DATE 08/18/2004

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000022210

APPLICANT GARY THOMPSON PHONE 935-2118

ADDRESS 3554 256TH STREET O'BRIEN FL 32071

OWNER LAMAR & LEANN HIRES PHONE 755-5913

ADDRESS 1000 SW LEGION DRIVE LAKE CITY FL 32024

CONTRACTOR THOMPSON CONSTRUCTION PHONE

LOCATION OF PROPERTY BRANFORD, TR ON TAMARACK, TL ON LEGION, GO INTO SUBDIVISION
1ST LOT ON LEFT

TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 149000.00

HEATED FLOOR AREA 2980.00 TOTAL AREA 3892.00 HEIGHT .00 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 8/12 FLOOR SLAB

LAND USE & ZONING A-3 MAX. HEIGHT 25

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

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

PARCEL ID 17-4S-16-03051-125 SUBDIVISION SOUTH POINTE

LOT 25 BLOCK PHASE UNIT TOTAL ACRES 5.01

000000386 N CRC046869 Gary N. Thompson
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor

PERMIT 04-0822-N BK RJ Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 8688

FOR BUILDING & ZONING DEPARTMENT ONLY

Temporary Power date/app. by Foundation date/app. by Monolithic (footer/Slab) 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 $ 745.00 CERTIFICATION FEE $ 19.46 SURCHARGE FEE $ 19.46

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

FLOOD ZONE DEVELOPMENT FEE $ CULVERT FEE $ 25.00 **TOTAL FEE** 858.92

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.

Inst:2004016347 Date:07/15/2004 Time:08:56
MK DC,P.DeWitt Cason,Columbia County B:1020 P:2517

8688

Columbia County Building Permit Application

For Office Use Only Application # 0408-10 Date Received 8/4/04 By JW Permit # 386/22210
Application Approved by - Zoning Official BK Date 8/18/03 Plans Examiner RJ Date
Flood Zone X Development Permit Zoning A-3 Land Use Plan Map Category A-3
Comments 1. NEED Signed Engineering Site Plan
2. Truss Package L added

Applicants Name ~~LAMAR & LEEANN~~ GARY W. THOMPSON Phone ~~755-5913~~ 935-2118
Address 3554 256 ST. O'BRIEN, FL. 32071
Owners Name LAMAR & LEANN HIRES Phone 755-5913
911 Address 1000 SW LEGION DR. LAKE CITY, FL. 32024
Contractors Name THOMPSON CONSTRUCTION Phone 386) 935-2118
Address 3554 256 ST O'BRIEN, FL. 32071
Fee Simple Owner Name & Address
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address NICHOLAS GEISLER RT 17 BOX 1038 LC 32055
Mortgage Lenders Name & Address CNB NATIONAL BANK 187 SW BAYA DR LC 32025

Property ID Number 17-4S-16-03051-125 Estimated Cost of Construction $311,000.00
Subdivision Name SOUTH POINTE Lot 25 Block Unit Phase
Driving Directions FROM LAKE CITY GO WEST ON 247 & TURN RIGHT ON TAMARACK GO 3/10 MILES TURN LEFT ONTO LEGION GO 8/10 MILES. LOT 25 ON LEFT

Type of Construction S/F NEW CONSTRUCTION Number of Existing Dwellings on Property -0-
Total Acreage 5.01 Lot Size Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dri
Actual Distance of Structure from Property Lines - Front 150 Side 435' Side 200 Rear 150
Total Building Height 25'-10" Number of Stories 1 Heated Floor Area 2980 Roof Pitch 8/12

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

[signature]
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF ~~COLUMBIA~~ Suwannee

Sworn to (or affirmed) and subscribed before me
this 4 day of aug 2004
Personally known ✓ or Produced Identification

ELIZABETH A. SELF
MY COMMISSION # DD 018375
EXPIRES: April 17, 2005
Bonded Thru Notary Public Underwriters

[signature]
Contractor Signature
Contractors License Number CRC046869
Competency Card Number

NOTARY STAMP/SEAL

Elizabeth A Self
Notary Signature

Inst:2004016347 Date:07/15/2004 Time:08:56
DC,P.DeWitt Cason,Columbia County B:1020 P:2518

8. OWNER DESIGNATES THE FOLLOWING PERSON IN ADDITION TO HIMSELF TO RECEIVE A COPY OF THE LIENORS NOTICE AS PROVIDED IN SECTION 713.13 (1) (b), FLORIDA STATUTES:
   Name: CNB NATIONAL BANK
   Address: 187 SW BAYA DR., P.O. BOX 3239
   LAKE CITY, FLORIDA 32025
   Attn:

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

WITNESS GARY W. NORRIS

WITNESS DIANE A. CREWS

OWNER Hershell Lamar Hires, Jr.

