DATE 06/16/2005

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000023278

APPLICANT MIKE MILLIGAN PHONE 755.2411

ADDRESS POB 3535 LAKE CITY FL 32056

OWNER MARK HADDOX PHONE 755.2411

ADDRESS 372 SUNDAY GLEN LAKE CITY FL 32055

CONTRACTOR WILLIAM G. WOOD PHONE 752.2411

LOCATION OF PROPERTY 47-S TO KING RD,TURN R AND IT TURNS INTO BISHOP RD, GO TO SUNDAY GLEN,TR, 150 YDS ON L.

TYPE DEVELOPMENT SFD & UTILITY ESTIMATED COST OF CONSTRUCTION 130300.00

HEATED FLOOR AREA 2606.00 TOTAL AREA 3778.00 HEIGHT 23.80 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

NO. EX.D.U. 0 FLOOD ZONE XPSP DEVELOPMENT PERMIT NO.

PARCEL ID 34-4S-16-03271-003 SUBDIVISION

LOT BLOCK PHASE UNIT TOTAL ACRES 1.012

000000699 | N | CBC058182 | Applicant/Owner/Contractor

Culvert Permit No. | Culvert Waiver | Contractor's License Number

18"X32'MITERED | 05-0549-N | BLK | | N

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

COMMENTS: PREVIOUS OWNER CONFIRMS NO STANDING WATER AT LOCATION OF HOUSE. PER ENGINEER 1ST. FLOOR ELVATION TO BE @ 66.1 FEET. ELEVATION LETTE REQUIRED BEFORE SLAB. Check # or Cash 101

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power date/app. by | Foundation date/app. by | Monolithic date/app. by

Under slab rough-in plumbing date/app. by | Slab date/app. by | Sheathing/Nailing date/app. by

Framing date/app. by | Rough-in plumbing above slab and below wood floor date/app. by

Electrical rough-in date/app. by | Heat & Air Duct date/app. by | Peri. beam (Lintel) date/app. by

Permanent power date/app. by | C.O. Final date/app. by | Culvert date/app. by

M/H tie downs, blocking, electricity and plumbing date/app. by | Pool date/app. by

Reconnection date/app. by | Pump pole date/app. by | Utility Pole date/app. by

M/H Pole date/app. by | Travel Trailer date/app. by | Re-roof date/app. by

BUILDING PERMIT FEE $ 655.00 CERTIFICATION FEE $ 18.89 SURCHARGE FEE $ 18.89

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

FLOOD ZONE DEVELOPMENT FEE $ CULVERT FEE $ 25.00 **TOTAL FEE** 767.78

INSPECTORS OFFICE CLERKS OFFICE CH

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.

~~Accepted~~ CK# 101 Left message cell

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0505-70 Date Received 5/19/05 By JW Permit # 699-23278

Application Approved by - Zoning Official BLK Date 10.06.05 Plans Examiner OK JTH Date 5-31-05

Flood Zone X Per Site Plan Development Permit N/A Zoning A-3 Land Use Plan Map Category A-3

Comments ~~EH Health Dept Site Plan~~ Previous Owner Confirms no standing water at location of House. Per Engineer 1st Floor Elevation to be at 66.1 Feet Elevation letter required. before SLAB.

Applicants Name Michael MilligAN Phone 386 755-2411

Address P.O. 3535

Owners Name MARK Haddox Phone 386 758-9719

911 Address 372 SW Sunday Glenn LAKE City Fl. ~~32050~~ 32055

Contractors Name Woodman PARK Phone 386 755-2411

Address P.O 3535 LAKE City Fl. 32055

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address MARK Disosway, P.O. 868 LC. Fl. 32056

Mortgage Lenders Name & Address N/A

Circle the correct power company – FL Power & Light – Clay Elec. (circled) – Suwannee Valley Elec. – Progressive Energy

Property ID Number RD3271-003 (34-4S-16) Estimated Cost of Construction 200,000

Subdivision Name ______ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions 47-S King Rd (west) turns into Bishop Rd. to Sunday gleen, Rt. 150 yds. on left.

Type of Construction New SFD Number of Existing Dwellings on Property 0

Total Acreage 10.120 Lot Size ______ Do you need a - Culvert Permit (circled) or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 400 Side 200 Side 200 Rear 400

Total Building Height 23' 8" Number of Stories 1 Heated Floor Area 2743 Roof Pitch ______

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 COMMENCMENT 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.

Michael Milligan (signature)
Owner Builder or Agent (Including Contractor)

X (signature)
Contractor Signature
Contractors License Number CBC058182
Competency Card Number ______
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 17 day of May 2005.

Personally known ✓ or Produced Identification ______

Brenda Terry (signature)
Notary Signature

Brenda Terry
My Commission DD293888
Expires February 24, 2008

FORM 600A-2001

EnergyGauge® 3.4

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**HADDOX BISHOP ROAD 2**	Builder:	**WOODMAN PARK BUILDER**
Address:	**BISHOP ROAD**	Permitting Office:	**COLUMBIA COUNTY**
City, State:	,	Permit Number:	23278
Owner:	**HADDOX**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1.	New construction or existing		New	__
2.	Single family or multi-family		Single family	__
3.	Number of units, if multi-family		1	__
4.	Number of Bedrooms		4	__
5.	Is this a worst case?		No	__
6.	Conditioned floor area (ft²)		2606 ft²	__
7.	Glass area & type	Single Pane	Double Pane	
a.	Clear glass, default U-factor	147.0 ft²	134.5 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, 204.0(p) ft	__
b.	N/A			__
c.	N/A			__
9.	Wall types			
a.	Frame, Wood, Exterior		R=17.5, 1491.5 ft²	__
b.	Frame, Wood, Adjacent		R=17.5, 180.0 ft²	__
c.	N/A			__
d.	N/A			__
e.	N/A			__
10.	Ceiling types			__
a.	Under Attic		R=30.0, 2606.1 ft²	
b.	N/A			__
c.	N/A			__
11.	Ducts			__
a.	Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 66.0 ft	
b.	N/A			__
				__

12.	Cooling systems		
a.	Central Unit	Cap: 60.0 kBtu/hr	__
		SEER: 12.00	__
b.	N/A		__
			__
c.	N/A		__
			__
13.	Heating systems		
a.	PTHP	Cap: 60.0 kBtu/hr	__
		COP: 3.40	__
b.	N/A		__
			__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons	__
		EF: 0.90	__
b.	N/A		__
			__
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		__

Glass/Floor Area: 0.11

Total as-built points: 28643

Total base points: 37978

PASS

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

PREPARED BY: Larry Resmondo A/C

DATE: May 26, 2005

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

OWNER/AGENT: _____

DATE: 5/27/05

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: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2606.0	20.04	9400.4	Double, Clear	S	1.5	6.0	87.5	35.87	0.86	2687.0	
				Single, Clear	S	9.0	8.0	105.0	40.81	0.50	2151.1	
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9	
				Single, Clear	N	6.0	8.0	42.0	21.73	0.76	690.5	
				Double, Clear	N	1.5	5.0	32.0	19.20	0.92	562.5	
				As-Built Total:				**281.5**			**6667.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior			17.5	1491.5	1.05		1566.1	
Exterior	1491.5	1.70	2535.6	Frame, Wood, Adjacent			17.5	180.0	0.45		81.0	
Base Total:	**1671.5**		**2661.6**	**As-Built Total:**				**1671.5**			**1647.1**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Wood				63.0	6.10		384.3	
Exterior	63.0	6.10	384.3									
Base Total:	**63.0**		**384.3**	**As-Built Total:**				**63.0**			**384.3**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2606.1	1.73	4508.6	Under Attic			30.0	2606.1	1.73 X 1.00		4508.6	
Base Total:	**2606.1**		**4508.6**	**As-Built Total:**				**2606.1**			**4508.6**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	204.0(p)	-37.0	-7548.0	Slab-On-Grade Edge Insulation			0.0	204.0(p	-41.20		-8404.8	
Raised	0.0	0.00	0.0									
Base Total:			**-7548.0**	**As-Built Total:**				**204.0**			**-8404.8**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	2606.0	10.21	26607.3					2606.0	10.21		26607.3	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT						
Summer Base Points:			**36014.0**	**Summer As-Built Points:**						**31409.4**
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
36014.0	**0.4266**		**15363.6**	31409.4 **31409.4**	1.000 **1.00**	(1.090 x 1.147 x 0.91) **1.138**	0.284 **0.284**	1.000 **1.000**		10163.6 **10163.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2606.0	12.74	5976.1	Double, Clear	S	1.5	6.0	87.5	13.30	1.12	1300.3	
				Single, Clear	S	9.0	8.0	105.0	20.24	2.94	6255.3	
				Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9	
				Single, Clear	N	6.0	8.0	42.0	33.22	1.01	1415.8	
				Double, Clear	N	1.5	5.0	32.0	24.58	1.00	789.4	
				As-Built Total:				**281.5**			**10052.8**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior			17.5	1491.5	2.50	3728.8		
Exterior	1491.5	3.70	5518.6	Frame, Wood, Adjacent			17.5	180.0	2.47	445.5		
Base Total:	**1671.5**		**6166.6**	**As-Built Total:**				**1671.5**		**4174.3**		
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =	Points		
Adjacent	0.0	0.00	0.0	Exterior Wood				63.0	12.30	774.9		
Exterior	63.0	12.30	774.9									
Base Total:	**63.0**		**774.9**	**As-Built Total:**				**63.0**		**774.9**		
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X WCM =	Points		
Under Attic	2606.1	2.05	5342.5	Under Attic			30.0	2606.1	2.05 X 1.00	5342.5		
Base Total:	**2606.1**		**5342.5**	**As-Built Total:**				**2606.1**		**5342.5**		
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Slab	204.0(p)	8.9	1815.6	Slab-On-Grade Edge Insulation			0.0	204.0(p	18.80	3835.2		
Raised	0.0	0.00	0.0									
Base Total:			**1815.6**	**As-Built Total:**				**204.0**		**3835.2**		
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =	Points		
	2606.0	-0.59	-1537.5					2606.0	-0.59	-1537.5		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE			AS-BUILT						
Winter Base Points:		**18538.1**	**Winter As-Built Points:**						**22642.1**
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	
18538.1	**0.6274**	**11630.8**	22642.1 **22642.1**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.294 **0.294**	1.000 **1.000**	7739.5 **7739.5**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
15364	**11631**	**10984**	**37978**	**10164**	**7739**	**10740**	**28643**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.5

The higher the score, the more efficient the home.

HADDOX, BISHOP ROAD, , ,

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2606 ft²	
7.	Glass area & type	Single Pane / Double Pane	
a.	Clear glass, default U-factor	147.0 ft² / 134.5 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, 204.0(p) ft	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=17.5, 1491.5 ft²	
b.	Frame, Wood, Adjacent	R=17.5, 180.0 ft²	
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2606.1 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 66.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 60.0 kBtu/hr SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	PTHP	Cap: 60.0 kBtu/hr COP: 3.40	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.90	
b.	N/A		
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

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™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

EnergyGauge® (Version: FLRCPB v3.4)

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

December 20, 2004

Mark Maddox
245 N.W. Wildflower Lane
Lake City, Florida 32055

Reference: Proposed Residence
S. W. Sunday Glen
Property Identification Number: 34-4S-16-03271-003
Columbia County, Florida
Cal-Tech Project No. 04-578

Dear Mr. Maddox,

Cal-Tech Testing, Inc. has completed an investigation and evaluation of a proposed home site at S. W. Sunday Glen in Columbia County, Florida. The purposes of our work were to evaluate the potential for flooding of a home to be constructed at the site and to provide recommendations for selecting a finished floor elevation.

