DATE 12/28/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025575

APPLICANT KEVIN BEDENBAUGH PHONE 386 792-4061

ADDRESS P.O. BOX 1416 LIVE OAK FL 32064

OWNER MARY LYON PHONE 755-0502

ADDRESS 256 SW ETERNAL COURT LAKE CITY FL 32025

CONTRACTOR PLUMB LEVEL CONST. PHONE 386 792-4061

LOCATION OF PROPERTY 47S, TR ON WINGATE, TR ON ETERNAL COURT, 1ST LOT ON RIGHT AT SHED

TYPE DEVELOPMENT MODULAR ESTIMATED COST OF CONSTRUCTION 0.00

HEATED FLOOR AREA _____ TOTAL AREA _____ HEIGHT _____ STORIES 1

FOUNDATION _____ WALLS _____ ROOF PITCH _____ FLOOR _____

LAND USE & ZONING A-3 MAX. HEIGHT _____

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 10-5S-16-03509-001 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES _____

_____	_____	RB0066597	Kevin Bedenbaugh	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	07-0025-N	BK	JH	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 2978

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 $ 0.00 CERTIFICATION FEE $ 0.00 SURCHARGE FEE $ 0.00

MISC. FEES $ 200.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $ _____

FLOOD DEVELOPMENT FEE $ _____ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ _____ **TOTAL FEE** 275.00

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.

THIS INSTRUMENT WAS PREPARED BY:
FIRST FEDERAL SAVINGS BANK OF FLORIDA
4705 WEST U.S. HIGHWAY 90
P.O. BOX 2029
LAKE CITY, FLORIDA 32056

CLERK CIRCUIT COURT COLUMBIA COUNTY, FLORIDA

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 Deputy Clerk
Date 2-16-2007

PERMIT NO._____ TAX FOLIO NO. R03509-001

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF Columbia

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

1. Description of property: Single family home Lot 12 Pecan Acres com at corner Part of Sec 10 T5S R16E
2. General description of improvement: **Construction of Dwelling**
3. Owner information:
   a. Name and address: Collis V Lyons Jr and Mary E Lyons
   b. Interest in property: **Fee Simple**
   c. Name and address of fee simple title holder (if other than Owner): **NONE**
4. Contractor (name and address): C & G Homes US 90 W Lake City, FL 32055
5. Surety:
   a. Name and address: N/A
   b. Amount of bond: N/A

Inst:2007003934 Date:02/16/2007 Time:13:05
DC,P.DeWitt Cason,Columbia County B:1111 P:247

6. Lender: **FIRST FEDERAL SAVINGS BANK OF FLORIDA**
   4705 WEST U.S. HIGHWAY 90
   P. O. BOX 2029
   LAKE CITY, FLORIDA 32056
7. Persons within the State of Florida designated by Owner upon whom notices or other document may be served as provided by Section 713.13 (1) (a) 7., Florida Statutes: NONE
8. In addition to himself, Owner designates **PAULA HACKER of FIRST FEDERAL SAVINGS BANK OF FLORIDA, 4705 West U.S. Highway 90 / P. O. Box 2029, Lake City, Florida 32056** to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) (b), Florida Statutes.
9. Expiration date of notice of commencement (the expiration date is 1 year from the date of recording unless a different date is specified).

Collis V. Lyons Jr
Borrower Name

Mary E. Lyons
Co-Borrower Name

The foregoing instrument was acknowledged before me this 13th day of February, 2007, by Collis V and Mary E Lyons, who is personally known to me or who has produced driver's license for identification.

Marie Crawford
Notary Public
My Commission Expires:

NOTARY PUBLIC-STATE OF FLORIDA
Marie Crawford
Commission # DD533398
Expires: MAR. 26, 2010
Bonded Thru Atlantic Bonding Co., Inc.

