CK# 4045

Columbia County Building Permit Application

25439

For Office Use Only Application # 0701-69 Date Received 1/18/07 By LH Permit # OK JH 1-19-07

Application Approved by - Zoning Official BLK Date 1.01.07 Plans Examiner _____ Date _____

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

Comments If existing mh on Property, must be removed 45 day after issuance of C.O.

☑ NOC ☑ EH ☐ Deed or PA ☑ Site Plan ☐ State Road Info ☐ Parent Parcel # ☐ Development Permit

Fax 755-2422

Name Authorized Person Signing Permit Kevin Bodenbaugh Phone 792-4061

Address PO Box 1416 Live Oak FL 32064

Owners Name Kenneth D Land, Angela Land Phone 344-1122

911 Address 236 NW Landsend CT Lake City, FL 32055

Contractors Name Kevin Bodenbaugh / Alums Level Const. Phone 792-4061

Address PO Box 1416 Live Oak, FL 32064

Fee Simple Owner Name & Address N/A

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address William Kalker 33 Rockwood LN. Monroe, CT 06468

Mortgage Lenders Name & Address Columbia Bank 4785 W. US Highway 90, Lake City FL 32055

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

Property ID Number 23-3S-15-00186-003 HY Estimated Cost of Construction 145,000

Subdivision Name _____ Lot ____ Block ____ Unit ____ Phase ____

Driving Directions 90 west past county line bar. Appr. 6/10 past bar Turn (R) on Lands End Court. House is at End

Type of Construction MODULAR Number of Existing Dwellings on Property 0

Total Acreage 15.04 Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 70 Side 109 Side 36 Rear 95

Total Building Height 18' Number of Stories 1 Heated Floor Area 2248 Roof Pitch 4/12

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

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

Owner Builder or Authorized Person by Notarized Letter

STATE OF FLORIDA
COUNTY OF COLUMBIA

NICOLE COLEMAN
MY COMMISSION # DD 326664
EXPIRES: June 7, 2008
Bonded Thru Notary Public Underwriters

Sworn to (or affirmed) and subscribed before me this 16 day of January 2007.

Personally known X or Produced Identification ____

Kevin Bodenbaugh
Contractor Signature
Contractors License Number RC0067079
Competency Card Number _____
NOTARY STAMP/SEAL

Nicole Coleman
Notary Signature

(Revised Sept. 2006)

Rec. No. 50
Dt. 233.80

THIS INSTRUMENT WAS PREPARED BY:

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

01-1171P

FILED AND RECORDED IN PUBLIC RECORDS OF COLUMBIA COUNTY, FL
'01 JUN 22 AM 11:07

RETURN TO:

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

File No. 01-316

Grantee's S.S. No. [redacted]

Property Appraiser's
Parcel Identification No.
Part of Parcel No.
23-3S-[redacted]

Documentary Stamp 233.80
Intangible Tax
P. DeWitt Cason
Clerk of Court
By BJO D.C.

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

WARRANTY DEED

THIS INDENTURE, made this 21st day of June 2001, BETWEEN J. E. JESSUP and his wife, EVELYN JESSUP, whose post office address is Route 17, Box 1898, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantor*, and KENNETH D. LAND, whose post office address is Route 17, Box 1838, Lake City, Florida 32055, of the County of Columbia, State of Florida, grantee*.

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

TOWNSHIP 3 SOUTH - RANGE 15 EAST

SECTION 23: The East 497.00 feet of the West 994.00 feet of the Southwest 1/4 of the Southwest 1/4. COLUMBIA COUNTY, FLORIDA.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

and said grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

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

BK 0929 PG 1667

OFFICIAL RECORDS

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

Signed, sealed and delivered
in our presence:

(First Witness)
Terry McDavid
Printed Name

(Second Witness)
Myrtle Ann McElroy
Printed Name

J. E. Jessup (SEAL)

Evelyn Jessup (SEAL)

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 21st day of June 2001, by J. E. JESSUP and his wife, EVELYN JESSUP, who are personally known to me and who did not take an oath.