Based upon the F.E.M.A flood map for the area, a flood zone is located to the west of the proposed home site a distance of less than 500 feet. This "Zone A" flood zone does not have an established flood elevation; however, based upon the U.S.G.S. quadrangle map of the area and the F.E.M.A. flood map, we estimate the flood elevation within the delineated flood zone to be approximately 62.0 feet; however, for this evaluation an estimate of 63.0 feet will be used. Portions of both maps have been used to construct the attached drawing. Elevation contours, the "zone A" flood zone, and the property lines are indicated on the drawing.

A benchmark is identified on the quadrangle map, and this benchmark was located in the field. This "U.S. Coast and Geodetic Survey" marker is identified as "BF99" and has a reported elevation of 84.85 feet. Using this elevation a temporary benchmark of elevation 68.81 feet was set at the site. Also, the elevation of the ground surface at the center of the proposed home site was determined to be 64.6 feet. This elevation is only about 1.6 feet above the estimated flood elevation of 63.0 feet. The elevation of the soil roadway adjacent the proposed building site was determined to be approximately 68.2 feet or about 3.6 feet above the ground surface at the home site.

Based upon our findings, we believe it is safe to build a home at the site; however, we recommend the site be raised approximately 0.5 feet to provide at least 2.0 feet of separation between the finished floor elevation and the estimated flood elevation of 63.0 feet. Further, we recommend the site be raised an additional 1.0 feet such that the finished floor is at least 1.0 feet above the adjacent ground surface at the

perimeter of the residence. Thus, we recommend the finished floor elevation be no less than 66.1 feet in elevation.

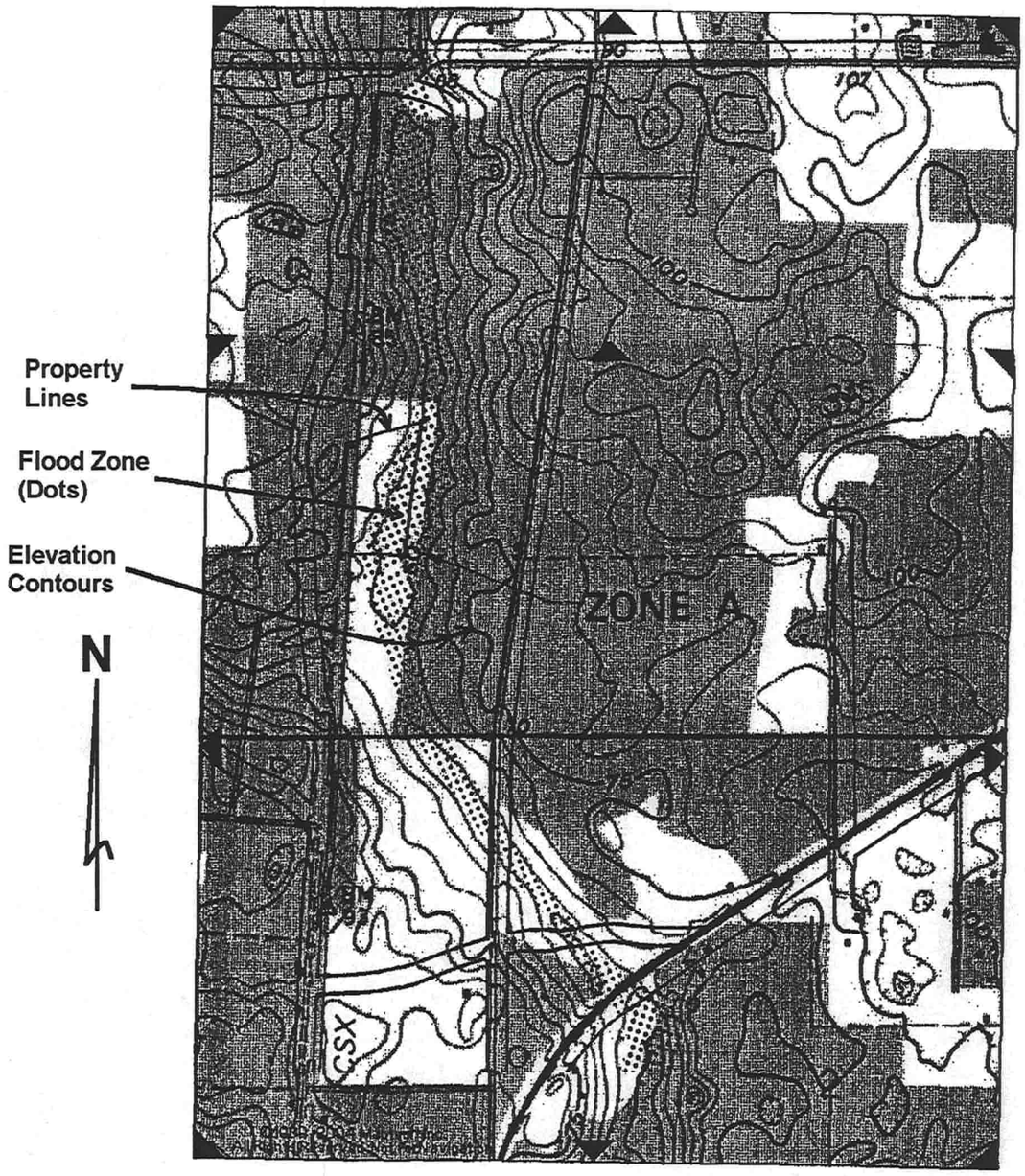
Providing this finished floor elevation should provide sufficient safety against flooding, and raising the finished floor elevation to 2.0 feet above the adjacent roadway should not be necessary.

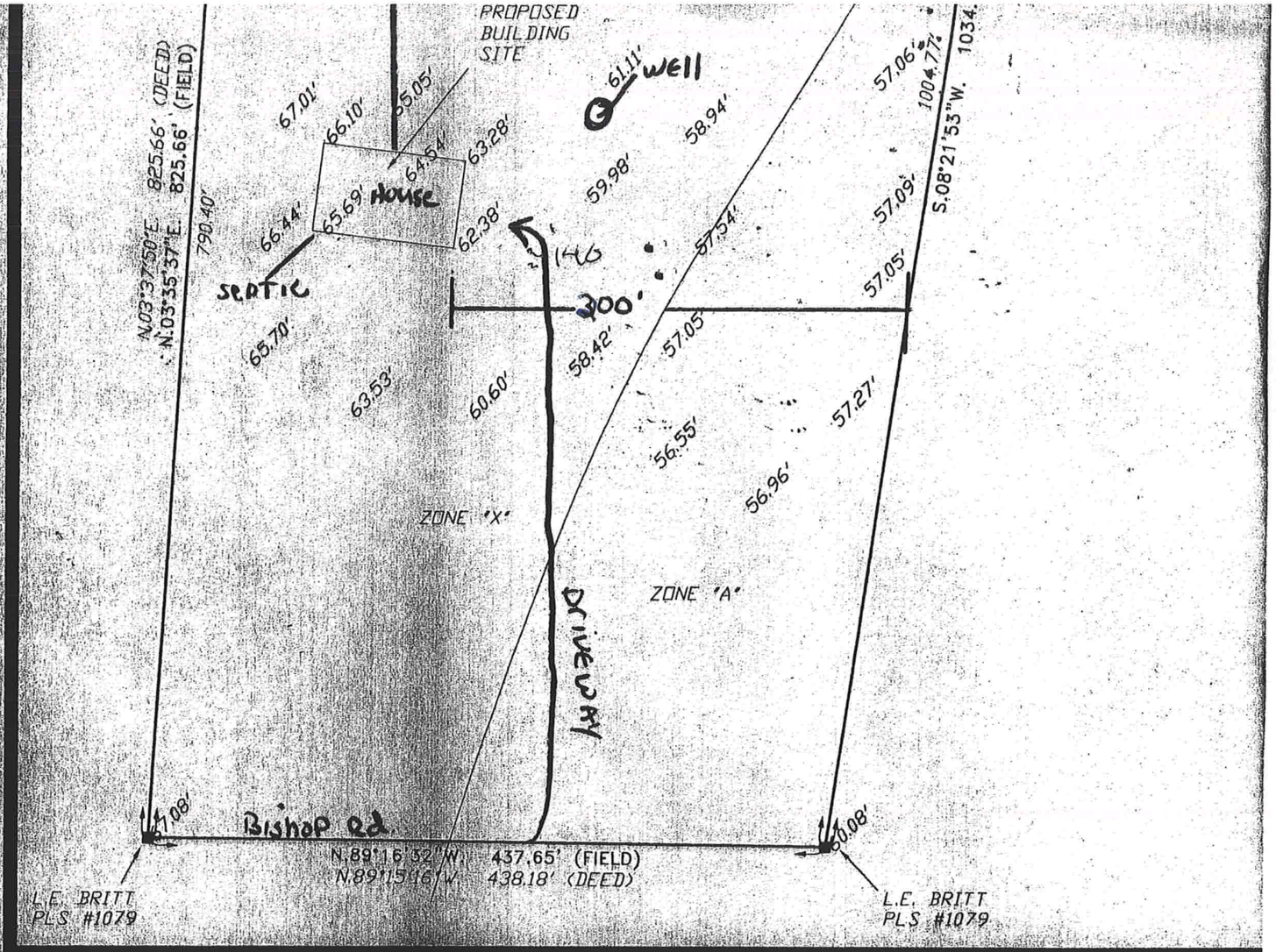
We appreciate the opportunity to be of service on this project and look forward to a continued association. Please do not hesitate to contact us should you have questions concerning this report or if we may be of further assistance.

Respectfully submitted,
Cal-Tech Testing, Inc.

Linda Creamer
President / CEO

John C. Dorman, Jr., Ph.D., P.E.
Geotechnical Engineer
12/20/04
52612


Property Lines
Flood Zone (Dots)
Elevation Contours
N
ZONE A
CSX



CERTIFIED TO:

MARK HADDOX

5/17/05

FIELD BOOK 273 PAGE(S) 27

I HEREBY
TECHNICAL
IN CHAPTE

FIELD SURVE

NOTE: UNLESS
MAPPER THIS

5707.dwg Wed Jan 19 15:37:41 2005

TERRY McDAVID 05-45
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

RETURN TO:

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

Property Appraiser's
Identification Number R03271-003

Inst:2005001618 Date:01/24/2005 Time:15:53
Doc Stamp-Deed : 502.60
MK DC,P.DeWitt Cason,Columbia County B:1036 P:422

WARRANTY DEED

This Warranty Deed, made this 20th day of January, 2005, BETWEEN RANDALL KING and SIBYL KING, Husband and Wife whose post office address is 1533 SW King Street, Lake City, FL 32024, of the County of Columbia, State of Florida, grantor*, and MARK E. HADDOX and BOBBIE E. HADDOX, Husband and Wife whose post office address is 245 NW Wildflower Lane, Lake City, FL 32055, of the County of Columbia, State of Florida, grantee*.

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

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 heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF.

N.B.: Grantor reserves an ingress, egress and utility easement over and across the Northerly 30 feet of the subject property.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

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

And subject to taxes for the current year and later years and all valid easements and restrictions of record, if any, which are not hereby reimposed; and also subject to any claim, right, title or interest arising from any recorded instrument reserving, conveying, leasing, or otherwise alienating any interest in the oil, gas and other minerals. And grantor does warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever, subject only to the exceptions set forth herein.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Inst:2005001618 Date:01/24/2005 Time:15:53
Doc Stamp-Deed : 502.60
DC,P.DeWitt Cason,Columbia County B:1036 P:423

Signed, sealed and delivered
in our presence:

(Signature of First Witness)
Terry McDavid
(Typed Name of First Witness)

(Signature of Second Witness)
Crystal L. Brunner
(Typed Name of Second Witness)

Randall R. King (SEAL)
Grantor
RANDALL KING
Printed Name

Sibyl R. King (SEAL)
Grantor
SIBYL KING
Printed Name

STATE OF Florida
COUNTY OF Columbia

The foregoing instrument was acknowledged before me this 20th day of January, 2005, by RANDALL KING and SIBYL KING, Husband and Wife who are personally known to me and who did not take an oath.