OWNER Lee Ann Hires

OWNER

OWNER

State of Florida

The following instrument was acknowledged before me this JULY 14, 2004 by Hershell Lamar Hires, Jr. AND Lee Ann Hires, HUSBAND AND WIFE

who is personally known to me or who has ~~produced~~ FLA. DRIVERS' LICENSES as identification and who did NOT take an oath.

NOTARY PUBLIC _____ (Seal)

MY COMMISSION EXPIRES:

OFFICIAL NOTARY SEAL
DIANE A CREWS
NOTARY PUBLIC STATE OF FLORIDA
~~COMMISSION NO. DD086668~~
MY COMMISSION EXP. FEB. 9,2006

Exhibit A

Lot 25, SOUTH POINTE, a subdivision according to the plat thereof as recorded in Plat Book 7, Pages 52, 53 and 54 of the public records of Columbia County, Florida.

Parcel Identification Number: 17-4S-16-03051-125

Inst:2004016347 Date:07/15/2004 Time:08:56
_____DC,P.DeWitt Cason,Columbia County B:1020 P:2519

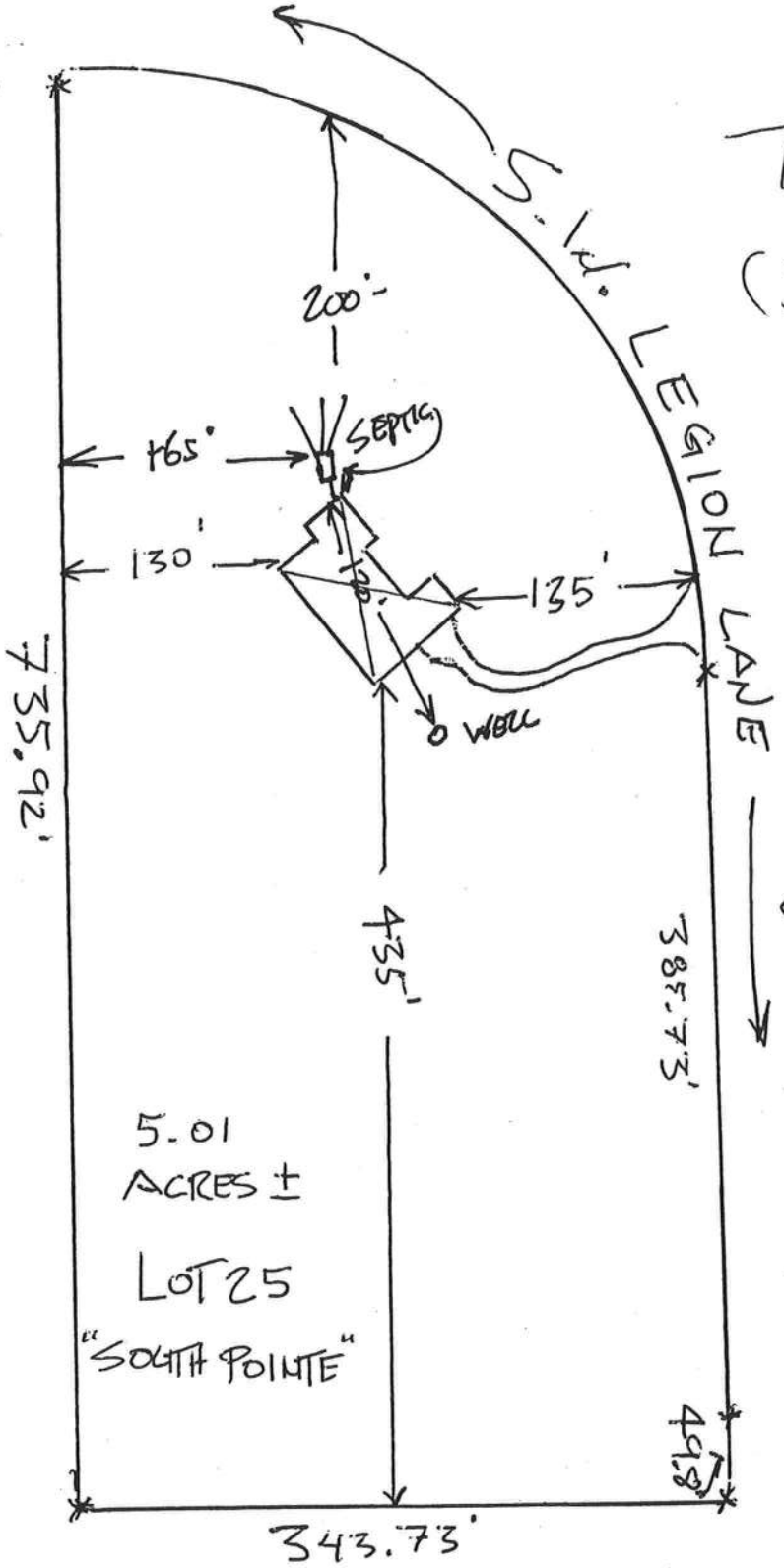
STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DeWITT CASON, CLERK OF COURTS