Columbia County Building Permit Application

For Office Use Only Application # 0702-52 Date Received 2/19 By JW Permit # 25575

Application Approved by - Zoning Official BLK Date 27.02.07 Plans Examiner OK JTH Date 2-23-07

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

Comments ~~[illegible]~~

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

Fax 755-2422

Name Authorized Person Signing Permit Kevin Bedenbaugh Phone 386-792-4061

Address PO Box ~~[illegible]~~ 1416 Live Oak FL 32064

Owners Name C. Vance Lyons & Mary Lyons Phone 365-2262

911 Address 256 SW Eternal CT Lake City FL 32025

Contractors Name Plumb Level Const. / Kevin Bedenbaugh Phone 792-4061

Address PO Box 1416 Live Oak FL 32064

Fee Simple Owner Name & Address First Federal 4705 West US Hwy 90 PO Box 2029 Lake City 3205[illegible]

Bonding Co. Name & Address

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

Mortgage Lenders Name & Address First Federal

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

Property ID Number 10-5S-16-03509-001 Estimated Cost of Construction 165,000

Subdivision Name Pecan Acres Lot ____ Block ____ Unit ____ Phase ____

Driving Directions Hwy 47 South to Columbia City, Turn (R) on Wingate Rd, will turn into Dirt Rd. When It curves Back to the (Left) Eternal CT. will Be on (RT.) Eternal CT will Dead End Into the Property

Type of Construction Modular Number of Existing Dwellings on Property 0

Total Acreage 1.540 Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or (Have an Existing Drive)

Actual Distance of Structure from Property Lines - Front 200 Side 80 Side 65 Rear 65

Total Building Height 17' Number of Stories 1 Heated Floor Area 2248 (Total 2248) Roof Pitch 6/12.

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

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

Kevin Bedenbaugh 4-17-07
Contractor Signature
Contractors License Number RB0066597
Competency Card Number
NOTARY STAMP/SEAL

Notary Public State of Florida
Judi M [illegible]
My Commission DD477506
Expires [illegible]

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me

this 19 day of February 2007.

Personally known____ or Produced Identification ✓

Notary Signature

(Revised Sept. 2006)

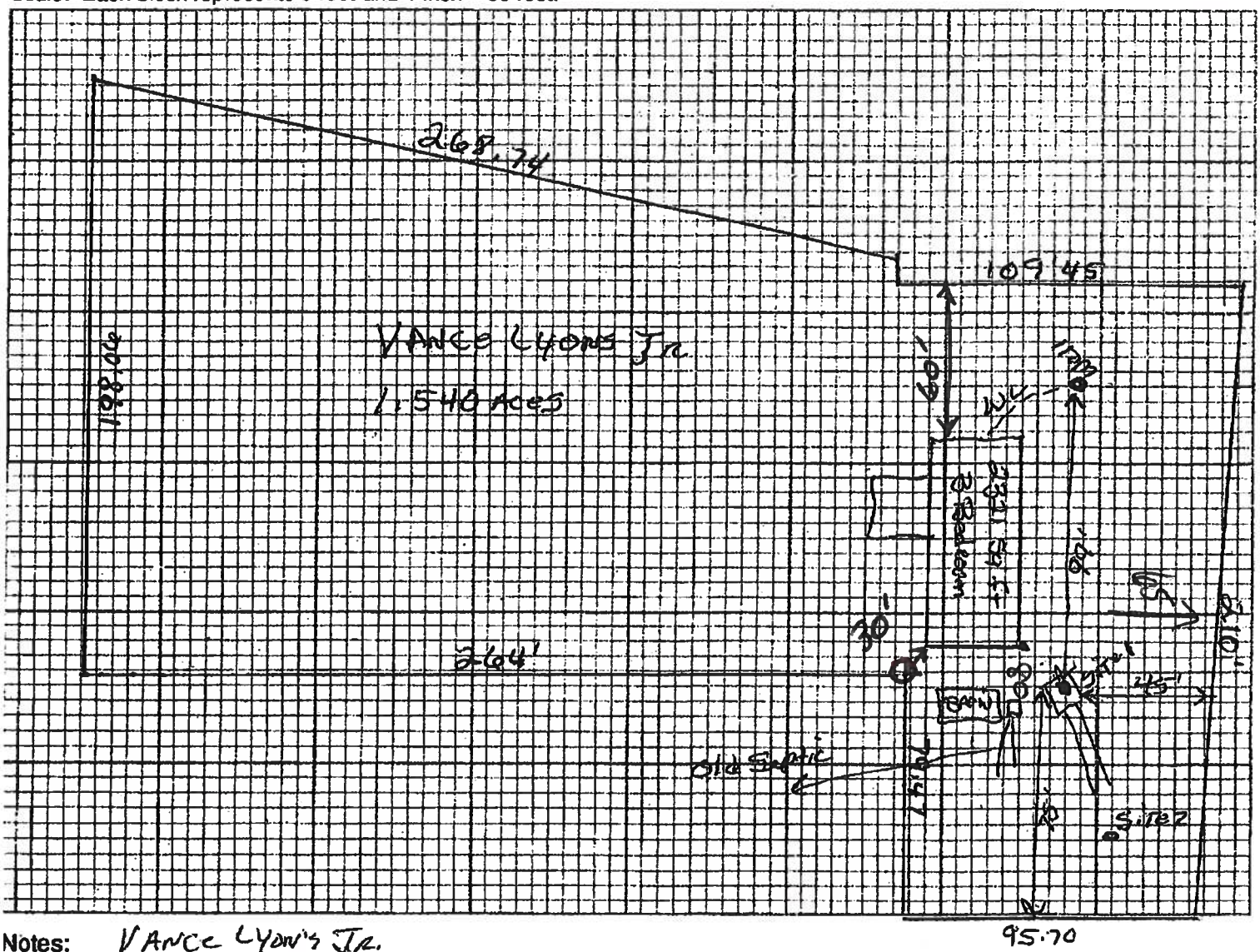
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-0025N