My Commission Expires:

Notary Public
Printed, typed, or stamped name:

TERRY MCDAVID
MY COMMISSION EXPIRES
January 16, 2006
#DD 079305
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC STATE OF FLORIDA

EXHIBIT "A"

TOWNSHIP 4 SOUTH - RANGE 16 EAST

SECTION 34: A part of the N 1/2 of the SE 1/4 of Section 34, Township 4 South, Range 16 East, more particularly described as follows: Commence at the Northeast corner of the said SE 1/4 and run S 8°22'07" W, 237.20 feet; thence S 89°52'57" W, 880.0 feet for a Point of Beginning. Thence S 8°21'53" W, 1034.74 feet; thence N 89°15'16" W 438.18 feet; thence N 3°37'50" E, 825.66 feet; thence N 70°06'49" E, 570.40 feet to the Point of Beginning. Columbia County, Florida.

TOGETHER WITH the right of ingress and egress over and across a 60 foot easement whose centerline is described as follows:

Commence at the Northeast corner of the said SE 1/4 and run S 8°21'53" W along the West Right-of-Way line of Bishop Road, 237.20 feet to the centerline of said 60 foot easement for a Point of Beginning. Thence run S 89°52'57" W along said easement centerline, 880.0 feet; thence S 70°06'49"W, 1204.12 feet; thence S 89°50'21"W 30 feet to the Point of Termination of said centerline of said 60 foot easement.

Inst:2005001618 Date:01/24/2005 Time:15:53
Doc Stamp-Deed : 502.60
DC,P.DeWitt Cason,Columbia County B:1036 P:424

Columbia County Property Appraiser

DB Last Updated: 4/4/2005

2005 Proposed Values

Parcel: 34-4S-16-03271-003

Tax Record | Property Card | Interactive GIS Map | Print

<< Prev Search Result: 4 of 4

Owner & Property Info

Owner's Name	HADDOX MARK E & BOBBIE E
Site Address	
Mailing Address	245 NW WILD FLOWER LANE LAKE CITY, FL 32055
Brief Legal	COMM NE COR OF SE1/4, RUN S 8 DEG W 237.20 FT, W 880 FT FOR POB, RUN S 8 DEG W 1034.74 FT,

Use Desc. (code)	PASTURELAN (006200)
Neighborhood	34416.00
Tax District	3
UD Codes	MKTA01
Market Area	01
Total Land Area	10.120 ACRES

Property & Assessment Values

Mkt Land Value	cnt: (0)	$0.00
Ag Land Value	cnt: (1)	$1,669.00
Building Value	cnt: (0)	$0.00
XFOB Value	cnt: (0)	$0.00
Total Appraised Value		$1,669.00

Just Value	$41,289.00
Class Value	$1,669.00
Assessed Value	$1,669.00
Exempt Value	$0.00
Total Taxable Value	$1,669.00

Sales History

Sale Date	Book/Page	Inst. Type	Sale Vlmp	Sale Qual	Sale RCode	Sale Price
1/20/2005	1036/422	WD	V	Q		$71,800.00
8/24/2000	911/671	WD	V	Q		$42,000.00

Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

Extra Features & Out Buildings

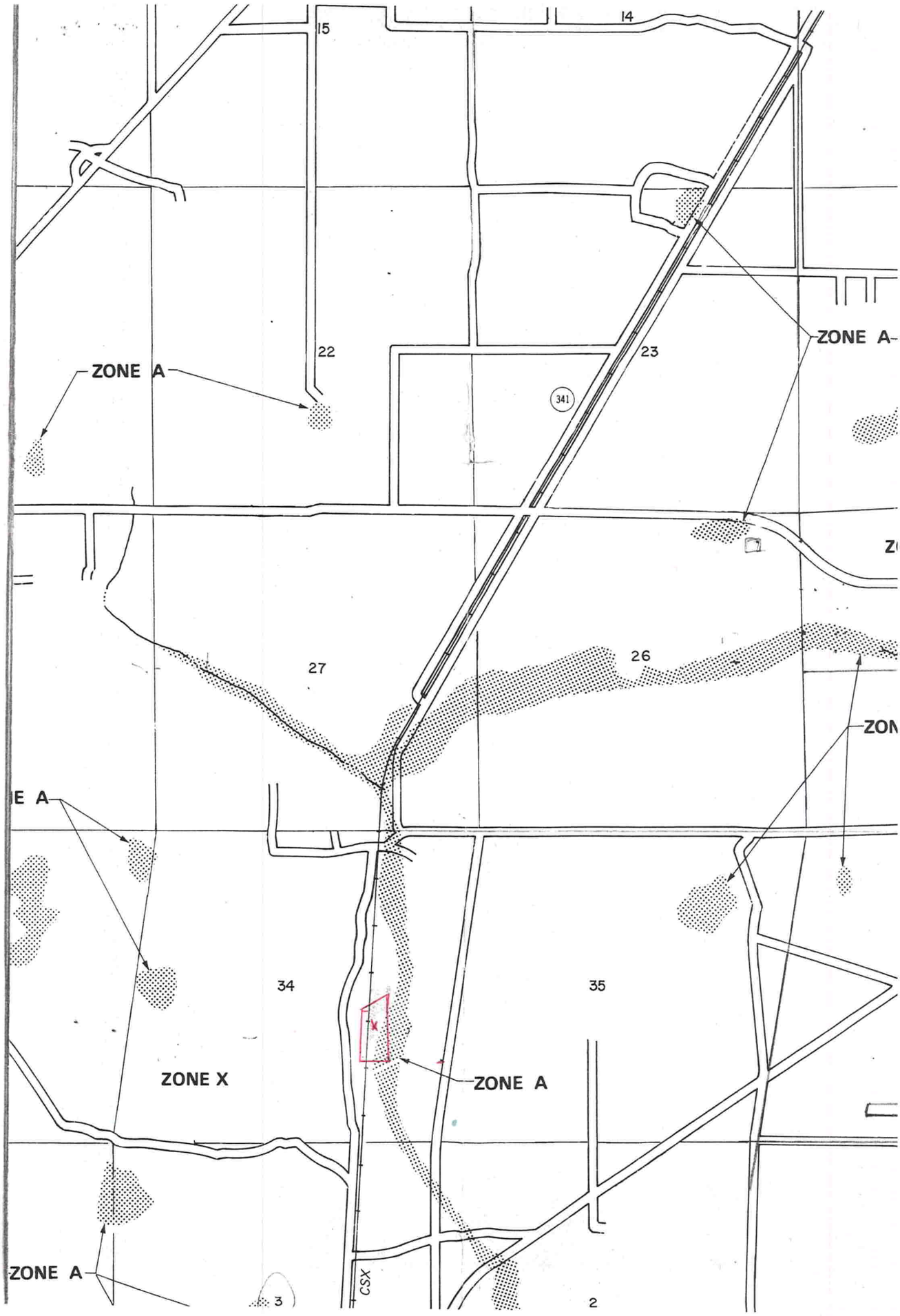
Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
006200	PASTURE 3 (AG)	10.120 AC	1.00/1.00/1.00/1.00	$165.00	$1,669.00
009910	MKT.VAL.AG (MKT)	10.120 AC	1.00/1.00/1.00/1.00	$0.00	$41,289.00

Columbia County Property Appraiser DB Last Updated: 4/4/2005

<< Prev 4 of 4



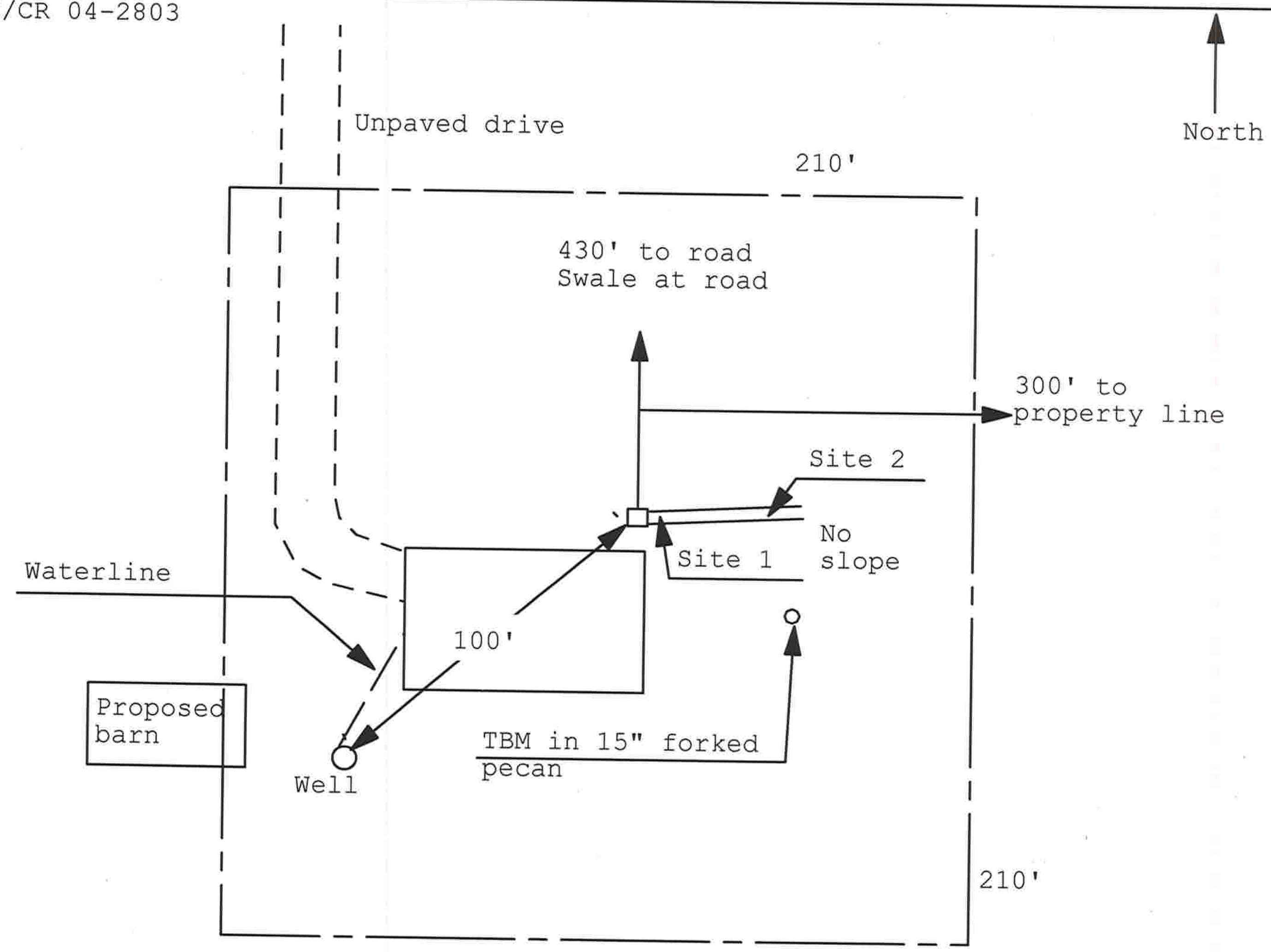
0505-70

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

Permit Application Number: 05-0549N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

HADDOX/CR 04-2803



1 inch = 50 feet

Site Plan Submitted By Paul L [signature] **Date** 5/5/05

Plan Approved ✓ **Not Approved** ____ **Date** 5-23-05

By [signature] ____ Columbia **CPHU**

Notes: ____

MEMORANDUM

Date: 3 June 2005

To: Dale Williams, County Manager

From: Brian L. Kepner, County Planner BLK

Re: Issuing Building Permit in Flood Prone Areas

I am looking for a clarification concerning issuing building permits in flood prone areas as defined in your memo dated 11 May 2005. I have a few applications that the parcel is partially located within a flood zone as indicated by the FEMA flood insurance rate maps. The site plan submitted with the application shows that the proposed location of the house or mobile home to be out of the flood zone. Am I to still hold up on issuing permits in this type of situation? Does a percentage of the parcel need to be in the flood zone or flood prone and if so what would that percentage be? One application is for a hanger and not the actual dwelling. Please advise.