By Marcel Keen
Deputy Clerk

Date July 15, 2004

CLERK CIRCUIT COURT
COLUMBIA COUNTY, FLORIDA

Lemar & Leann Hires



Thompson Constr
(384) 935-2118

Approved by:
Sallie Shadel
ESI-COLUMBIA
8-5-04

APPROVED
OSTDS #
04-0822-N

Gary N. Thompson Aug 4/04 ATTN Ron

STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 04-0822N

PART II - SITE PLAN

Scale: Each block represents 5 feet and 1 inch = 50 feet.

See attached

Notes: _____

Site Plan submitted by: _____ Agent
Signature Title

Plan Approved _____ Not Approved _____ Date 8-04-04

By See attached → County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Hires Residence**	Builder:	**Gary Thompson**
Address:	**Lot: 25, Sub: Southpoint, Plat:**	Permitting Office:	
City, State:	**Lake City, FL 32024-**	Permit Number:	22210
Owner:	**Lamar & LeeAnn Hires**	Jurisdiction Number:	221000
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 54.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 10.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes		
6. Conditioned floor area (ft²)	2980 ft²	c. N/A	
7. Glass area & type			
a. Clear - single pane	0.0 ft²	13. Heating systems	
b. Clear - double pane	469.5 ft²	a. Electric Heat Pump	Cap: 54.0 kBtu/hr
c. Tint/other SHGC - single pane	0.0 ft²		HSPF: 6.80
d. Tint/other SHGC - double pane	0.0 ft²	b. N/A	
8. Floor types			
a. Slab-On-Grade Edge Insulation	R=0.0, 323.0(p) ft	c. N/A	
b. N/A			
c. N/A		14. Hot water systems	
9. Wall types		a. LP Gas	Cap: 40.0 gallons
a. Frame, Wood, Exterior	R=13.0, 2852.0 ft²		EF: 0.66
b. Frame, Wood, Adjacent	R=13.0, 216.0 ft²	b. LP Gas	Cap: 40.0 gallons
c. N/A			EF: 0.66
d. N/A		c. Conservation credits	
e. N/A		(HR-Heat recovery, Solar DHP-Dedicated heat pump)	
10. Ceiling types		15. HVAC credits	
a. Under Attic	R=30.0, 2980.0 ft²	(CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 168.0 ft		
b. N/A			

Glass/Floor Area: 0.16

Total as-built points: 38105
Total base points: 42400

PASS

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

PREPARED BY: _____

DATE: 7-21-04

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

OWNER/AGENT: _____

DATE: 8/04/04

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 25, Sub: Southpoint, Plat: , Lake City, FL, 32024-** 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.	

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 25, Sub: Southpoint, Plat: , Lake City, FL, 32024-** 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
3		2746.00	8238.0	40.0	0.66	3		0.50	1973.45	1.00	2960.2
				40.0	0.66	3		0.50	1973.45	1.00	2960.2
				As-Built Total:							**5920.4**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
17140	**17023**	**8238**	**42400**	**16232**	**15952**	**5920**	**38105**