PART II - SITE PLAN

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



Notes: VANCE LYONS JR.
Old Septic TO Be ABANDONED
WHEN NEW TANK IS INSTALLED

Site Plan submitted by: Robert W Ford Agent
Signature Title

Plan Approved X APPROVED Not Approved ____ Date 1/10/07

By [signature] Columbia CHD County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

WARRANTY DEED
INDIVID. TO INDIVID.

RAMCO FORM 01

Name: MARY LYONS
Address: ROUTE 29 BOX 2423
LAKE CITY, FL 32024

This Instrument Prepared by
Name: MARY LYONS
Address: ROUTE 29 BOX 2423
LAKE CITY, FL 32024

Property Appraisers Parcel Identification
Folio Number(s): PART OF R03509-000
Grantee(s) S.S. #(s): 264-31-4394
262-17-3080

Inst:2001020689 Date:10/31/2001 Time:14:04:17
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:938 P:2240

Post-it® Fax Note 7671	Date	# of pages ▶ 3
To Mike Jr	From Mary Lyons	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 752-2853	Fax #	

SPACE ABOVE THIS LINE FOR PROCESSING DATA — SPACE ABOVE THIS LINE FOR RECORDING DATA

This Warranty Deed, *Made the* 31ST *day of* OCTOBER, 2001, *by* LAMAR H. LYONS AND IVA B. LYONS (HIS WIFE) AND C. VANCE LYONS AND MARY H. LYONS (HIS WIFE) *hereinafter called the Grantor, to* C. VANCE LYONS AND MARY H. LYONS, HUSBAND AND WIFE *whose post office address is* ROUTE 29 BOX 2423, LAKE CITY, FL 32024 *hereinafter called the Grantee.*

(Wherever 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, wherever the context so admits or requires.)

Witnesseth, *That the Grantor, for and in consideration of the sum of $* 10.00 *and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee all that certain land, situate in* COLUMBIA *County, State of* FLORIDA, *viz:*

SEE EXHIBIT "A"

THIS PROPERTY IS THE HOMESTEAD OF THE GRANTORS.

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 *the Grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land, and hereby warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 19* 2000.

In Witness Whereof, *the said Grantor has signed and sealed these presents the day and year first above written.*

Signed, sealed and delivered in the presence of:

[signature]
Witness Signature (as to first Grantor)
LISA HICKS
Printed Name
[signature]
Witness Signature (as to first Grantor)
CANDY MADDALINO
Printed Name

[signature]
Grantor Signature
LAMAR H. LYONS
Printed Name
ROUTE 29 BOX 2423
LAKE CITY, FL 32024

[signature]
Witness Signature (as to Co-Grantor, if any)
LISA HICKS
Printed Name
[signature]
Witness Signature (as to Co-Grantor, if any)
CANDY MADDALINO
Printed Name

[signature]
Co-Grantor Signature, (if any)
IVA B. LYONS
Printed Name
ROUTE 29 BOX 2423
LAKE CITY, FL 32024

STATE OF FLORIDA)
COUNTY OF COLUMBIA)

I hereby Certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgments, personally appeared LAMAR H. LYONS AND IVA B. LYONS known to me to be the person S described in and who executed the foregoing instrument, who acknowledged before me that THEY executed the same, and an oath was not taken. (Check one:) ☑ Said person(s) is/are personally known to me. ☐ Said person(s) provided the following type of identification: ______

NOTARY RUBBER STAMP SEAL

CANDY ANN MADDALINO
MY COMMISSION # CC [illegible]
EXPIRES [illegible]

Witness my hand and official seal in the County and State last aforesaid this 31ST day of OCTOBER, A.D. 2001.