Brian –
As you are aware, the 2004 Hurricanes proved in many cases that the FEMA maps are not accurate. If we have any knowledge that the lot/parcel flooded beyond the limits indicated on the FEMA maps then you should "hold" the permit. In situations where we don't have any specific additional information I would at least do a brief investigation before issuing the permit. Based on personal knowledge, the hanger is not being placed in an area that flooded although a portion of the lot did.

Dale

FORM 600A-2001 EnergyGauge® 3.4

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**HADDOX BISHOP ROAD 2**	Builder:	**WOODMAN PARK BUILDER**
Address:	**BISHOP ROAD**	Permitting Office:	**COLUMBIA COUNTY**
City, State:	**,**	Permit Number:	23278
Owner:	**HADDOX**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing		New	__
2. Single family or multi-family		Single family	__
3. Number of units, if multi-family		1	__
4. Number of Bedrooms		4	__
5. Is this a worst case?		No	__
6. Conditioned floor area (ft²)		2606 ft²	__
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	147.0 ft²	134.5 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, 204.0(p) ft	__
b. N/A			__
c. N/A			__
9. Wall types			
a. Frame, Wood, Exterior		R=17.5, 1491.5 ft²	__
b. Frame, Wood, Adjacent		R=17.5, 180.0 ft²	__
c. N/A			__
d. N/A			__
e. N/A			__
10. Ceiling types			__
a. Under Attic		R=30.0, 2606.1 ft²	
b. N/A			__
c. N/A			__
11. Ducts			__
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 66.0 ft	
b. N/A			__
			__

12. Cooling systems		
a. Central Unit	Cap: 60.0 kBtu/hr	__
	SEER: 12.00	__
b. N/A		__
		__
c. N/A		__
		__
13. Heating systems		
a. PTHP	Cap: 60.0 kBtu/hr	__
	COP: 3.40	__
b. N/A		__
		__
c. N/A		__
		__
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 gallons	__
	EF: 0.90	__
b. N/A		__
		__
c. Conservation credits		__
(HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits		__
(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.11

Total as-built points: 28643
Total base points: 37978

PASS

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

PREPARED BY: Larry Rasmondo A/C

DATE: May 26, 2005

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

OWNER/AGENT: _____

DATE: 5/27/05

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.

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	2606.0	20.04	9400.4	Double, Clear	S	1.5	6.0	87.5	35.87	0.86	2687.0	
				Single, Clear	S	9.0	8.0	105.0	40.81	0.50	2151.1	
				Double, Clear	E	1.5	6.0	15.0	42.06	0.91	575.9	
				Single, Clear	N	6.0	8.0	42.0	21.73	0.76	690.5	
				Double, Clear	N	1.5	5.0	32.0	19.20	0.92	562.5	
				As-Built Total:				**281.5**			**6667.0**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	180.0	0.70	126.0	Frame, Wood, Exterior			17.5	1491.5	1.05		1566.1	
Exterior	1491.5	1.70	2535.6	Frame, Wood, Adjacent			17.5	180.0	0.45		81.0	
Base Total:	**1671.5**		**2661.6**	**As-Built Total:**				**1671.5**			**1647.1**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Wood				63.0	6.10		384.3	
Exterior	63.0	6.10	384.3									
Base Total:	**63.0**		**384.3**	**As-Built Total:**				**63.0**			**384.3**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2606.1	1.73	4508.6	Under Attic			30.0	2606.1	1.73 X 1.00		4508.6	
Base Total:	**2606.1**		**4508.6**	**As-Built Total:**				**2606.1**			**4508.6**	
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Slab	204.0(p)	-37.0	-7548.0	Slab-On-Grade Edge Insulation			0.0	204.0(p	-41.20		-8404.8	
Raised	0.0	0.00	0.0									
Base Total:			**-7548.0**	**As-Built Total:**				**204.0**			**-8404.8**	
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points	
	2606.0	10.21	26607.3					2606.0	10.21		26607.3	

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT						
Summer Base Points:			**36014.0**	**Summer As-Built Points:**						**31409.4**
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	
36014.0	**0.4266**	**15363.6**		31409.4 **31409.4**	1.000 **1.00**	(1.090 x 1.147 x 0.91) **1.138**	0.284 **0.284**	1.000 **1.000**	10163.6 **10163.6**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	2606.0	12.74	5976.1	Double, Clear	S	1.5	6.0	87.5	13.30	1.12	1300.3	
				Single, Clear	S	9.0	8.0	105.0	20.24	2.94	6255.3	
				Double, Clear	E	1.5	6.0	15.0	18.79	1.04	291.9	
				Single, Clear	N	6.0	8.0	42.0	33.22	1.01	1415.8	
				Double, Clear	N	1.5	5.0	32.0	24.58	1.00	789.4	
				As-Built Total:				**281.5**			**10052.8**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	180.0	3.60	648.0	Frame, Wood, Exterior			17.5	1491.5	2.50		3728.8	
Exterior	1491.5	3.70	5518.6	Frame, Wood, Adjacent			17.5	180.0	2.47		445.5	
Base Total:	**1671.5**		**6166.6**	**As-Built Total:**				**1671.5**			**4174.3**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Exterior Wood				63.0	12.30		774.9	
Exterior	63.0	12.30	774.9									
Base Total:	**63.0**		**774.9**	**As-Built Total:**				**63.0**			**774.9**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2606.1	2.05	5342.5	Under Attic			30.0	2606.1	2.05 X 1.00		5342.5	
Base Total:	**2606.1**		**5342.5**	**As-Built Total:**				**2606.1**			**5342.5**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	204.0(p)	8.9	1815.6	Slab-On-Grade Edge Insulation			0.0	204.0(p	18.80		3835.2	
Raised	0.0	0.00	0.0									
Base Total:			**1815.6**	**As-Built Total:**				**204.0**			**3835.2**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2606.0	-0.59	-1537.5					2606.0	-0.59		-1537.5	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**18538.1**	**Winter As-Built Points:**					**22642.1**
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
18538.1	**0.6274**	**11630.8**	22642.1 **22642.1**	1.000 **1.00**	(1.069 x 1.169 x 0.93) **1.162**	0.294 **0.294**	1.000 **1.000**	7739.5 **7739.5**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

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

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
15364	**11631**	**10984**	**37978**	**10164**	**7739**	**10740**	**28643**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **BISHOP ROAD, , ,** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

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

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

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 87.5

The higher the score, the more efficient the home.

HADDOX, BISHOP ROAD, , ,

1.	New construction or existing	New	__
2.	Single family or multi-family	Single family	__
3.	Number of units, if multi-family	1	__
4.	Number of Bedrooms	4	__
5.	Is this a worst case?	No	__
6.	Conditioned floor area (ft²)	2606 ft²	__
7.	Glass area & type	Single Pane / Double Pane	
a.	Clear glass, default U-factor	147.0 ft² / 134.5 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, 204.0(p) ft	__
b.	N/A		__
c.	N/A		
9.	Wall types		__
a.	Frame, Wood, Exterior	R=17.5, 1491.5 ft²	__
b.	Frame, Wood, Adjacent	R=17.5, 180.0 ft²	__
c.	N/A		
d.	N/A		__
e.	N/A		__
10.	Ceiling types		__
a.	Under Attic	R=30.0, 2606.1 ft²	__
b.	N/A		__
c.	N/A		
11.	Ducts		__
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 66.0 ft	__
b.	N/A		__
			__
			__

12.	Cooling systems		
a.	Central Unit	Cap: 60.0 kBtu/hr SEER: 12.00	__ __
b.	N/A		__
			__
c.	N/A		__
			__
13.	Heating systems		
a.	PTHP	Cap: 60.0 kBtu/hr COP: 3.40	__ __
b.	N/A		__
			__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 40.0 gallons EF: 0.90	__ __
b.	N/A		__
			__
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		__

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™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

EnergyGauge® (Version: FLRCPB v3.4)

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000699

DATE 06/16/2005 PARCEL ID # 34-4S-16-03271-003

APPLICANT MIKE MILLIGAN PHONE 755.2411

ADDRESS POB 3535 LAKE CITY FL 32056

OWNER MARK HADDOX PHONE 758.9719

ADDRESS 372 SUNDAY GLEN LAKE CITY FL 32055

CONTRACTOR WILLIAM G. WOOD PHONE 755.2411

LOCATION OF PROPERTY 47-S TO KING ROAD,TR TURNS INTO BISHOP RD TO SUNDAY GLEN,TR, 150 YARDS ON L.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT

SIGNATURE

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght 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

Form II # 23278

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

July 13, 2005

Mark Maddox
245 N.W. Wildflower Lane
Lake City, Florida 32055

Reference: Proposed Residence
S. W. Sunday Glen
Property Identification Number: 34-4S-16-03271-003
Columbia County, Florida
Cal-Tech Project No. 04-578

Dear Mr. Maddox,

Cal-Tech Testing, Inc. has performed an investigation to determine the elevation of the finished floor of the home currently under construction at S. W. Sunday Glen in Columbia County, Florida. The purposes of our work were to determine if the floor is at or above the recommended elevation of 66.1 feet.

Using a temporary benchmark of elevation 68.81 feet set at the site, the finished floor elevation, based upon the top of the stem wall, was determined to be 66.57 feet. Thus the finished floor is approximately 6 inches above the recommended elevation.

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
7/13/05
52612

"Excellence in Engineering & Geoscience"

23278

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-269-4871

July 11, 2005

Building and Zoning, Columbia County, Florida

Re: Site Evaluation, Mark Haddox Residence, 372 SW Sunday Glen, Lake City, FL 32055, 34-4S-16-03271-003, Columbia County, FL

Dear Building Inspector:

I have checked the finished floor slab height relative to the temporary benchmark at 68.81' established by Cal-Tech Testing Inc. (Cal-Tech letter dated 20Dec2004 to Mark Maddox, attached) for the Mark Haddox Residence, 372 SW Sunday Glen, Lake City, FL 32055, 34-4S-16-03271-003, Columbia County, FL. The proposed finished floor elevation (the top of the stem wall foundation as built and prepped for slab) is higher than the 66.1' elevation established by Cal-Tech to provide safety against flooding.

The owner should be aware that if free drainage is not maintained in the Cannon Creek, or if future development in the area causes increased storm water run off, or if rainfall occurs with greater flooding effect than the design storm, the level of the creek could rise higher than anticipated and nearby Zone A areas could be larger than indicated by FEMA and his house would be more susceptible to flooding. The topo map shows elevation of the lot varies from 115 – 120' and the creek below 110'.

Sincerely,

11JUL05

Mark Disosway, PE

SECTION 1804 FOOTINGS AND FOUNDATIONS; §1804.1.1 Foundations shall be built on undisturbed soil or properly compacted fill material. Foundations shall be constructed of materials described in this chapter.

§1804.1.2 Pile foundations shall be designed and constructed in accordance with §1805.

§1804.1.3 The bottom of foundations shall extend no less than 12 inches (305 mm) below finish grade.

