-Value			Area		HTM		Load		
1	Frame - Adjacent	13.0			172.0		1.0		179 Btuh		
2	Frame - Exterior	13.0			927.0		1.7		1613 Btuh		
Wall Total					1099.0				1792 Btuh		
Doors	Type				Area		HTM		Load		
1	Insulated - Exter				20.0		10.1		203 Btuh		
2	Insulated - Exter				20.0		10.1		203 Btuh		
3	Insulated - Adjac				20.0		10.1		203 Btuh		
Door Total					60.0				608 Btuh		
Ceilings	Type/Color	R-Value			Area		HTM		Load		
1	Under Attic/Dark	30.0			1450.0		1.4		2059 Btuh		
Ceiling Total					1450.0				2059 Btuh		
Floors	Type	R-Value			Size		HTM		Load		
1	Slab-On-Grade Edge Insulation	0.0			164.0 ft(p)		0.0		0 Btuh		
Floor Total					164.0				0 Btuh		
Infiltration	Type	ACH			Volume		CFM=		Load		
	Natural	0.70			11200		130.9		2592 Btuh		
	Mechanical						0		0 Btuh		
	Infiltration Total						131		2592 Btuh		

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

Totals for Cooling	Subtotal	14442 Btuh
	Duct gain(using duct multiplier of 0.10)	1444 Btuh
	Total sensible gain	15886 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	4541 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
TOTAL GAIN		21806 Btuh

# Manual J Summer Calculations

## Residential Load - Component Details (continued)

Model House

Project Title:  
TheMatthewModel

Class 3 Rating  
Registration No. 0  
Climate: North

, FL

1/18/2005

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)



Lot 6 CSE

NOTICE OF COMMENCEMENT FORM  
COLUMBIA COUNTY, FLORIDA

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

Tax Parcel ID Number 15-45-17-08359-106

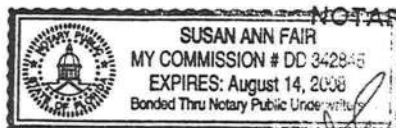
1. Description of property: (legal description of the property and street address or 911 address)  
311 SE Victoria Glen  
Lake City, FL 32025
2. General description of Improvement: New Home
3. Owner Name & Address Cornestone Development Group, LLC  
180 N.W. Amenity Ct Lake City, FL Interest In Property Fee Simple
4. Name & Address of Fee Simple Owner (if other than owner): \_\_\_\_\_
5. Contractor Name Bryan Zecher Construction Phone Number 386-752-8653  
Address PO Box 815, Lake City, FL 32056
6. Surety Holders Name NA Inst: 2005021274 Date: 08/31/2005 Time: 13:04  
Address \_\_\_\_\_ MK DC, P. DeWitt Cason, Columbia County B: 1056 P: 2480  
Amount of Bond NA
7. Lender Name NA  
Address \_\_\_\_\_
8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:  
Name NA Phone Number \_\_\_\_\_  
Address \_\_\_\_\_
9. In addition to himself/herself the owner designates NA of \_\_\_\_\_  
to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -  
(a) 7. Phone Number of the designee NA
10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording.  
(Unless a different date is specified) NA

NOTICE AS PER CHAPTER 713, Florida Statutes:

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

Signature of Owner

Sworn to (or affirmed) and subscribed before  
day of Aug 26, 2005



NOTARY STAMP/SEAL

Susan Ann Fair

Signature of Notary

# Notice of Intent for Preventative Treatment for Termites

(As required by Florida Building Code 104.2.6)

Date: 8-31-05

Countryside estates

LOT 6

311 SE VICTORIA GLEN

LAKE CITY

(Address of Treatment or Lot/Block of Treatment)

City

## Florida Pest Control & Chemical Co.

[www.flapest.com](http://www.flapest.com)

Product to be used: Bora-Care Termiticide (Wood Treatment)

Chemical to be used: 23% Disodium Octaborate Tetrahydrate

Application will be performed onto structural wood at dried-in stage of construction. Bora-Care Termiticide application shall be applied according to EPA registered label directions as stated in the Florida Building Code Section 1861.1.8

(Information to be provided to local building code offices prior to concrete foundation installation.)