Notary Public
My Commission Expires:

BK 0929 PG 1668

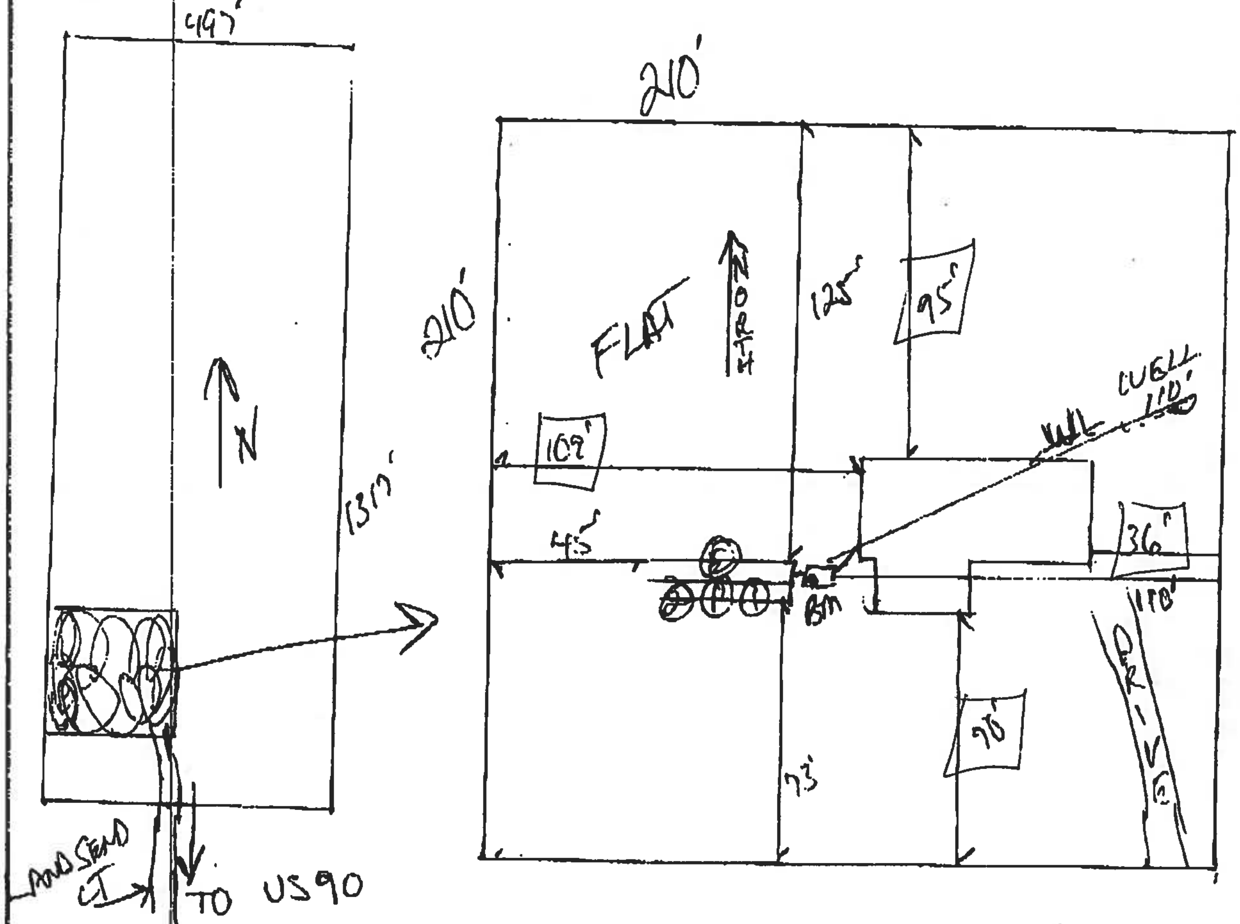
OFFICIAL RECORDS

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

Permit Application Number 07-0004-M

PART II - SITEPLAN - Red Land

Scale: 1 inch = 50 feet.



Notes: 1 of 15 Acres

Site Plan submitted by: [signature]