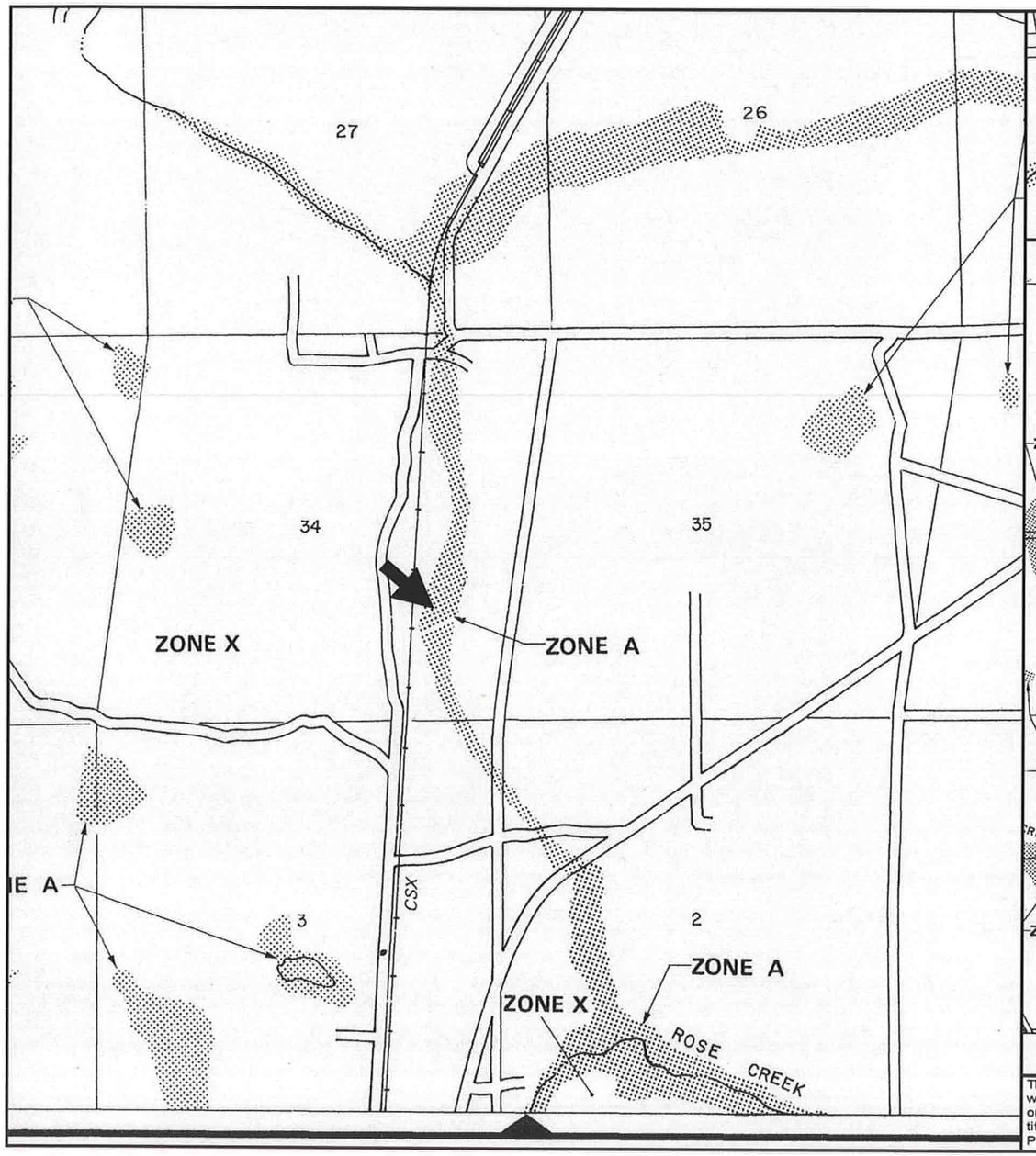
§1804.1.4 Temporary buildings and buildings not exceeding one story in height and 400 sq ft (37 m^2) in area shall be exempt from these requirements.

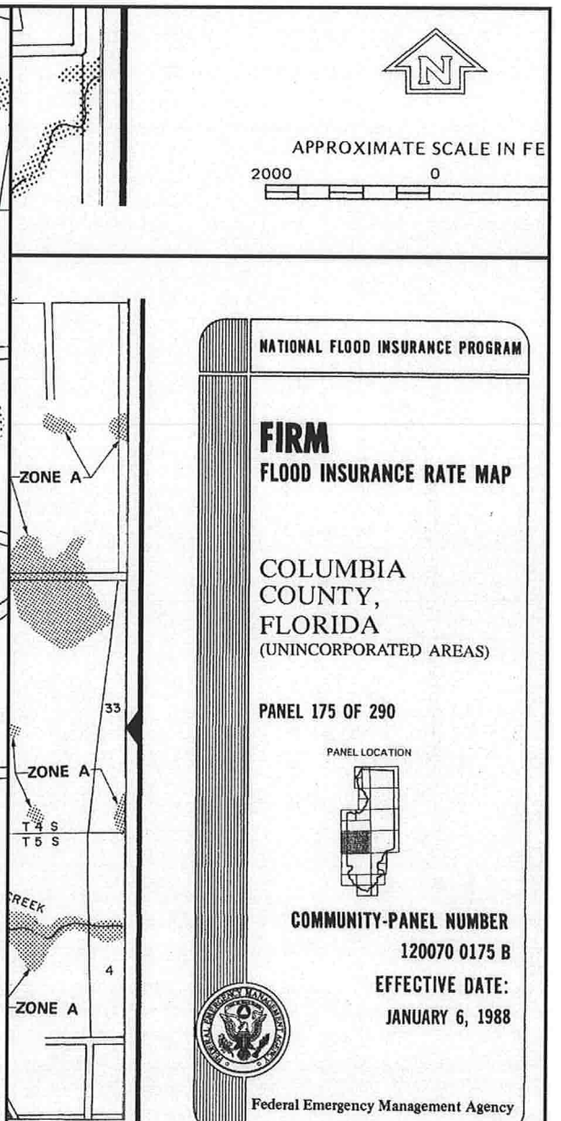
§1804.1.5 Excavations for foundations shall be backfilled with soil which is free of organic material, construction debris and large rocks.

§1804.1.6 Where water impacts the ground from a roof valley, downspout, scupper or other rain water collection or diversion device, provisions shall be made to prevent soil erosion and direct the water away from the foundation.

§1804.1.7 Finish grade shall be sloped away from the foundation for drainage.

§1804.1.8 The area under footings, foundations and concrete slabs on grade shall have all vegetation, stumps, roots and foreign materials removed prior to their construction. Fill material shall be free of vegetation and foreign material.





NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

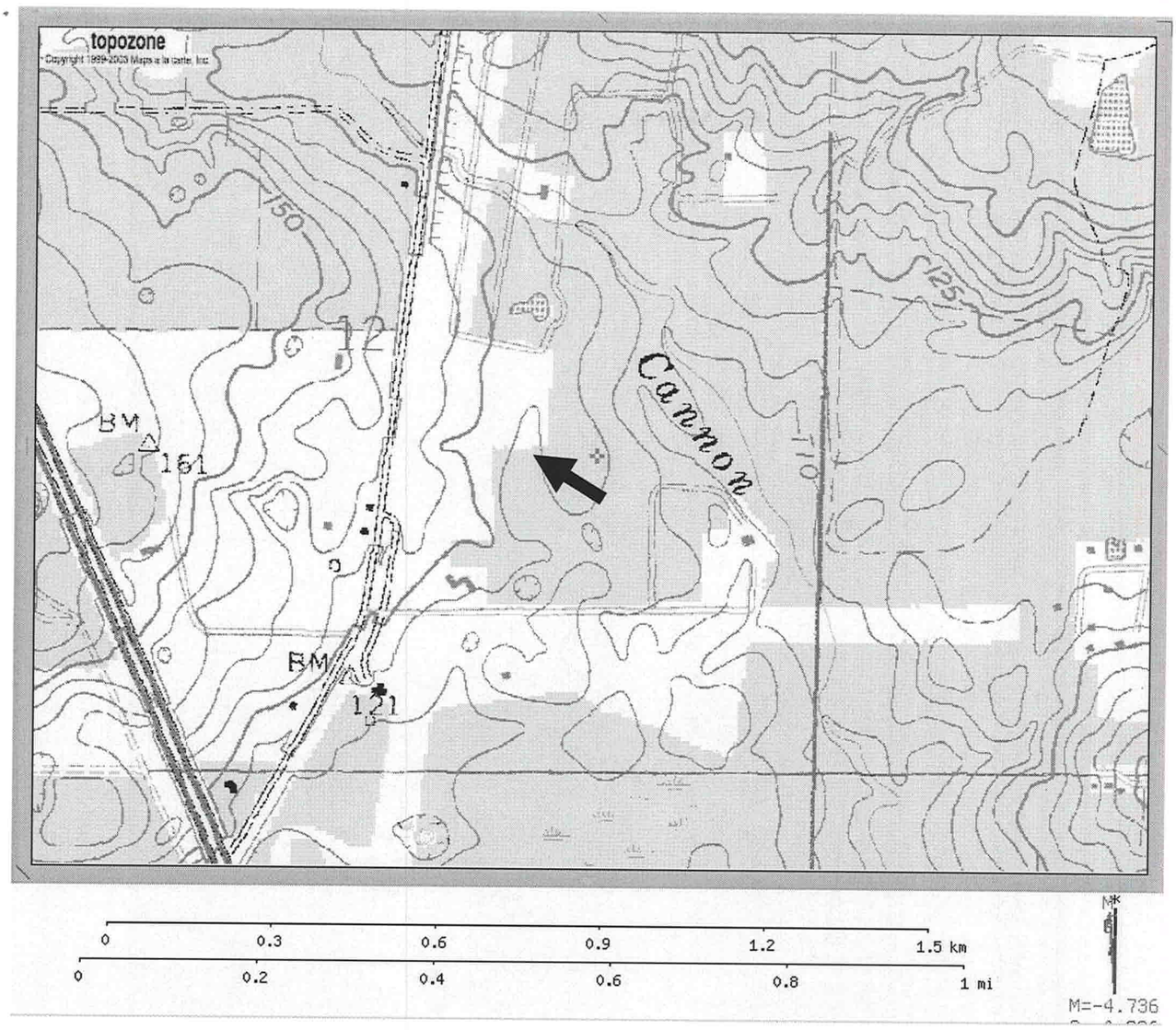
COLUMBIA COUNTY, FLORIDA
(UNINCORPORATED AREAS)