[signature]
Notary Signature
CANDY ANN MADDALINO
Printed Name

Inst:200[illegible] Date:10/31/2001 Time:14:04:17
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:938 P:2250

In Witness Whereof, *the said Grantor has signed and sealed these presents the day and year first above written.*

Signed, sealed and delivered in the presence of:

Lisa Hicks — Witness Signature (as to First Grantee)	C. Vance Lyons Jr — Grantor Signature (L.S.)
LISA HICKS — Printed Name	C. VANCE LYONS JR — Printed Name
Candy Maddalino — Witness Signature (as to First Grantee)	ROUTE 29 BOX 2423
CANDY MADDALINO — Printed Name	LAKE CITY, FL 32024 — Post Office Address
Lisa Hicks — Witness Signature (as to Co-Grantee, if any)	Mary H Lyons — Co-Grantor Signature, (if any) (L.S.)
LISA HICKS — Printed Name	MARY H. LYONS — Printed Name
Candy Maddalino — Witness Signature (as to Co-Grantee, if any)	ROUTE 29 BOX 2423
CANDY MADDALINO — Printed Name	LAKE CITY, FL 32024 — Post Office Address

STATE OF FLORIDA)

COUNTY OF COLUMBIA)

I hereby Certify that on this day, before me, an officer duly authorized to administer oaths and take acknowledgments, personally appeared C. VANCE LYONS AND MARY H. LYONS known to me to be the person S described in and who executed the foregoing instrument, who acknowledged before me that THEY executed the same, and an oath was not taken. (Check one:) ☒ Said person(s) is/are personally known to me. ☐ Said person(s) provided the following type of identification: ____________

NOTARY RUBBER STAMP SEAL

CANDY ANN MADDALINO
MY COMMISSION # CC [illegible]
EXPIRES [illegible]
Bonded Thru Notary Public Underwriters

Witness my hand and official seal in the County and State last aforesaid this 31ST day of OCTOBER, A.D. 2001

Candy Ann Maddalino — Notary Signature

CANDY ANN MADDALINO — Printed Name

Inst:2001020669 Date:10/31/2001 Time:14:04:17
Doc Stamp-Deed : 0.70
DC,P.DeWitt Cason,Columbia County B:988 P:2251

EXHIBIT "A"

A part of the NW 1/4 of Section 10, Township 5 South, Range 16 East, Columbia County, Florida, being more particularly described as follows: Commence at the SE corner of Lot 12 of Pecan Acres as per plat thereof recorded in Plat Book 5, Page 46 of the public records of Columbia County, Florida, and run thence S.89°17'48"W., 162.21 feet; thence S.00°41'54"E., 33.00 feet to the Point Of Beginning; thence N.89°23'34"E., 125.40 feet; thence S.03°08'12"W., 210.09 feet; thence S.89°24'06"W., 111.25 feet; thence S.00°41'54"E., 15.86 feet; thence N.79°43'30"W., 268.78 feet; thence N.00°41'54"W., 132.05 feet; thence N.89°17'48"E., 264.00 feet; thence N.00°41'54"W., 42.90 feet to the Point Of Beginning. Parcel contains 1.52 acres, more or less.


0702-52
E
F
LEE
DAIRY
ROAD
ZONE A
240
8
9
10
ZONE X
17
16
15
47
ZONE A
ZONE A
ZONE A
CSX
20
21
22
ZONE A
ZONE A
ZONE A
WILLIAMS
28
27
29

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:	Kevin Bedenbaugh
Address:	TH-5FL NORTH	Permitting Office:	Columbia
City, State:	,	Permit Number:	25575
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)	Description Area: 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: 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

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

Modular 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 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		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.

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
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)	Description Area 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		

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: 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. Date: 1-12-07 Plan No. _____
Approved By SCOTT S. FRANCIS

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

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.