PASS

Residential System Sizing Calculation

Summary

Lamar & LeeAnn Hires

Lake City, FL 32024-

Project Title:
Hires Residence

Code Only
Professional Version
Climate: North

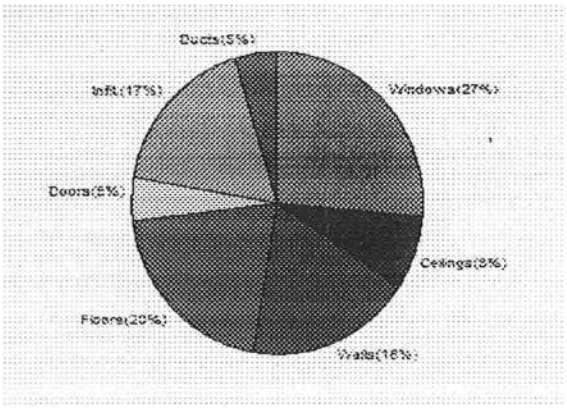
7/21/2004

Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)					
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(51gr.)					
Winter design temperature	31	F	Summer design temperature	93	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	39	F	Summer temperature difference	18	F
Total heating load calculation	**49859**	**Btuh**	**Total cooling load calculation**	**48965**	**Btuh**
Submitted heating capacity	54000	Btuh	Submitted cooling capacity	54000	Btuh
Submitted as % of calculated	108.3	%	Submitted as % of calculated	110.3	%

WINTER CALCULATIONS

Winter Heating Load (for 2980 sqft)

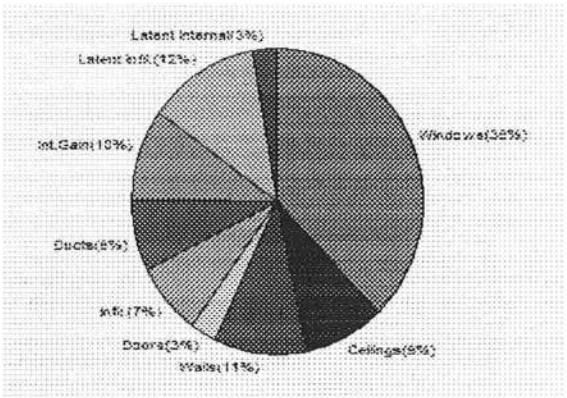
Load component			Load	
Window total	470	sqft	13287	Btuh
Wall total	3068	sqft	9187	Btuh
Door total	143	sqft	2391	Btuh
Ceiling total	2980	sqft	3874	Btuh
Floor total	323	ft	10207	Btuh
Infiltration	199	cfm	8540	Btuh
Subtotal			**47485**	**Btuh**
Duct loss			2374	Btuh
TOTAL HEAT LOSS			**49859**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2980 sqft)

Load component			Load	
Window total	470	sqft	18673	Btuh
Wall total	3068	sqft	5187	Btuh
Door total	143	sqft	1427	Btuh
Ceiling total	2980	sqft	4232	Btuh
Floor total			0	Btuh
Infiltration	174	cfm	3449	Btuh
Internal gain			4800	Btuh
Subtotal(sensible)			**37768**	**Btuh**
Duct gain			3777	Btuh
Total sensible gain			**41544**	**Btuh**
Latent gain(infiltration)			6041	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**7421**	**Btuh**
TOTAL HEAT GAIN			**48965**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.
PREPARED BY:
DATE: 7-21-04

System Sizing Calculations - Summer

Residential Load - Component Details

Lamar & LeeAnn Hires

Lake City, FL 32024-

Project Title:
Hires Residence

Code Only
Professional Version
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 18.0 F 7/21/2004

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, DEF, N, N	N	1.5	7	24.0	0.0	24.0	22	22	528 Btuh
2	2, Clear, DEF, N, N	N	2.5	6	60.0	0.0	60.0	22	22	1320 Btuh
3	2, Clear, DEF, N, N	N	1.5	7	36.0	0.0	36.0	22	22	792 Btuh
4	2, Clear, DEF, N, N	N	1.5	4	36.0	0.0	36.0	22	22	792 Btuh
5	2, Clear, DEF, N, N	W	1.5	7	54.0	0.7	53.3	22	72	3851 Btuh
6	2, Clear, DEF, N, N	SW	1.5	6	15.0	4.6	10.4	22	62	747 Btuh
7	2, Clear, DEF, N, N	S	1.5	6	30.0	30.0	0.0	22	37	660 Btuh
8	2, Clear, DEF, N, N	SE	1.5	6	15.0	4.6	10.4	22	62	747 Btuh
9	2, Clear, DEF, N, N	S	9.5	8	40.0	20.0	20.0	22	37	1180 Btuh
10	2, Clear, DEF, N, N	SW	1.5	8	17.5	3.8	13.7	22	62	933 Btuh
11	2, Clear, DEF, N, N	S	0	0	52.5	0.0	52.5	22	37	1942 Btuh
12	2, Clear, DEF, N, N	SE	1.5	8	17.5	3.8	13.7	22	62	933 Btuh
13	2, Clear, DEF, N, N	S	1.5	7	18.0	18.0	0.0	22	37	396 Btuh
14	2, Clear, DEF, N, N	E	1.5	7	54.0	0.7	53.3	22	72	3851 Btuh
	Window Total				470					18673 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Frame - Exterior	13.0	2852.0	1.7	4962 Btuh
2	Frame - Adjacent	13.0	216.0	1.0	225 Btuh
	Wall Total		3068.0		5187 Btuh