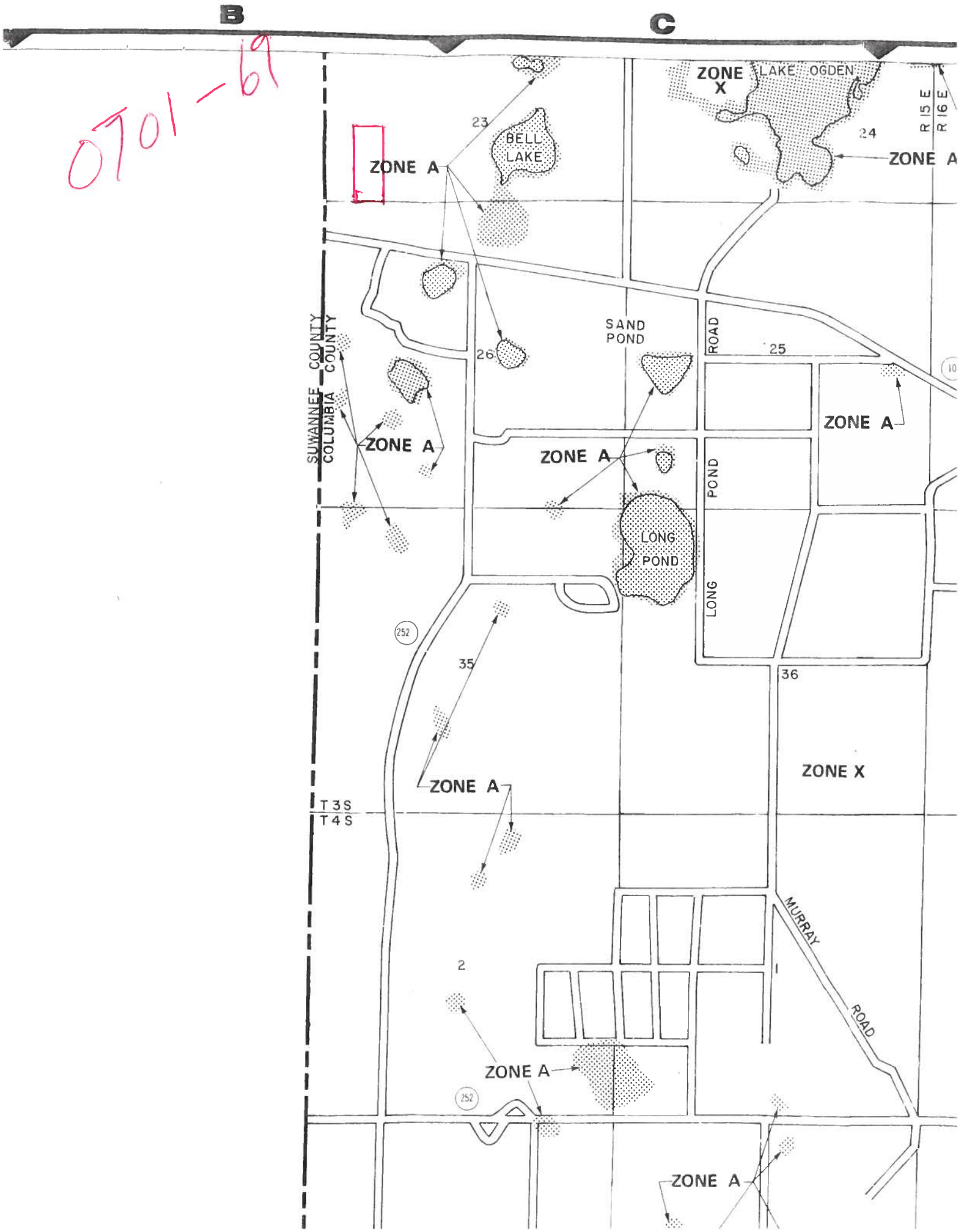
MASTER CONTRACTOR

Plan Approved ✓ Not Approved_____ Date 1-12-07

By [signature] Columbia County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

DH 4015, 10/96 (Replaces HRS-H Form 4016 which may be used)
(Stock Number: 5744-002-4015-6)


B
C
0701-69
ZONE X
LAKE OGDEN
R15E
R16E
23
24
BELL LAKE
ZONE A
ZONE A
SUWANNEE COUNTY
COLUMBIA COUNTY
SAND POND
ROAD
26
25
ZONE A
ZONE A
ZONE A
POND
LONG POND
LONG
252
35
36
ZONE X
ZONE A
T3S
T4S
MURRAY ROAD
2
ZONE A
252
ZONE A

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	TH-5FL	Builder:	Plumb Level
Address:	TH-5FL NORTH	Permitting Office:	Columbia
City, State:	,	Permit Number:	25439
Owner:		Jurisdiction Number:	221000
Climate Zone:	North		

APPROVED
HILBORN, WERNER, CARTER & ASSOC
JAN 12 2007

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)	2248 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. Description (Dble, U=0.5) Area 90.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 247.3 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=10.0, 2248.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=19.0, 1555.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2248.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft	
b.	N/A		

SEE MANUFACTURER'S CONTRACT WITH FLORIDA DCA

12.	Cooling systems		
a.	Central Unit	Cap: 42.0 kBtu/hr SEER: 14.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 41.0 kBtu/hr HSPF: 7.70	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 1.0 gallons EF: 0.97	
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)	PT,	

Glass/Floor Area: 0.11

Total as-built points: 25557
Total base points: 28092

PASS

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

PREPARED BY: _____

DATE: 1/7/07

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.