PANEL 175 OF 290

PANEL LOCATION

COMMUNITY-PANEL NUMBER
120070 0175 B
EFFECTIVE DATE:
JANUARY 6, 1988

Federal Emergency Management Agency


topozone
Copyright 1999-2003 Maps a la carte, Inc.
150
125
Canon
110
BM
161
BM
121
0
0.3
0.6
0.9
1.2
1.5 km
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0.2
0.4
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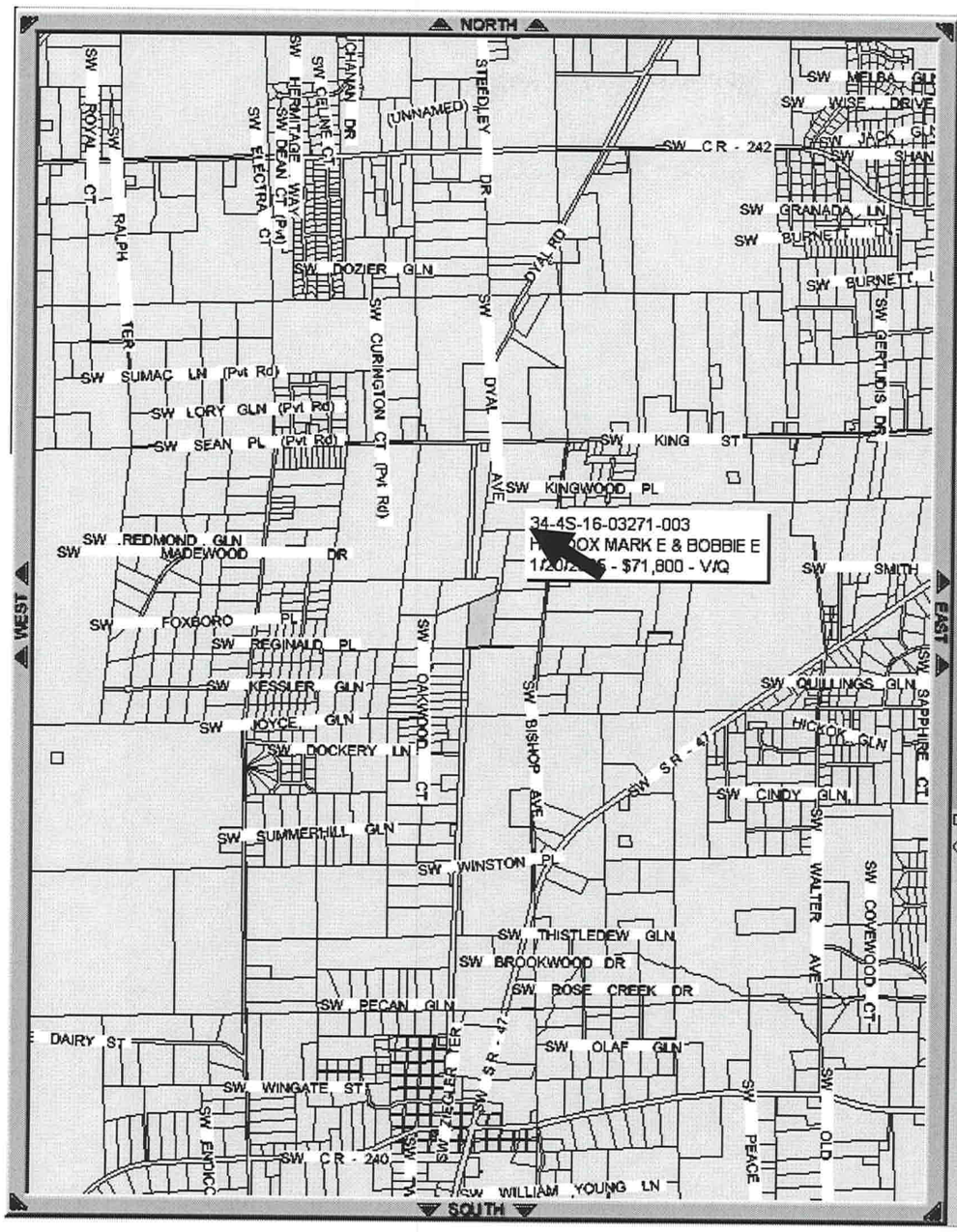
1 mi
M=-4.736



PIN	34-4S-16-03271-003
Use	PASTURELAN (006200)
Yr.Blt	
Desc	COMM NE COR OF SE1/4, RUN S 8 DEG W 237.20 FT, W 880 FT FOR POB, RUN S 8 DEG W 1034.74 FT,

OWNER INFO	
Name	HADDOX MARK E & BOBBIE E
Site	
Mail	245 NW WILD FLOWER LANE LAKE CITY, FL 32055

ASSESSMENT INFO	
LndVal	$0.00
AgVal	$1,669.00
BldVal	$0.00
ApriVal	$1,669.00
JustVal	$41,289.00
Assd	$1,669.00
Exmpt	$0.00
Taxable	$1,669.00

SALES INFO		
1/20/2005	$71,800.00	V / Q
8/24/2000	$42,000.00	V / Q

SEARCH RESULTS

- [x] Highlight Parcel
- [x] Label Parcel
- [x] Auto-Zoom Parcel

1 of 1

DB Last Updated: 6/2/2005

GIS Map Updated: 6/2/2005

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0526
(exp. 10/31/2005)

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. #23278

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Woodmen Park Builders Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 372 Sunday Glen Lake City, FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 12 Inside 24 Type of Fill Rock

Section 4: Treatment Information

Date(s) of Treatment(s) 7-18-05
Brand Name of Product(s) Used Dursban
EPA Registration No. 19713-514
Approximate Final Mix Solution % 0.5%
Approximate Size of Treatment Area: Sq. ft. Linear ft. 340 Linear ft. of Masonry Voids 340
Approximate Total Gallons of Solution Applied 944
Was treatment completed on exterior? ☐ Yes ☒ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)
Comments

Name of Applicator(s) Steve Brannen Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date 7-11-05

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

EnergyGauge® 3.4

33278
Mark Haddox
365-4981

ENERGY EFFICIENCY CODE
ILDING CONSTRUCTION

da Department of Community Affairs
Whole Building Performance Method A

GLEN

Builder: **WOODMAN PARK BUILDER**
Permitting Office: **COLUMBIA COUNTY**
Permit Number:
Jurisdiction Number:

		New	__
2.	Single family or multi-family	Single family	__
3.	Number of units, if multi-family	1	__
4.	Number of Bedrooms	4	__
5.	Is this a worst case?	No	__
6.	Conditioned floor area (ft²)	3206 ft²	__
7.	Glass area & type	Single Pane / Double Pane	
a.	Clear glass, default U-factor	112.0 ft² / 239.0 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, 318.5(p) ft	__
b.	N/A		__
c.	N/A		__
9.	Wall types		
a.	Frame, Wood, Exterior	R=17.5, 2259.0 ft²	__
b.	N/A		__
c.	N/A		__
d.	N/A		__
e.	N/A		__
10.	Ceiling types		__
a.	Under Attic	R=30.0, 3206.0 ft²	
b.	N/A		__
c.	N/A		__
11.	Ducts		__
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft	
b.	Sup: Con. Ret: Con. AH: Attic	Sup. R=6.0, 30.0 ft	__
			__

12.	Cooling systems		
a.	Central Unit	Cap: 48.0 kBtu/hr	__
		SEER: 12.00	__
b.	Central Unit	Cap: 24.0 kBtu/hr	__
		SEER: 12.00	__
c.	N/A		__
			__
13.	Heating systems		
a.	PTHP	Cap: 48.0 kBtu/hr	__
		COP: 3.40	__
b.	PTHP	Cap: 24.0 kBtu/hr	__
		COP: 3.40	__
c.	N/A		__
			__
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 gallons	__
		EF: 0.90	__
b.	N/A		__
			__
c.	Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		__
15.	HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		__

Glass/Floor Area: 0.11

Total as-built points: 32863
Total base points: 43647

PASS

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

PREPARED BY: Larry Resmondo A/C
DATE: Aug 30, 2005

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.

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

BUILDING OFFICIAL: _____
DATE: _____

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, LAKE CITY, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points	
.18	3206.0	20.04	11564.7	Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.6	
				Single, Clear	E	1.5	8.0	21.0	47.92	0.96	961.8	
				Double, Clear	N	1.5	5.0	16.0	19.20	0.92	281.3	
				Double, Clear	S	1.5	6.0	28.5	35.87	0.86	875.2	
				Double, Clear	N	1.5	5.0	16.0	19.20	0.92	281.3	
				Single, Clear	S	9.0	8.0	35.0	40.81	0.50	717.0	
				Single, Clear	E	1.5	8.0	35.0	47.92	0.96	1603.0	
				Single, Clear	E	3.0	8.0	21.0	47.92	0.81	817.0	
				Double, Clear	W	1.5	6.0	15.0	38.52	0.91	527.8	
				Double, Clear	S	1.5	6.0	15.0	35.87	0.86	460.6	
				Double, Clear	S	1.5	6.0	28.5	35.87	0.86	875.2	
				Double, Clear	S	9.0	8.0	70.0	35.87	0.50	1260.4	
				Double, Clear	N	6.0	8.0	35.0	19.20	0.76	508.5	
				As-Built Total:				**351.0**			**9629.5**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	17.5	2259.0	1.05	2371.9
Exterior	2259.0	1.70	3840.3					
Base Total:	**2259.0**		**3840.3**	**As-Built Total:**		**2259.0**		**2371.9**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	21.0	6.10	128.1
Exterior	21.0	6.10	128.1				
Base Total:	**21.0**		**128.1**	**As-Built Total:**	**21.0**		**128.1**

CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM =	Points
Under Attic	3206.0	1.73	5546.4	Under Attic	30.0	3206.0	1.73 X 1.00	5546.4
Base Total:	**3206.0**		**5546.4**	**As-Built Total:**		**3206.0**		**5546.4**

FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Slab	318.5(p)	-37.0	-11784.5	Slab-On-Grade Edge Insulation	0.0	318.5(p	-41.20	-13122.2
Raised	0.0	0.00	0.0					
Base Total:			**-11784.5**	**As-Built Total:**		**318.5**		**-13122.2**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, LAKE CITY, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BSPM	= Points		Area X	SPM	= Points			
	3206.0	10.21	32733.3		3206.0	10.21	32733.3			
Summer Base Points:			**42028.2**	**Summer As-Built Points:**						**37287.0**
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	
				37287.0	0.667	(1.090 x 1.147 x 0.91)	0.284	1.000	8402.8	
				37287.0	0.333	(1.000 x 1.147 x 1.11)	0.284	1.000	4201.4	
42028.2	**0.4266**	**17929.2**		**37287.0**	**1.00**	**1.189**	**0.284**	**1.000**	**12604.2**	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, LAKE CITY, FL,** PERMIT #:

BASE				AS-BUILT								
GLASS TYPES .18 X Conditioned Floor Area	X BWPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points	
.18	3206.0	12.74	7352.0	Double, Clear	S	1.5	6.0	15.0	13.30	1.12	222.9	
				Single, Clear	E	1.5	8.0	21.0	26.41	1.02	565.9	
				Double, Clear	N	1.5	5.0	16.0	24.58	1.00	394.7	
				Double, Clear	S	1.5	6.0	28.5	13.30	1.12	423.5	
				Double, Clear	N	1.5	5.0	16.0	24.58	1.00	394.7	
				Single, Clear	S	9.0	8.0	35.0	20.24	2.94	2085.1	
				Single, Clear	E	1.5	8.0	35.0	26.41	1.02	943.2	
				Single, Clear	E	3.0	8.0	21.0	26.41	1.08	596.8	
				Double, Clear	W	1.5	6.0	15.0	20.73	1.02	318.2	
				Double, Clear	S	1.5	6.0	15.0	13.30	1.12	222.9	
				Double, Clear	S	1.5	6.0	28.5	13.30	1.12	423.5	
				Double, Clear	S	9.0	8.0	70.0	13.30	2.94	2739.7	
				Double, Clear	N	6.0	8.0	35.0	24.58	1.01	872.9	
				As-Built Total:				**351.0**			**10204.3**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	17.5	2259.0	2.50	5647.5
Exterior	2259.0	3.70	8358.3					
Base Total:	**2259.0**		**8358.3**	**As-Built Total:**		**2259.0**		**5647.5**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Exterior Wood	21.0	12.30	258.3
Exterior	21.0	12.30	258.3				
Base Total:	**21.0**		**258.3**	**As-Built Total:**	**21.0**		**258.3**

CEILING TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM X	WCM =	Points
Under Attic	3206.0	2.05	6572.3	Under Attic	30.0	3206.0	2.05 X	1.00	6572.3
Base Total:	**3206.0**		**6572.3**	**As-Built Total:**		**3206.0**			**6572.3**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	318.5(p)	8.9	2834.6	Slab-On-Grade Edge Insulation	0.0	318.5(p	18.80	5987.8
Raised	0.0	0.00	0.0					
Base Total:			**2834.6**	**As-Built Total:**		**318.5**		**5987.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, LAKE CITY, FL,** PERMIT #:

BASE				AS-BUILT						
INFILTRATION	Area X	BWPM =	Points				Area X	WPM =	Points	
	3206.0	-0.59	-1891.5				3206.0	-0.59	-1891.5	
Winter Base Points:			**23484.0**	**Winter As-Built Points:**						**26778.7**
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	
				26778.7	0.667	(1.069 x 1.169 x 0.93)	0.294	1.000	6345.9	
				26778.7	0.333	(1.000 x 1.169 x 1.10)	0.294	1.000	3173.0	
23484.0	**0.6274**	**14733.9**		**26778.7**	**1.00**	**1.209**	**0.294**	**1.000**	**9518.9**	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, LAKE CITY, FL,** PERMIT #:

BASE				AS-BUILT							
WATER HEATING											
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	X Multiplier	X Credit Multiplier	= Total	
4		2746.00	10984.0	50.0	0.90	4	1.00	2684.98	1.00	10739.9	
				As-Built Total:							**10739.9**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
17929	**14734**	**10984**	**43647**	**12604**	**9519**	**10740**	**32863**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **372 SUNDAY GLEN, 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* = 87.5

The higher the score, the more efficient the home.