Doors	Type	Area	HTM	Load
1	Wood - Exter	40.0	10.0	399 Btuh
2	Wood - Exter	18.0	10.0	180 Btuh
3	Wood - Exter	45.0	10.0	449 Btuh
4	Wood - Exter	20.0	10.0	200 Btuh
5	Wood - Adjac	20.0	10.0	200 Btuh
	Door Total	143.0		1427 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	2980.0	1.4	4232 Btuh
	Ceiling Total		2980.0		4232 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	323.0 ft(p)	0.0	0 Btuh
	Floor Total		323.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.35	29800	174.2	3449 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			174	3449 Btuh

Internal gain	Occupants	Btuh/occupant		Appliance	Load
	6	X 300	+	3000	4800 Btuh

System Sizing Calculations - Winter

Residential Load - Component Details

Lamar & LeeAnn Hires

Lake City, FL 32024-

Project Title:
Hires Residence

Code Only
Professional Version
Climate: North

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

7/21/2004

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	N	24.0	28.3	679 Btuh
2	2, Clear, Metal, DEF	N	60.0	28.3	1698 Btuh
3	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
4	2, Clear, Metal, DEF	N	36.0	28.3	1019 Btuh
5	2, Clear, Metal, DEF	W	54.0	28.3	1528 Btuh
6	2, Clear, Metal, DEF	SW	15.0	28.3	424 Btuh
7	2, Clear, Metal, DEF	S	30.0	28.3	849 Btuh
8	2, Clear, Metal, DEF	SE	15.0	28.3	424 Btuh
9	2, Clear, Metal, DEF	S	40.0	28.3	1132 Btuh
10	2, Clear, Metal, DEF	SW	17.5	28.3	495 Btuh
11	2, Clear, Metal, DEF	S	52.5	28.3	1486 Btuh
12	2, Clear, Metal, DEF	SE	17.5	28.3	495 Btuh
13	2, Clear, Metal, DEF	S	18.0	28.3	509 Btuh
14	2, Clear, Metal, DEF	E	54.0	28.3	1528 Btuh
	Window Total		470		13287 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	2852	3.1	8841 Btuh
2	Frame - Adjacent	13.0	216	1.6	346 Btuh
	Wall Total		3068		9187 Btuh
Doors	Type		Area X	HTM=	Load
1	Wood - Exter		40	17.9	718 Btuh
2	Wood - Exter		18	17.9	323 Btuh
3	Wood - Exter		45	17.9	807 Btuh
4	Wood - Exter		20	17.9	359 Btuh
5	Wood - Adjac		20	9.2	184 Btuh
	Door Total		143		2391Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	2980	1.3	3874 Btuh
	Ceiling Total		2980		3874Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	323.0 ft(p)	31.6	10207 Btuh
	Floor Total		323		10207 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.40	29800(sqft)	199	8540 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			199	8540 Btuh

Totals for Heating	**Subtotal**	**47485 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**2374 Btuh**
	Total Btuh Loss	**49859 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Lamar & LeeAnn Hires

Lake City, FL 32024-

Project Title:
Hires Residence

Code Only
Professional Version
Climate: North

7/21/2004

Totals for Cooling	**Subtotal**	**37768**	**Btuh**
	Duct gain(using duct multiplier of 0.10)	**3777**	**Btuh**
	Total sensible gain	**41544**	**Btuh**
	Latent infiltration gain (for 51 gr. humidity difference)	**6041**	**Btuh**
	Latent occupant gain (6 people @ 230 Btuh per person)	**1380**	**Btuh**
	Latent other gain	**0**	**Btuh**
	TOTAL GAIN	**48965**	**Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

Manual J Winter Calculations

Residential Load - Component Details (continued)

Lamar & LeeAnn Hires	Project Title: Hires Residence	Code Only Professional Version
Lake City, FL 32024-		Climate: North
		7/21/2004