Date 1-12-07 Plan No. _____

Approved By SCOTT S. FRANCIS

BUILDING OFFICIAL: _____

DATE: 1-12-07

Modular Building Plans Examiner
Florida License No. [illegible]

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** 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	2248.0	18.59	7522.0	1.Double,U=0.48,Clear	E	0.0	0.0	90.0	43.92	1.00	3952.0
				2.Double,U=0.48,Clear	W	0.0	0.0	45.0	40.43	1.00	1819.0
				3.Double, Clear	W	0.0	0.0	40.0	38.52	1.00	1540.0
				4.Double, Clear	W	0.0	0.0	12.3	38.52	1.00	471.0
				5.Double,U=0.48,Clear	S	0.0	0.0	30.0	37.73	1.00	1131.0
				6.Double,U=0.48,Clear	N	0.0	0.0	30.0	21.25	1.00	637.0
				As-Built Total:				**247.3**			**9550.0**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			19.0	1555.0	0.90		1399.5
Exterior	1555.0	1.70	2643.5								
Base Total:	**1555.0**		**2643.5**	**As-Built Total:**				**1555.0**			**1399.5**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	4.10		164.0
Exterior	40.0	6.10	244.0								
Base Total:	**40.0**		**244.0**	**As-Built Total:**				**40.0**			**164.0**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2248.0	1.73	3889.0	1. Under Attic			30.0	2248.0	1.73 X 1.00		3889.0
Base Total:	**2248.0**		**3889.0**	**As-Built Total:**				**2248.0**			**3889.0**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			10.0	2248.0	-2.00		-4496.0
Raised	2248.0	-3.99	-8969.5								
Base Total:			**-8969.5**	**As-Built Total:**				**2248.0**			**-4496.0**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2248.0	10.21	22952.1					2248.0	10.21		22952.1

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 28281.1			**Summer As-Built Points:**					**33458.6**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 42000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			33459	1.00	(1.09 x 1.147 x 1.11)	0.244	0.950	10753.6
28281.1	**0.3250**	**9191.4**	**33458.6**	**1.00**	**1.388**	**0.244**	**0.950**	**10753.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** 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	2248.0	20.17	8162.0	1.Double,U=0.48,Clear	E	0.0	0.0	90.0	7.72	1.00	694.0	
				2.Double,U=0.48,Clear	W	0.0	0.0	45.0	9.51	1.00	428.0	
				3.Double, Clear	W	0.0	0.0	40.0	20.73	1.00	829.0	
				4.Double, Clear	W	0.0	0.0	12.3	20.73	1.00	253.0	
				5.Double,U=0.48,Clear	S	0.0	0.0	30.0	2.29	1.00	68.0	
				6.Double,U=0.48,Clear	N	0.0	0.0	30.0	13.32	1.00	399.0	
				As-Built Total:				**247.3**			**2671.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			19.0	1555.0	2.20		3421.0	
Exterior	1555.0	3.70	5753.5									
Base Total:	**1555.0**		**5753.5**	**As-Built Total:**				**1555.0**			**3421.0**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	8.40		336.0	
Exterior	40.0	12.30	492.0									
Base Total:	**40.0**		**492.0**	**As-Built Total:**				**40.0**			**336.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2248.0	2.05	4608.4	1. Under Attic			30.0	2248.0	2.05 X	1.00	4608.4	
Base Total:	**2248.0**		**4608.4**	**As-Built Total:**				**2248.0**			**4608.4**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			10.0	2248.0	1.30		2922.4	
Raised	2248.0	0.96	2158.1									
Base Total:			**2158.1**	**As-Built Total:**				**2248.0**			**2922.4**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2248.0	-0.59	-1326.3					2248.0	-0.59		-1326.3	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**19847.7**	**Winter As-Built Points:**					**12632.5**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 41000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			12632.5	1.000	(1.069 x 1.169 x 1.10)	0.443	0.950	7305.7
19847.7	**0.5540**	**10995.6**	**12632.5**	**1.00**	**1.375**	**0.443**	**0.950**	**7305.7**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** 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		2635.00	7905.0	1.0	0.97	3		1.00	2499.18	1.00	7497.5
				As-Built Total:							**7497.5**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	Heating Points	Hot Water Points	Total Points	Cooling Points	Heating Points	Hot Water Points	Total Points
9191	**10996**	**7905**	**28092**	**10754**	**7306**	**7498**	**25557**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL NORTH, , ,** 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 612.1.ABC.3.2. Switch or clearly marked cir 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* = 86.5

The higher the score, the more efficient the home.