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 SOUTH	Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	South		

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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. (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		
	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: 27501
Total base points: 27542

PASS

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

PREPARED BY: _____

DATE: 1/12/07

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. _____

BUILDING OFFICIAL: SCOTT S. FRANCIS

DATE: 2198-0014F

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

Modular 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 SOUTH, , ,** 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	30.53	12354.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	64.08	1.00	5767.0
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	70.94	1.00	3192.0
				3.Double, Clear	E	0.0	0.0	40.0	68.60	1.00	2743.0
				4.Double, Clear	E	0.0	0.0	12.3	68.60	1.00	840.0
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	34.70	1.00	1041.0
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	60.89	1.00	1826.0
				As-Built Total:				**247.3**			**15409.0**
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	1.60		2488.0
Exterior	1555.0	2.70	4198.5								
Base Total:	**1555.0**		**4198.5**	**As-Built Total:**				**1555.0**			**2488.0**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	6.40		256.0
Exterior	40.0	6.40	256.0								
Base Total:	**40.0**		**256.0**	**As-Built Total:**				**40.0**			**256.0**
CEILING TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM X SCM =		Points
Under Attic	2248.0	2.80	6294.4	1. Under Attic			30.0	2248.0	2.77 X 1.00		6227.0
Base Total:	**2248.0**		**6294.4**	**As-Built Total:**				**2248.0**			**6227.0**
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	-0.68		-1517.4
Raised	2248.0	-2.16	-4855.7								
Base Total:			**-4855.7**	**As-Built Total:**				**2248.0**			**-1517.4**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	2248.0	18.79	42239.9					2248.0	18.79		42239.9

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: TH-5FL SOUTH, , ,	PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 60487.1			**Summer As-Built Points:**					**65102.5**
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)					
60487.1	0.3250	19658.3	65102 **65102.5**	1.00 **1.00**	(1.07 x 1.165 x 1.08) **1.350**	0.244 **0.244**	0.950 **0.950**	20337.5 **20337.5**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL SOUTH, , ,** 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	3.60	1457.0	1.Double,U=0.48,Clear	W	0.0	0.0	90.0	2.09	1.00	188.0	
				2.Double,U=0.48,Clear	E	0.0	0.0	45.0	1.43	1.00	64.0	
				3.Double, Clear	E	0.0	0.0	40.0	3.30	1.00	131.0	
				4.Double, Clear	E	0.0	0.0	12.3	3.30	1.00	40.0	
				5.Double,U=0.48,Clear	N	0.0	0.0	30.0	2.47	1.00	73.0	
				6.Double,U=0.48,Clear	S	0.0	0.0	30.0	1.27	1.00	37.0	
				As-Built Total:				**247.3**			**533.0**	
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	0.30		466.5	
Exterior	1555.0	0.60	933.0									
Base Total:	**1555.0**		**933.0**	**As-Built Total:**				**1555.0**			**466.5**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	1.Exterior Insulated				40.0	1.80		72.0	
Exterior	40.0	1.80	72.0									
Base Total:	**40.0**		**72.0**	**As-Built Total:**				**40.0**			**72.0**	
CEILING TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM X	WCM =	Points	
Under Attic	2248.0	0.10	224.8	1. Under Attic			30.0	2248.0	0.10 X	1.00	224.8	
Base Total:	**2248.0**		**224.8**	**As-Built Total:**				**2248.0**			**224.8**	
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	0.00		0.0	
Raised	2248.0	-0.28	-629.4									
Base Total:			**-629.4**	**As-Built Total:**				**2248.0**			**0.0**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	2248.0	-0.06	-134.9					2248.0	-0.06		-134.9	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

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

BASE			AS-BUILT					
Winter Base Points:		**1922.5**	**Winter As-Built Points:**					**1161.4**
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					
			1161.4	1.000	(1.099 x 1.137 x 1.14) 0.443		0.950	696.0
1922.5	**0.5540**	**1065.1**	**1161.4**	**1.00**	**1.425**	**0.443**	**0.950**	**696.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL SOUTH, , ,** 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	2273.00	6819.0		1.0	0.97	3	1.00	2155.83	1.00	6467.5	
				As-Built Total:						**6467.5**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
19658	**1065**	**6819**	**27542**	**20337**	**696**	**6468**	**27501**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **TH-5FL SOUTH, , ,** 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* = 87.2

The higher the score, the more efficient the home.

, TH-5FL SOUTH, , ,

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.