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 25, Sub: Southpoint, Plat: , Lake City, FL, 32024-** 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	2980.0	20.04	10749.5	Double, Clear	W	1.5	7.0	24.0	36.99	0.94	833.5	
				Double, Clear	W	2.5	6.0	60.0	36.99	0.79	1747.0	
				Double, Clear	W	1.5	7.0	36.0	36.99	0.94	1250.2	
				Double, Clear	W	1.5	4.0	36.0	36.99	0.82	1088.6	
				Double, Clear	S	1.5	7.0	54.0	34.50	0.89	1666.4	
				Double, Clear	SE	1.5	6.0	15.0	40.86	0.88	541.4	
				Double, Clear	E	1.5	6.0	30.0	40.22	0.91	1101.4	
				Double, Clear	NE	1.5	6.0	15.0	28.72	0.92	396.6	
				Double, Clear	E	9.5	8.0	40.0	40.22	0.47	757.8	
				Double, Clear	SE	1.5	8.0	17.5	40.86	0.95	675.8	
				Double, Clear	E	0.0	0.0	52.5	40.22	1.00	2111.7	
				Double, Clear	NE	1.5	8.0	17.5	28.72	0.96	483.4	
				Double, Clear	E	1.5	7.0	18.0	40.22	0.94	679.4	
				Double, Clear	N	1.5	7.0	54.0	19.22	0.96	991.1	
				As-Built Total:				**469.5**			**14324.2**	
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points	
Adjacent	216.0	0.70	151.2	Frame, Wood, Exterior			13.0	2852.0	1.50		4278.0	
Exterior	2852.0	1.70	4848.4	Frame, Wood, Adjacent			13.0	216.0	0.60		129.6	
Base Total:	**3068.0**		**4999.6**	**As-Built Total:**				**3068.0**			**4407.6**	
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points	
Adjacent	20.0	2.40	48.0	Exterior Wood				40.0	6.10		244.0	
Exterior	123.0	6.10	750.3	Exterior Wood				18.0	6.10		109.8	
				Exterior Wood				45.0	6.10		274.5	
				Exterior Wood				20.0	6.10		122.0	
				Adjacent Wood				20.0	2.40		48.0	
Base Total:	**143.0**		**798.3**	**As-Built Total:**				**143.0**			**798.3**	
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points	
Under Attic	2980.0	1.73	5155.4	Under Attic			30.0	2980.0	1.73 X 1.00		5155.4	
Base Total:	**2980.0**		**5155.4**	**As-Built Total:**				**2980.0**			**5155.4**	

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 25, Sub: Southpoint, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT					
FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	=	Points
Slab	323.0(p)	8.9	2874.7	Slab-On-Grade Edge Insulation	0.0	323.0(p	18.80		6072.4
Raised	0.0	0.00	0.0						
Base Total:			**2874.7**	**As-Built Total:**		**323.0**			**6072.4**
INFILTRATION	Area X	BWPM	= Points			Area X	WPM	=	Points
	2980.0	-0.59	-1758.2			2980.0	-0.59		-1758.2
Winter Base Points:			**27132.1**	**Winter As-Built Points:**					**27371.0**

Total Winter Points	X	System Multiplier	=	Heating Points
27132.1		**0.6274**		**17022.7**

Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	=	Heating Points
27371.0		1.000		(1.069 x 1.169 x 0.93)		0.501		1.000		15951.9
27371.0		**1.00**		**1.162**		**0.501**		**1.000**		**15951.9**

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.4

The higher the score, the more efficient the home.

Lamar & LeeAnn Hires, Lot: 25, Sub: Southpoint, Plat: , Lake City, FL, 32024-

1. New construction or existing	New	
2. Single family or multi-family	Single family	
3. Number of units, if multi-family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft²)	2980 ft²	
7. Glass area & type		
a. Clear - single pane	0.0 ft²	
b. Clear - double pane	469.5 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	
d. Tint/other SHGC - double pane	0.0 ft²	
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 323.0(p) ft	
b. N/A		
c. N/A		
9. Wall types		
a. Frame, Wood, Exterior	R=13.0, 2852.0 ft²	
b. Frame, Wood, Adjacent	R=13.0, 216.0 ft²	
c. N/A		
d. N/A		
e. N/A		
10. Ceiling types		
a. Under Attic	R=30.0, 2980.0 ft²	
b. N/A		
c. N/A		
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 168.0 ft	
b. N/A		