, TH-5FL 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	3			
5.	Is this a worst case?	Yes			
6.	Conditioned floor area (ft²)	2248 ft²			
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)				
a.	U-factor:	Description	Area		
	(or Single or Double DEFAULT)	7a. (Dble, U=0.5)	90.0 ft²		
b.	SHGC:				
	(or Clear or Tint DEFAULT)	7b. (Clear)	247.3 ft²		
8.	Floor types				
a.	Raised Wood, Stem Wall	R=10.0, 2248.0ft²			
b.	N/A				
c.	N/A				
9.	Wall types				
a.	Frame, Wood, Exterior	R=19.0, 1555.0 ft²			
b.	N/A				
c.	N/A				
d.	N/A				
e.	N/A				
10.	Ceiling types				
a.	Under Attic	R=30.0, 2248.0 ft²			
b.	N/A				
c.	N/A				
11.	Ducts				
a.	Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft			
b.	N/A				
12.	Cooling systems				
a.	Central Unit			Cap: 42.0 kBtu/hr	
				SEER: 14.00	
b.	N/A				
c.	N/A				
13.	Heating systems				
a.	Electric Heat Pump			Cap: 41.0 kBtu/hr	
				HSPF: 7.70	
b.	N/A				
c.	N/A				
14.	Hot water systems				
a.	Electric Resistance			Cap: 1.0 gallons	
				EF: 0.97	
b.	N/A				
c.	Conservation credits				
	(HR-Heat recovery, Solar DHP-Dedicated heat pump)				
15.	HVAC credits			PT,	
	(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.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

FORM 600A-2004R EnergyGauge® 4.5

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	TH-5FL	Builder:	
Address:	TH-5FL CENTRAL	Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	Central		

APPROVED
JAN 12 2007
AILBORN, WERNER, CARTER & ASSOC.

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)	2248 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
a.	U-factor: (or Single or Double DEFAULT)	7a. (Dble, U=0.5) 90.0 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 247.3 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=10.0, 2248.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=19.0, 1555.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 2248.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft	
b.	N/A		
12.	Cooling systems		
a.	Central Unit	Cap: 42.0 kBtu/hr SEER: 14.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 41.0 kBtu/hr HSPF: 7.70	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 1.0 gallons EF: 0.97	
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)	PT,	

SEE MANUFACTURER'S CONTRACT WITH FLORIDA DCA.