# COLUMBIA COUNTY 9-1-1 ADDRESSING

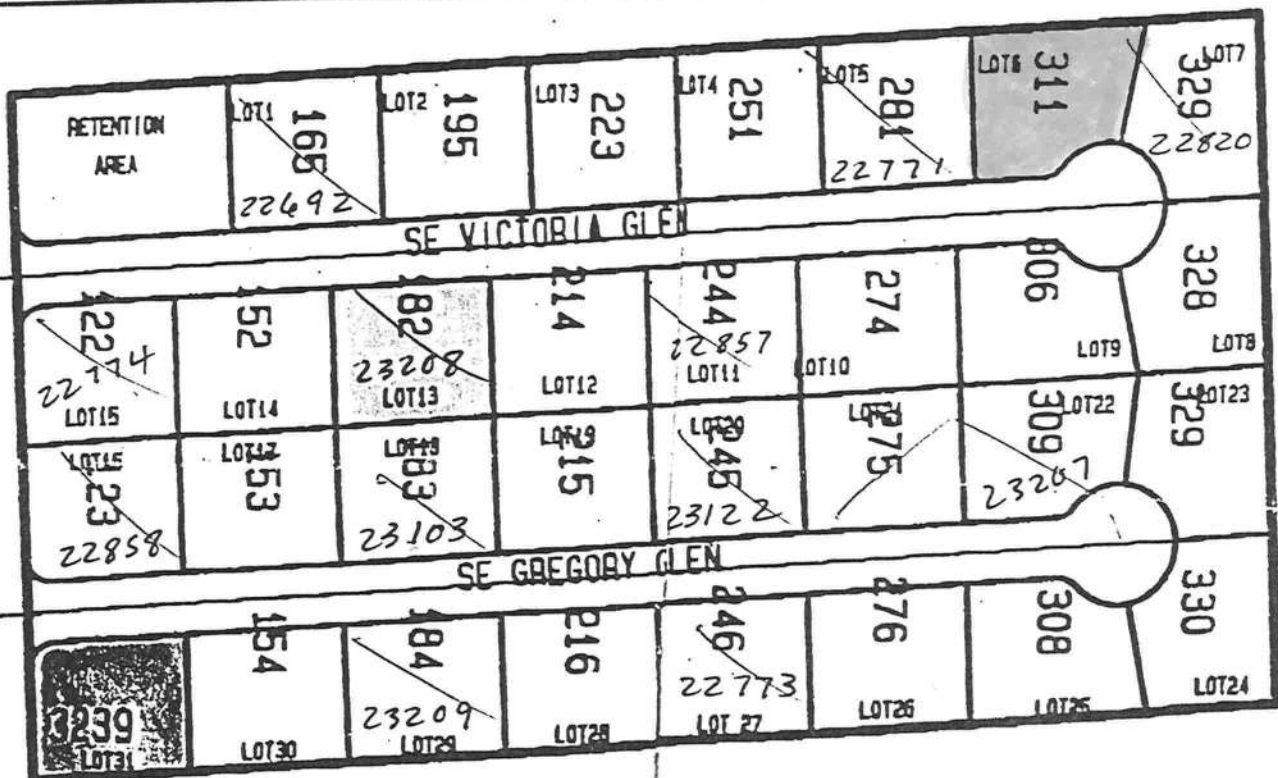
263 NW Lake City Ave. • P. O. Box 2949 • Lake City, FL 32056-2949  
 PHONE: (386) 752-8787 • FAX (386) 758-1365 • Email: ron\_croft@columbiacountyfla.com

32025

Addresses for Country Side Estates Subdivision:

Lot #:	Address Assigned:
1	165 SE Victoria Glen
2	195 SE Victoria Glen
3	223 SE Victoria Glen
4	251 SE Victoria Glen
5	281 SE Victoria Glen
6	311 SE Victoria Glen
7	329 SE Victoria Glen
8	328 SE Victoria Glen
9	306 SE Victoria Glen
10	274 SE Victoria Glen
11	244 SE Victoria Glen
12	214 SE Victoria Glen
13	182 SE Victoria Glen
14	152 SE Victoria Glen
15	122 SE Victoria Glen

Lot #:	Address Assigned:
16	123 SE Gregory Glen
17	153 SE Gregory Glen
18	183 SE Gregory Glen
19	215 SE Gregory Glen
20	245 SE Gregory Glen
21	275 SE Gregory Glen
22	309 SE Gregory Glen
23	329 SE Gregory Glen
24	330 SE Gregory Glen
25	308 SE Gregory Glen
26	276 SE Gregory Glen
27	246 SE Gregory Glen
28	216 SE Gregory Glen
29	184 SE Gregory Glen
30	154 SE Gregory Glen
31	3239 SE Country Club Rd 124 SE Gregory Glen



1500/1974 - 469.74  
 1200/1645 - 391.64

Rec. 15.00  
Dec. 1, 435.00

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

Inst:2004008036 Date:04/08/2004 Time:12:28

Doc Stamp-Deed : 1435.00

RETURN TO:

Shirley DC, P. DeWitt Cason, Columbia County B:1012 P:49

TERRY McDAVID  
POST OFFICE BOX 1328  
LAKE CITY, FL 32056-1328

File No. 04-119

Property Appraiser's  
Parcel Identification No.  
15-4S-17-08359-016

#### WARRANTY DEED

THIS INDENTURE, made this 8th day of April 2004, BETWEEN ROLAND L. TARDIF and his wife, LOUISE TARDIF, whose post office address is 4078 SE Country Club Road, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantor\*, and CORNERSTONE DEVELOPMENT GROUP, LLC, a Florida Limited Liability Company, whose post office address is 180 NW Amenity Court, Lake City, Florida 32025, of the County of Columbia, State of Florida, grantee\*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's successors and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

#### PARCEL NO. 1:

#### TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 15: Begin at the Southeast corner of the Northwest 1/4 of Section 15, Township 4 South, Range 17 East, Columbia County, Florida, and run N 1°11'01"W, along the East line of said Northwest 1/4 a distance of 679.28 feet to the POINT OF BEGINNING; thence S 88°41'16"W, 1296.02 feet to the East right-of-way line of State Road No. S-133; thence N 1°14'10"W, along said West right-of-way line 336.70 feet; thence N 88°41'16"E, 1296.33 feet to said East line of the Northwest 1/4, Section 15; thence S 1°11'01"E, along said East line 336.70 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.

#### PARCEL NO. 2:

#### TOWNSHIP 4 SOUTH - RANGE 17 EAST

SECTION 15: Commence at the Southeast corner of the Northwest 1/4 of Section 15, Township 4 South, Range 17 East, Columbia County, Florida, and run N 01°11'01"W, along the East line of said Northwest 1/4 a distance of 343.13 feet to the POINT OF BEGINNING; thence S 88°41'16"W, 1295.71 feet to a point on the East right-of-way line of State Road No. S-133; thence N 01°14'10"W, along said


Easterly right-of-way line 336.15 feet; thence N 88°41'16"E, 1296.02 feet to a point on the East line of said Northwest 1/4 of Section 15; thence S 01°11'01"E, along said East line 336.15 feet to the POINT OF BEGINNING. COLUMBIA COUNTY, FLORIDA.


SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year, & Restrictions shown on Schedule "A" attached hereto.  
and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

\*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered  
in our presence:

  
(First Witness)  
Terry McDavid  
Printed Name


  
(Second Witness)  
Myrtle Ann McElroy  
Printed Name

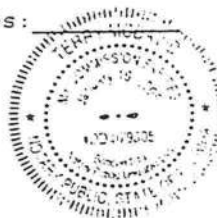
 (SEAL)  
Roland L. Tardif

 (SEAL)  
Louise Tardif

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 8th day of April 2004, by ROLAND L. TARDIF and his wife, LOUISE TARDIF, who are personally known to me and who did not take an oath.

  
Notary Public  
My Commission Expires:



SCHEDULE "A" ATTACHED TO WARRANTY DEED  
DATED APRIL 8, 2004 FROM  
ROLAND L. TARDIF & his wife, LOUISE TARDIF  
TO  
CORNERSTONE DEVELOPMENT GROUP, LLC

For the period of time ending twenty (20) years from this date, the property described herein shall be subject to the following restrictions:

1. No mobile homes may be placed on the property.
2. Any home built on the property shall be a single family residence having not less than 1,100 square feet of heated living area.