12. Cooling systems		
a. Central Unit	Cap: 54.0 kBtu/hr	
	SEER: 10.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 54.0 kBtu/hr	
	HSPF: 6.80	
b. N/A		
c. N/A		
14. Hot water systems		
a. LP Gas	Cap: 40.0 gallons	
	EF: 0.66	
b. LP Gas	Cap: 40.0 gallons	
	EF: 0.66	
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, RB-Attic radiant barrier, 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 v3.2)

STRUCTURAL TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650
TYPE: Twin Aluminum Single Hung Window

Title of Test	Results
Overall Design Pressure	35.0 psf
Operating Force	18 lb max.
Air Infiltration	0.29 cfm/ft^2
Water Resistance	5.25 psf
Structural Test Pressure	70.5 psf

Reference should be made to Report No. 01-36060.02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Scott D. Kramer

Scott D. Kramer, Technician

SDK:nlb/baw

ALLEN H. REEVES
REGISTERED
NO. 19574
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen H. Reeves
28 MARCH 2002

STRUCTURAL TEST REPORT

Rendered to:

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-36060.02
Test Date: 11/04/99
Report Date: 03/26/02
Expiration Date: 11/04/03

Project Summary: Architectural Testing, Inc. (ATI) was contracted to perform tests on a Series/Model 650, twin aluminum single hung window at MI Home Products' test facility in Elizabethville, Pennsylvania. Test specimen description and results are reported herein.

Test Specification The test specimen was evaluated in accordance with the following:

ASTM E 283-91, *Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

ASTM E 330-97, *Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference*

ASTM E 547-96, *Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Differential*

Test Specimen Description:

Series/Model: 650

Type: Twin Aluminum Single Hung Window

Overall Size: 5' 10-1/4" wide by 5' 0" high

Active Size (2): 2' 8-3/4" wide by 2' 6-1/4" high

Fixed Daylight Opening Size (2): 2' 6- 1/4" wide by 2' 3" high

Screen Size (2): 2' 7-3/4" wide by 2' 4-1/4" high

ALLEN N. REEVES
CERTIFICATE
NO. 19284
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Allen N. Reeves
28 MARCH 2002

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Test Specimen Description: (Continued)

Finish: All aluminum was painted white.

Glazing Details: Both the active sash and fixed lites utilized 5/8" thick insulating glass fabricated from two sheets of 3/32" thick clear annealed glass and a desiccant filled metal spacer system. The active sash were channel glazed with a flexible wedge gasket. The fixed lites were interior glazed, back bedded with single sided adhesive foam tape and held-in-place with PVC snap-in glazing beads.

Weatherstripping:

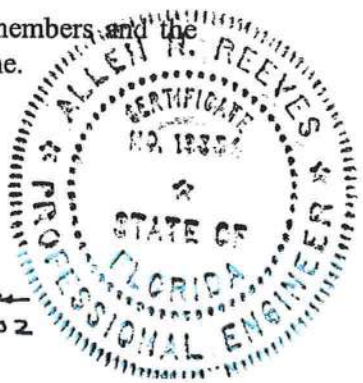
Description	Quantity	Location
0.270" backed by 0.190" high polypile with center fin	1 Row	Fixed meeting stile
3/8" high vinyl wrapped foam bulb	1 Row	Bottom rail
0.187" backed by 0.250" high polypile with center fin	2 Rows	Stiles
1/4" high polypile dust plug	2 Rows	Ends of bottom rail, top of each stile

Frame Construction: Frame was constructed of extruded aluminum members and all corners were coped, butted, sealed, and fastened with two screws per corner. The fixed meeting rail was attached to the jambs with a plastic clip and two screws per end.

Mullion Construction: The mullion was constructed of an extruded aluminum member. It was fastened to the head and sill with four screws per end. All screw heads were sealed as well as the butt joint at the sill.

Sash Construction: The sash were constructed of extruded aluminum members and all corners were coped, butted, and fastened with one screw per corner.

Screen Construction: The screen was constructed of rolled aluminum members and the corners were keyed. The screen mesh was held-in-place with a flexible spline.