Glass/Floor Area: 0.11

Total as-built points: 24626

Total base points: 25187

PASS

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

PREPARED BY: _____

DATE: 1/7/07

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 *

Date: 1-12-07 Plan No. _____

Approved By SCOTT S. FRANCIS

BUILDING OFFICIAL: 2198-0014F

DATE: _____

Building Plans Examiner
Florida License No. SMP-42

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** 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	2248.0	24.35	9853.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	51.98	1.00	4678.0
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	57.38	1.00	2581.0
				3.Double, Clear	E	0.0	0.0	40.0	55.69	1.00	2227.0
				4.Double, Clear	E	0.0	0.0	12.3	55.69	1.00	682.0
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	28.23	1.00	846.0
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	43.70	1.00	1310.0
				As-Built Total:				**247.3**			**12324.0**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			19.0	1555.0	1.00		1555.0
Exterior	1555.0	1.90	2954.5								
Base Total:	**1555.0**		**2954.5**	**As-Built Total:**				**1555.0**			**1555.0**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	4.80		192.0
Exterior	40.0	4.80	192.0								
Base Total:	**40.0**		**192.0**	**As-Built Total:**				**40.0**			**192.0**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2248.0	2.13	4788.2	1. Under Attic			30.0	2248.0	2.13 X 1.00		4788.2
Base Total:	**2248.0**		**4788.2**	**As-Built Total:**				**2248.0**			**4788.2**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			10.0	2248.0	-2.35		-5282.8
Raised	2248.0	-3.43	-7710.6								
Base Total:			**-7710.6**	**As-Built Total:**				**2248.0**			**-5282.8**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2248.0	14.31	32168.9					2248.0	14.31		32168.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 42246.0			**Summer As-Built Points:**					**45745.3**
Total Summer Points	X System Multiplier	= Cooling Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
			(sys 1: Central Unit 42000btuh ,SEER/EFF(14.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			45745	1.00	(1.09 x 1.150 x 1.10)	0.244	0.950	14555.2
42246.0	**0.3250**	**13729.9**	**45745.3**	**1.00**	**1.375**	**0.244**	**0.950**	**14555.2**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** 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	2248.0	9.11	3686.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	4.66	1.00	419.0	
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	3.98	1.00	178.0	
				3.Double, Clear	E	0.0	0.0	40.0	8.82	1.00	352.0	
				4.Double, Clear	E	0.0	0.0	12.3	8.82	1.00	108.0	
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	6.03	1.00	180.0	
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	1.96	1.00	58.0	
				As-Built Total:				**247.3**			**1295.0**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1. Frame, Wood, Exterior			19.0	1555.0	1.10		1710.5	
Exterior	1555.0	2.00	3110.0									
Base Total:	**1555.0**		**3110.0**	**As-Built Total:**				**1555.0**			**1710.5**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	5.10		204.0	
Exterior	40.0	5.10	204.0									
Base Total:	**40.0**		**204.0**	**As-Built Total:**				**40.0**			**204.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2248.0	0.64	1438.7	1. Under Attic			30.0	2248.0	0.64 X 1.00		1438.7	
Base Total:	**2248.0**		**1438.7**	**As-Built Total:**				**2248.0**			**1438.7**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	1. Raised Wood, Stem Wall			10.0	2248.0	0.55		1236.4	
Raised	2248.0	-0.20	-449.6									
Base Total:			**-449.6**	**As-Built Total:**				**2248.0**			**1236.4**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2248.0	-0.28	-629.4					2248.0	-0.28		-629.4	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**7359.7**	**Winter As-Built Points:**					**5255.2**
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
			(sys 1: Electric Heat Pump 41000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
7359.7	0.5540	4077.3	5255.2	1.00	1.388	0.443	0.950	3071.5

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** 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		2460.00	7380.0	1.0	0.97	3	1.00	2333.20	1.00	6999.6	
				As-Built Total:						**6999.6**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
13730	**4077**	**7380**	**25187**	**14555**	**3072**	**7000**	**24626**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL CENTRAL, , ,** 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 612.1.ABC.3.2. Switch or clearly marked cir 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* = 86.9

The higher the score, the more efficient the home.

, TH-5FL CENTRAL, , ,

1.	New construction or existing	New		12.	Cooling systems
2.	Single family or multi-family	Single family		a.	Central Unit	Cap: 42.0 kBtu/hr
3.	Number of units, if multi-family	1				SEER: 14.00
4.	Number of Bedrooms	3		b.	N/A	
5.	Is this a worst case?	Yes				
6.	Conditioned floor area (ft²)	2248 ft²		c.	N/A	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)					
a.	U-factor:	Description Area		13.	Heating systems	
	(or Single or Double DEFAULT)	7a. (Dble, U=0.5) 90.0 ft²		a.	Electric Heat Pump	Cap: 41.0 kBtu/hr
b.	SHGC:					HSPF: 7.70
	(or Clear or Tint DEFAULT)	7b. (Clear) 247.3 ft²		b.	N/A	
8.	Floor types					
a.	Raised Wood, Stem Wall	R=10.0, 2248.0ft²		c.	N/A	
b.	N/A					
c.	N/A			14.	Hot water systems	
9.	Wall types			a.	Electric Resistance	Cap: 1.0 gallons
a.	Frame, Wood, Exterior	R=19.0, 1555.0 ft²				EF: 0.97
b.	N/A			b.	N/A	
c.	N/A					
d.	N/A			c.	Conservation credits	
e.	N/A				(HR-Heat recovery, Solar	
10.	Ceiling types				DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 2248.0 ft²		15.	HVAC credits	PT,
b.	N/A				(CF-Ceiling fan, CV-Cross ventilation,	
c.	N/A				HF-Whole house fan,	
11.	Ducts				PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 20.0 ft			MZ-C-Multizone cooling,	
b.	N/A				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.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

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 23-3S-15-00186-003 **Building permit No.** 000025439

Use Classification MODULAR,UTILITY **Fire:** 0.00

Permit Holder KEVIN BEDENBAUGH **Waste:**

Owner of Building KENNETH & ANGELA LAND **Total:** 0.00

Location: 236 NW LANDSEND COURT, LAKE CITY, FL

Date: 03/06/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)