Inst:2004008036 Date:04/08/2004 Time:12:28

Doc Stamp-Deed : 1435.00

Kilg DC, P. Dewitt Cason, Columbia County B:1012 P:51

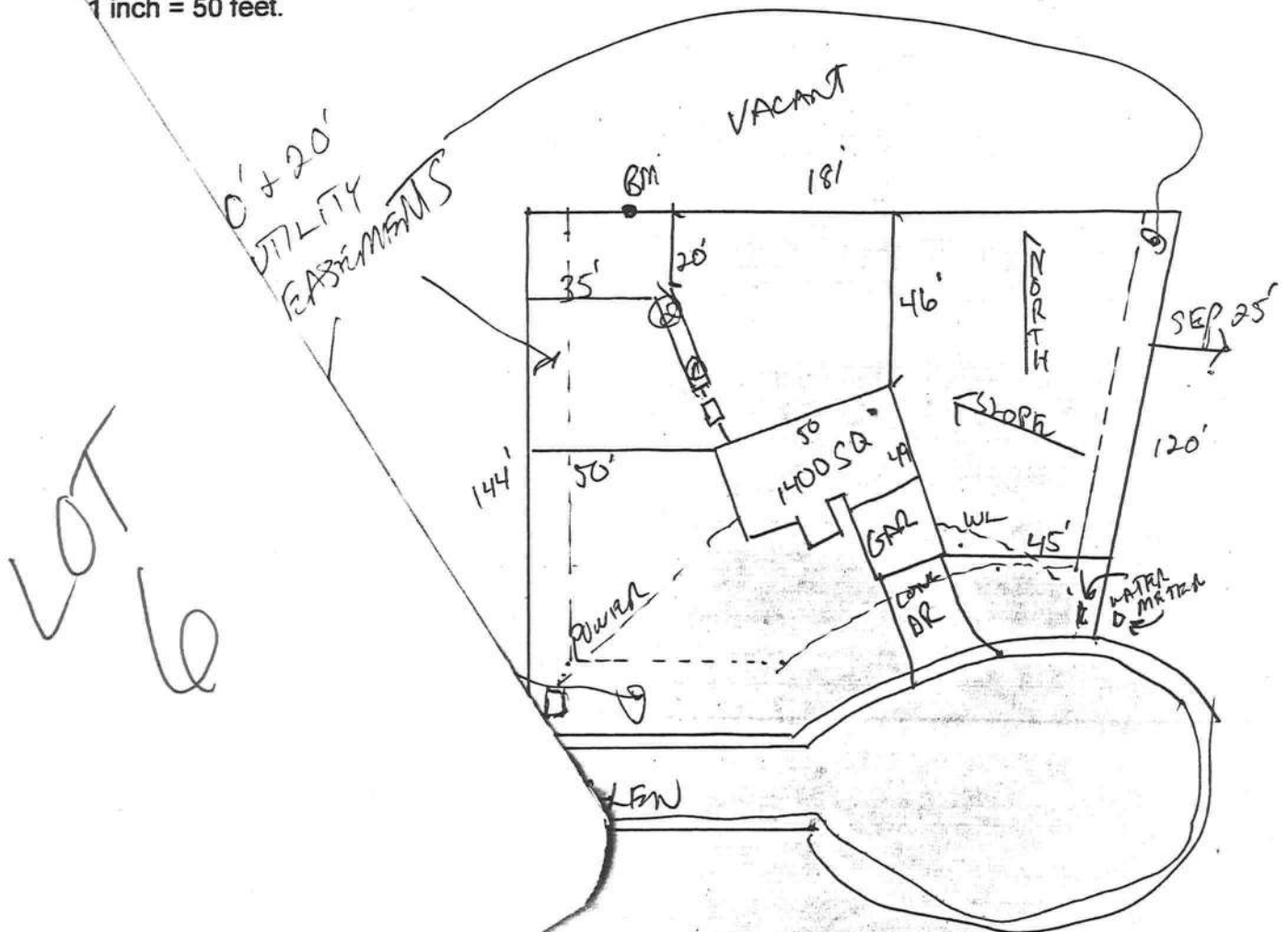


STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 05-09331

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

1 inch = 50 feet.



Submitted by: Rock D F  
Approved ☒ Not Approved ☐  
By Mn a 2n Date 9-13-05  
Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT



**Columbia County Building Department  
Culvert Permit**

**Culvert Permit No.  
000000822**

DATE 09/22/2005 PARCEL ID # 15-4S-17-08359-106  
APPLICANT SUSAN FAIR PHONE 752-5218  
ADDRESS 180 NW AMENITY COURT LAKE CITY FL 32055  
OWNER CORNERSTONE DEVELOPER PHONE 752-5218  
ADDRESS 311 SE VICTORIA GLEN LAKE CITY FL 32025  
CONTRACTOR BRYAN ZECHER PHONE 752-8653  
LOCATION OF PROPERTY BAYA, TR ON OLD COUNTRY CLUB RD, TL ON VICTORIA GLEN, 6TH LOT ON  
LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COUNTRY SIDE ESTATES 6

SIGNATURE *Susan Fair*

**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**



# COLUMBIA COUNTY OFFICE OCCUPANCY

## COLUMBIA COUNTY, FLORIDA

### Department of Building and Zoning Inspection

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

Parcel Number 15-4S-17-08359-106

Building permit No. 000023640

Use Classification SFD, UTILITY

Fire: 53.28

Permit Holder BRYAN ZECHER

Waste: 110.25

Owner of Building CORNERSTONE DEVELOPERS

Total: 163.53

Location: 311 SE VICTORIA GLEN (COUNTRY SIDE EST. L-6)

Date: 01/13/2006



Building Inspector

POST IN A CONSPICUOUS PLACE  
(Business Places Only)