Allen N. Reeves
28 MARCH 2002

Test Specimen Description: (Continued)

Hardware:

Description	Quantity	Location
Plastic tilt latches	4	Ends of interior meeting rail
Metal pivot bars	4	Ends of the bottom rails
Metal sweep lock	2	Midspan of interior meeting rail
Metal keeper	2	Midspan of fixed meeting rail
Sash stops	4	One per jamb
Block and tackle balance system	4	One per jamb
Spring loaded latch pins	2	6" from ends of screen top rail

Drainage:

Description	Quantity	Location
Sloped sill		Sill
1/4" wide by 3/16" high weepslot	4	Ends of exterior vertical sill leg

Installation: The test unit was installed into the 2" x 8" nominal Spruce-Pine-Fir #2 wood test buck utilizing the integral nailing fin and 1" roofing nails. Five per top, bottom, and sides of the nail fin were evenly spaced. The nail fin was bedded in a silicone sealant.

Allen N. Reeves
28 MARCH 2002

Test Results

The results are tabulated as follows:

Title of Test - Test Method	Results	Allowed
Air Infiltration per ASTM E 283-91		
@ 0.56 psf (15 mph)	0.15 cfm/ft^2	0.30 cfm/ft^2
@ 1.57 psf (25 mph)	0.29 cfm/ft^2	0.30 cfm/ft^2
Water Resistance per ASTM E 547-96 (with and without screen)		
WTP = 5.25 psf	No leakage	No leakage
Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 33 seconds)		
@ 47.0 psf (exterior)	0.010"	0.24" max.
@ 47.0 psf (interior)	0.015"	0.24" max.

Note: No end measurements were taken on the member measured. The measurements stated above include displacement as well as bending. Only permanent sets were recorded, not deflection measurements. This statement applies to all uniform load tests performed.

Uniform Load Structural per ASTM E 330-97 (Measurements reported were taken on the meeting rail) (load held for 10 seconds)		
@ 70.5 psf (exterior)	0.060"	0.24" max
@ 70.5 psf (interior)	0.040"	0.24" max

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Scott D. Kramer
Technician

SDK:nlb/baw
01-36060.02

Allen N. Reeves, P.E.
Director – Engineering Services
28 MARCH 2002

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 17-4S-16-03051-125 **Building permit No.** 000022210

Use Classification SFD,UTILITY **Fire:** 28.35

Permit Holder THOMPSON CONSTRUCTION **Waste:** 61.25

Owner of Building LAMAR & LEANN HIRES **Total:** 89.60

Location: 1000 SW LEGION DRIVE(SOUTH POINTE,LOT 25)

Date: 04/13/2005

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

22210

KEEN ENGINEERING & SURVEYING, INC.
9263 COUNTY ROAD 417
LIVE OAK, FLORIDA 32060
386/362-4787

September 14, 2004

Columbia County Building Department
135 NE Hernando Avenue
Lake City, FL 32055

RE: LAMAR & LEE ANN HIRES RESIDENCE

I have inspected the Lamar & Lee Ann Hires foundation on Lot 25 of South Pointe Subdivision in Columbia County on September 13, 2004. The finish floor elevation of the living area of the home is approximately 16 inches above the highest adjacent grade in the front (paved road side) and approximately 32 inches above the highest adjacent grade in the back. The garage floor elevation will be 10-12 inches above adjacent grade.

THE FLOOR LEVEL OF THE RESIDENCE WILL NOT FLOOD.

If additional information is required, please advise.

Curtis E. Keen

Curtis E. Keen, PE #23836
EB #3761

Notice of Treatment

Applicator Florida Pest Control & Chemical Co. 11114

Address 536 SE Baya Ave

City L. C. **Phone** 752-1723

Site Location **Subdivision** Southpointe

Lot# 25 **Block#** _____ **Permit#** 22210

Address 1000 Legion Drive

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body				
Patio/s #				
Stoop/s #				
Porch/s # 1	9-16-04	920	20	Gunny F254
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s				
GARAGE (Other)	9-16-04	920	60	Gunny F254

Name of Product Applied Dursban TC .05 %

Remarks Exterior not Finished

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

Notice of Treatment

Applicator Florida Pest Control & Chemical Co. 11114

Address

City Lake City **Phone** 752-1703

Site Location **Subdivision** Southpointe

Lot# 25 **Block#** **Permit#** 22210

Address 1000 Legion Drive L.C.

AREAS TREATED

Area Treated	Date	Time	Gal.	Print Technician's Name
Main Body	09/13/04	1300	443	Gunny F254
Patio/s #				
Stoop/s #				
Porch/s #				
Brick Veneer				
Extension Walls				
A/C Pad				
Walk/s #				
Exterior of Foundation				
Driveway Apron				
Out Building				
Tub Trap/s				
(Other)				

Name of Product Applied Dursban TC .25 %

Remarks exterior not finished

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