HADDOX, 372 SUNDAY GLEN, LAKE CITY, FL,

1. New construction or existing		New	__
2. Single family or multi-family		Single family	__
3. Number of units, if multi-family		1	__
4. Number of Bedrooms		4	__
5. Is this a worst case?		No	__
6. Conditioned floor area (ft²)		3206 ft²	__
7. Glass area & type	Single Pane	Double Pane	
a. Clear glass, default U-factor	112.0 ft²	239.0 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, 318.5(p) ft	__
b. N/A			__
c. N/A			
9. Wall types			__
a. Frame, Wood, Exterior		R=17.5, 2259.0 ft²	__
b. N/A			__
c. N/A			
d. N/A			__
e. N/A			__
10. Ceiling types			__
a. Under Attic		R=30.0, 3206.0 ft²	__
b. N/A			__
c. N/A			
11. Ducts			__
a. Sup: Unc. Ret: Unc. AH: Interior		Sup. R=6.0, 50.0 ft	__
b. Sup: Con. Ret: Con. AH: Attic		Sup. R=6.0, 30.0 ft	__
			__
			__

12. Cooling systems		
a. Central Unit	Cap: 48.0 kBtu/hr	__
	SEER: 12.00	__
b. Central Unit	Cap: 24.0 kBtu/hr	__
	SEER: 12.00	__
c. N/A		__
		__
13. Heating systems		
a. PTHP	Cap: 48.0 kBtu/hr	__
	COP: 3.40	__
b. PTHP	Cap: 24.0 kBtu/hr	__
	COP: 3.40	__
c. N/A		__
		__
14. Hot water systems		
a. Electric Resistance	Cap: 50.0 gallons	__
	EF: 0.90	__
b. N/A		__
		__
c. Conservation credits		__
(HR-Heat recovery, Solar		
DHP-Dedicated heat pump)		
15. HVAC credits		__
(CF-Ceiling fan, CV-Cross ventilation,		
HF-Whole house fan,		
PT-Programmable Thermostat,		
MZ-C-Multizone cooling,		
MZ-H-Multizone heating)		

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™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/488-7817.

DUCT SYSTEM SUMMARY
ZONE 2
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

	HEATING	COOLING
External Static Pressure:	***0.10*** in H2O	***0.10*** in H2O
Pressure Losses:	0.25 in H2O	0.25 in H2O
Available Static Pressure:	-0.2 in H2O	-0.2 in H2O
Friction Rate:	***0.100*** in/100ft	***0.100*** in/100ft
Actual AVF:	1000 cfm	1000 cfm

Total Effective Length (TEL): 100 ft

Supply Branch Detail Table

Name	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trnk
MASTER BEDROOM	4399	3774	281	358	0.100	542	11	0x 0	VlFx	st1
MASTER CLOSET	1111	367	71	35	0.100	362	6	0x 0	VlFx	st1
MASTER BATH	1968	981	126	93	0.100	471	7	0x 0	VlFx	st1
SITTING ROOM	2101	1499	134	142	0.100	407	8	0x 0	VlFx	st1
BATH 2	365	164	23	16	0.100	268	4	0x 0	VlFx	st1A
BEDROOM 2	2029	1287	130	122	0.100	486	7	0x 0	VlFx	st1A
HALL	72	83	5	8	0.100	91	4	0x 0	VlFx	st1A
BEDROOM 3	3589	2388	230	226	0.100	520	9	0x 0	VlFx	st1A

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Vel (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	1000	1000	716	16	0 x 0	VinlFlx	
st1A	Peak AVF	387	372	587	11	0 x 0	VinlFlx	st1

Return Branch Detail Table

Name	Diffus Sz (in)	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trunk
rb1	0 x 0	15634	10543	1000	1000	0.100	634	17	0x 0	RtFg	

Bold/italic values have been manually overridden

DUCT SYSTEM SUMMARY
ZONE1

LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

	HEATING	COOLING
External Static Pressure:	***0.10*** in H2O	***0.10*** in H2O
Pressure Losses:	0.25 in H2O	0.25 in H2O
Available Static Pressure:	-0.2 in H2O	-0.2 in H2O
Friction Rate:	***0.100*** in/100ft	***0.100*** in/100ft
Actual AVF:	2000 cfm	2000 cfm

Total Effective Length (TEL): 140 ft

Supply Branch Detail Table

Name	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trnk
UTILITY ROOM	1591	3294	115	268	0.100	492	10	0x 0	VlFx	st1
1/2 BATH	32	37	2	3	0.100	35	4	0x 0	VlFx	st1
GARAGE	3615	2661	262	217	0.100	481	10	0x 0	VlFx	st1
GARAGE-A	3615	2661	262	217	0.100	481	10	0x 0	VlFx	st1
HALL 1	1917	2128	139	173	0.100	496	8	0x 0	VlFx	st1
KITCHEN	873	3086	63	251	0.100	569	9	0x 0	VlFx	st1
BATH 3	127	147	9	12	0.100	137	4	0x 0	VlFx	st1
BEDROOM 4	3668	3399	266	277	0.100	508	10	0x 0	VlFx	st1
BED 4 CLOSET	713	236	52	19	0.100	379	5	0x 0	VlFx	st1A
DEN/HALL	2269	1634	165	133	0.100	472	8	0x 0	VlFx	st1A
GREAT ROOM	4571	2639	332	215	0.100	608	10	0x 0	VlFx	st1B
GREAT ROOM-A	4571	2639	332	215	0.100	608	10	0x 0	VlFx	st1A

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Vel (fpm)	Diam (in)	Rect Duct Size (in)	Duct Material	Trunk
st1	Peak AVF	2000	2000	832	21	0 x 0	VinlFlx	
st1A	Peak AVF	880	582	717	15	0 x 0	VinlFlx	st1
st1B	Peak AVF	332	215	608	10	0 x 0	VinlFlx	st1A

Bold/italic values have been manually overridden

Return Branch Detail Table

Name	Diffus Sz (in)	Htg (Btuh)	Clg (Btuh)	Htg (cfm)	Clg (cfm)	Dsn FR	Vel (fpm)	Dia (in)	Rect Sz (in)	Duct Matl	Trunk
rb1	0 x 0	27561	24562	2000	2000	0.100	693	23	0x 0	RtFg	

RIGHT-J BUILDING ANALYSIS REPORT
Entire House
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

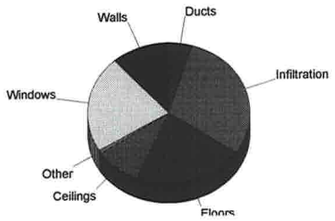
	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

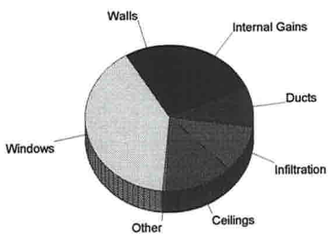
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.2	5015	11.6
Windows	27.0	9488	22.0
Doors	17.0	357	0.8
Ceilings	1.2	3914	9.1
Floors	30.0	9545	22.1
Infiltration	34.5	12819	29.7
Ducts		2057	4.8
Total		**43196**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.2	2792	8.5
Windows	37.6	13205	40.2
Doors	9.5	199	0.6
Ceilings	1.4	4338	13.2
Floors	0.0	0	0.0
Infiltration	9.0	3366	10.2
Ducts		2990	9.1
Internal gains		6000	18.2
Total		**32890**	**100.0**



Cooling at 82 % SHR = 3.3 ton
Cooling at 70 % SHR = 3.8 ton
Cooling air flow = 353 cfm/ton
Cooling at 400 cfm/ton = 2.9 ton
Overall U-Value = 0.124 Btuh/ft²-°F

Data entries checked.

RIGHT-J BUILDING ANALYSIS REPORT
ZONE 2
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

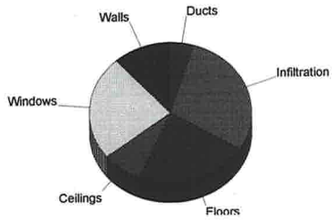
	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

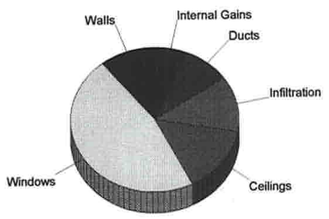
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.2	1804	11.5
Windows	28.5	3753	24.0
Doors	0.0	0	0.0
Ceilings	1.2	1266	8.1
Floors	30.0	3536	22.6
Infiltration	34.5	4531	29.0
Ducts		744	4.8
Total		**15634**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.2	1004	9.5
Windows	33.6	4423	42.0
Doors	0.0	0	0.0
Ceilings	1.4	1402	13.3
Floors	0.0	0	0.0
Infiltration	9.0	1190	11.3
Ducts		862	8.2
Internal gains		600	5.7
Total		**9481**	**89.9**



Cooling at 80 % SHR = 1.1 ton
Cooling at 70 % SHR = 1.2 ton

Cooling air flow = 929 cfm/ton
Cooling at 400 cfm/ton = 2.5 ton

Overall U-Value = 0.133 Btuh/ft²-°F

Data entries checked.

RIGHT-J BUILDING ANALYSIS REPORT
ZONE1

LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

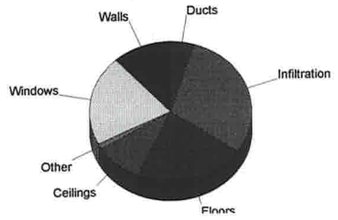
	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

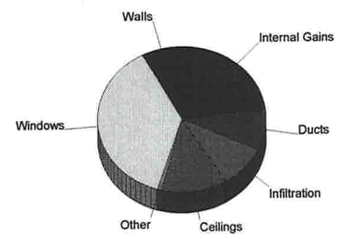
Heating

Component	Btuh/ft²	Btuh	% of load
Walls	2.2	3211	11.7
Windows	26.1	5735	20.8
Doors	17.0	357	1.3
Ceilings	1.2	2649	9.6
Floors	30.0	6009	21.8
Infiltration	34.5	8288	30.1
Ducts		1312	4.8
Total		**27562**	**100.0**



Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.2	1788	7.3
Windows	40.0	8783	35.8
Doors	9.5	199	0.8
Ceilings	1.4	2935	11.9
Floors	0.0	0	0.0
Infiltration	9.0	2176	8.9
Ducts		2128	8.7
Internal gains		5400	22.0
Total		**23408**	**95.3**



Cooling at 84 % SHR = 2.4 ton
Cooling at 70 % SHR = 2.8 ton
Cooling air flow = 846 cfm/ton
Cooling at 400 cfm/ton = 5.0 ton
Overall U-Value = 0.120 Btuh/ft²-°F

Data entries checked.

RIGHT-J LOAD AND EQUIPMENT SUMMARY
Entire House
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Building heat loss	43196 Btuh
Ventilation air	0 cfm
Ventilation air loss	0 Btuh
Design heat load	43196 Btuh

Sensible Cooling Equipment Load Sizing

Structure	32890 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	31903 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	3206	3206
Volume (ft³)	26943	26943
Air changes/hour	0.7	0.4
Equiv. AVF (cfm)	315	180

Latent Cooling Equipment Load Sizing

Internal gains	920 Btuh
Ventilation	0 Btuh
Infiltration	6309 Btuh
Total latent equip. load	7229 Btuh
Total equipment load	39132 Btuh

Heating Equipment Summary

Make n/a
Trade n/a
n/a

Efficiency	n/a
Heating input	0 Btuh
Heating output	0 Btuh
Heating temp rise	0 °F
Actual heating fan	0 cfm
Heating air flow factor	0.000 cfm/Btuh
Space thermostat	n/a

Cooling Equipment Summary

Make n/a
Trade n/a
n/a
n/a

Efficiency	n/a
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual cooling fan	0 cfm
Cooling air flow factor	0.000 cfm/Btuh
Load sensible heat ratio	0 %

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

RIGHT-J LOAD AND EQUIPMENT SUMMARY
ZONE 2
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Building heat loss	15634 Btuh
Ventilation air	0 cfm
Ventilation air loss	0 Btuh
Design heat load	15634 Btuh

Sensible Cooling Equipment Load Sizing

Structure	10543 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	10226 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	1037	1037
Volume (ft³)	8292	8292
Air changes/hour	0.8	0.5
Equiv. AVF (cfm)	111	64

Latent Cooling Equipment Load Sizing

Internal gains	460 Btuh
Ventilation	0 Btuh
Infiltration	2230 Btuh
Total latent equip. load	2690 Btuh
Total equipment load	12917 Btuh

Heating Equipment Summary

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-024JA

Efficiency	3.4 HSPF
Heating input	0 Btuh
Heating output	0 Btuh
Heating temp rise	0 °F
Actual heating fan	1000 cfm
Heating air flow factor	0.064 cfm/Btuh

Space thermostat

Cooling Equipment Summary

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-024JA
RCHJ-24A2

Efficiency	12.0 SEER
Sensible cooling	15820 Btuh
Latent cooling	6780 Btuh
Total cooling	22600 Btuh
Actual cooling fan	1000 cfm
Cooling air flow factor	0.095 cfm/Btuh
Load sensible heat ratio	80 %

Printout certified by ACCA to meet all requirements of Manual J 7th Ed.

RIGHT-J LOAD AND EQUIPMENT SUMMARY
ZONE1
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Notes:

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

Outside db	33 °F
Inside db	70 °F
Design TD	37 °F

Summer Design Conditions

Outside db	92 °F
Inside db	75 °F
Design TD	17 °F
Daily range	M
Relative humidity	50 %
Moisture difference	52 gr/lb

Heating Summary

Building heat loss	27562 Btuh
Ventilation air	0 cfm
Ventilation air loss	0 Btuh
Design heat load	27562 Btuh

Sensible Cooling Equipment Load Sizing

Structure	24563 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	23826 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

	Heating	Cooling
Area (ft²)	2169	2169
Volume (ft³)	18651	18651
Air changes/hour	0.7	0.4
Equiv. AVF (cfm)	204	116

Latent Cooling Equipment Load Sizing

Internal gains	460 Btuh
Ventilation	0 Btuh
Infiltration	4079 Btuh
Total latent equip. load	4539 Btuh
Total equipment load	28365 Btuh

Heating Equipment Summary

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-048JA

Efficiency	3.4 HSPF
Heating input	0 Btuh
Heating output	0 Btuh
Heating temp rise	0 °F
Actual heating fan	2000 cfm
Heating air flow factor	0.073 cfm/Btuh

Space thermostat

Cooling Equipment Summary

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-048JA
RCHJ-51A1

Efficiency	12.0 SEER
Sensible cooling	32200 Btuh
Latent cooling	13800 Btuh
Total cooling	46000 Btuh
Actual cooling fan	2000 cfm
Cooling air flow factor	0.081 cfm/Btuh
Load sensible heat ratio	84 %

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RIGHT-J SHORT FORM
Entire House
LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make n/a
Trade n/a
n/a

Efficiency	n/a	
Heating input	0	Btuh
Heating output	0	Btuh
Heating temperature rise	0	°F
Actual heating fan	0	cfm
Heating air flow factor	0.000	cfm/Btuh
Space thermostat	n/a	

COOLING EQUIPMENT

Make n/a
Trade n/a
n/a
n/a

Efficiency	n/a	
Sensible cooling	0	Btuh
Latent cooling	0	Btuh
Total cooling	0	Btuh
Actual cooling fan	0	cfm
Cooling air flow factor	0.000	cfm/Btuh
Load sensible heat ratio	0	%

ROOM NAME		Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
ZONE 2	n p	1037	15634	10543	1000	1000
ZONE1	n p	2169	27562	24563	2000	2000
Entire House	d	3206	43196	32890	3000	3000
Ventilation air			0	0		
Equip. @ 0.97 RSM				31903		
Latent cooling				7229		
TOTALS		3206	43196	39132	3000	3000

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RIGHT-J SHORT FORM
ZONE 2

LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-024JA

Efficiency	3.4 HSPF	
Heating input	0	Btuh
Heating output	0	Btuh
Heating temperature rise	0	°F
Actual heating fan	1000	cfm
Heating air flow factor	0.064	cfm/Btuh

Space thermostat

COOLING EQUIPMENT

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-024JA
RCHJ-24A2

Efficiency	12.0 SEER	
Sensible cooling	15820	Btuh
Latent cooling	6780	Btuh
Total cooling	22600	Btuh
Actual cooling fan	1000	cfm
Cooling air flow factor	0.095	cfm/Btuh
Load sensible heat ratio	80	%

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
MASTER BEDROOM	225	4399	3774	281	358
MASTER CLOSET	104	1111	367	71	35
MASTER BATH	192	1968	981	126	93
SITTING ROOM	68	2101	1499	134	142
BATH 2	70	365	164	23	16
BEDROOM 2	161	2029	1287	130	122
HALL	56	72	83	5	8
BEDROOM 3	161	3589	2388	230	226
ZONE 2 n p	1037	15634	10543	1000	1000
Ventilation air		0	0		
Equip. @ 0.97 RSM			10226		
Latent cooling			2690		
TOTALS	1037	15634	12917	1000	1000

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RIGHT-J SHORT FORM
ZONE1

LARRY RESMONDO A/C

Job: HADDOX BISHOP ROAD
5/26/05

715 NW 1ST AVE, HIGH SPRINGS, FL 32643 Phone: 386-454-4433 Fax: 386-454-8843 Email: resmondoac@netcommander.com

Project Information

For: WOODMAN PARK BUILDERS
P.O. BOX 3535, LAKE CITY, FL 32056
Phone: 386-755-2411 Fax: 386-755-1126

Design Information

	Htg	Clg
Outside db (°F)	33	92
Inside db (°F)	70	75
Design TD (°F)	37	17
Daily range	-	M
Inside humidity (%)	-	50
Moisture difference (gr/lb)	-	52

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

HEATING EQUIPMENT

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-048JA

Efficiency	3.4 HSPF	
Heating input	0	Btuh
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Heating temperature rise	0	°F
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Space thermostat

COOLING EQUIPMENT

Make RUUD AIR COND
Trade Ruud UPMB Series
UPMB-048JA
RCHJ-51A1

Efficiency	12.0 SEER	
Sensible cooling	32200	Btuh
Latent cooling	13800	Btuh
Total cooling	46000	Btuh
Actual cooling fan	2000	cfm
Cooling air flow factor	0.081	cfm/Btuh
Load sensible heat ratio	84	%

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
UTILITY ROOM	120	1591	3294	115	268
1/2 BATH	25	32	37	2	3
GARAGE	616	7230	5322	525	433
HALL 1	37	1917	2128	139	173
KITCHEN	212	873	3086	63	251
BATH 3	99	127	147	9	12
BEDROOM 4	225	3668	3399	266	277
BED 4 CLOSET	68	713	236	52	19
DEN/HALL	120	2269	1634	165	133
GREAT ROOM	648	9143	5279	663	430

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ZONE1 n p Ventilation air Equip. @ 0.97 RSM Latent cooling		2169	27562 0	24563 0 23826 4539	2000	2000
TOTALS		2169	27562	28365	2000	2000

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Perm # 23278
755-2411

Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph 386-754-5419, Fax 386-269-4871

06 July 05

Building Inspector, Columbia Co., Florida

Re: Foundation Inspection, Haddox Residence, 372 Sunday Glen Lake City, Florida 32056 Columbia Co.

Dear Building Inspector:

This letter is in reference to a foundation inspection issue for Haddox Residence, 372 Sunday Glen Lake City, Florida 32056 Columbia Co., Windload Engineering Job No. MD505062.

The "Windload Engineering", Job No. 505062, sheet S-1 specifies a reinforced 8" CMU stem wall foundation with #5 vertical at 8'OC and height maximum 5 courses. The footing steps down on part of the house and the stem wall is higher than 5 courses.

Please accept this letter as addendum to the plans to allow a reinforced 8" CMU stem wall foundation with reinforcement schedule per the attached table. The table assumes 60 ksi reinforcing bars with 6" hook in the footing and bent 24" into the reinforced slab at the top. The vertical steel is to be placed toward the tension side of the CMU wall (away from the soil pressure, within 2" of the exterior side of the wall). If the wall is over 8' high, add Durowall ladder reinforcement at 16"OC vertically or a horizontal bond beam with 1#5 continuous at mid height. For higher parts of the wall 12" CMU may be used with reinforcement as shown in the table below.

- Note: Chuck Wood Stated the highest point in the stem wall is 6 courses or 4' which requires 1#5 at 96"OC so therefore the stem wall is OK if built according to plan.

Important: The slab braces the top of the stem wall against outward pressure of backfill. The wall should be temporarily braced as the backfill is compacted.

Sincerely,

06JUL05

Mark Disosway
Florida Professional Engineer No. 53915

cc Woodman Park, Contractor

Stemwall Height (Feet)	Unbalanced Backfill Height	Vertical Reinforcement For 8" CMU Stemwall (Inches OC)			Vertical Reinforcement For 12" CMU Stemwall (Inches OC)		
		#5	#7	#8	#5	#7	#8
3.3	3.0	96	96	96	96	96	96
4.0	3.7	96	96	96	96	96	96
4.7	4.3	88	96	96	96	96	96
5.3	**5.0**	**56**	**96**	**96**	**96**	**96**	**96**
6.0	5.7	40	80	96	80	96	96
6.7	6.3	32	56	80	56	96	96
7.3	7.0	24	40	56	40	80	96
8.0	7.7	16	32	48	32	64	80
8.7	8.3	8	24	32	24	48	64
9.3	9.0	8	16	24	16	40	48

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 34-4S-16-03271-003 **Building permit No.** 000023278

Use Classification SFD & UTILITY **Fire:** 66.08

Permit Holder WILLIAM G. WOOD **Waste:** 98.00

Owner of Building MARK HADDOX **Total:** 164.08

Location: 372 SW SUNDAY GLEN, LAKE CITY, FL

Date: 02/21/2006

COLUMBIA COUNTY GATEWAY TO FLORIDA

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)