Product Approval

TOWNHOMES, LLC
Model Number: TH-5FL
HWC Number: 2198-0014F

Exterior Doors

Category	Manufacturer	Description	Approval #
Swinging	Elixer	Exterior Door	FL1722-R1
Double	Jeld-Wen	Ext. Double Door	FL3942

Exterior Windows

Category	Manufacturer	Description	Approval #
Single Hung	Kinro	Single Hung	FL993-R2

Exterior Wall

Category	Manufacturer	Description	Approval #
Siding	Variform, Inc.	Vinyl Siding	FL1606-R1
Fascia	James Hardie	Hardi-board Fascia	FL1889-R1

Roofing

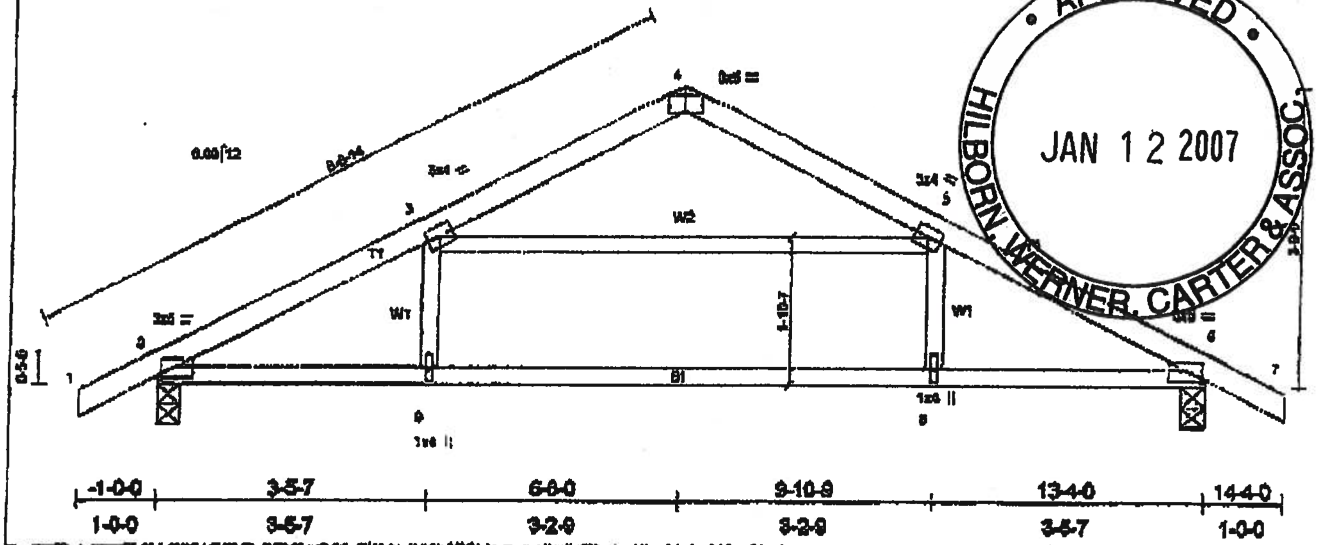
Category	Manufacturer	Description	Approval #
Shingles	Owens Corning	Asphalt Shingles	FL3663-R1
Fasteners	Senco Products	Roofing Nail	FL5135

Structural

Category	Manufacturer	Description	Approval #
Strapping	United Steel Products	Uplift Straps	FL822
Truss Tie-Down	Simpson	Truss Tie-Down	FL1423-R2

Job	Truss	Truss Type	Qty	Ply	TOWNHOMES 216 FL
39042	P667401	PEAK	1	1	2160402

Universal Forest Products Inc., Grand Rapids, MI 49525, Brad Rose 6.500 s Dec 14 2006 MiTek Industries, Inc. Tue Jan 09 08:38:08 2007 Page 1 of 2



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

Plate Offsets (X,Y): [2:0-0-7,0-0-6], [4:0-2-8,Edge], [6:0-0-7,0-0-6]

LOADING (psf)		SPACING		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	18.0	Plates Increase	1.15	TC	0.30	Vert(LL)	-0.11	8-9	>999	240	MT20	197/144
(Ground Snow=20.0)		Lumber Increase	1.15	BC	0.68	Vert(TL)	-0.23	8-9	>686	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.60	Horz(TL)	0.02	6	n/a	n/a		
BCLL	10.0	Code IBC2003/TPI2002		(Matrix)							Weight: 39 lb	
BCDL	7.0											

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 3 SPF No.2
WEBS 2 X 3 SPF No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-4-7 oc bracing.

REACTIONS (lb/size) 2=503/0-3-8, 6=503/0-3-8
Max Horz 2=-122(LC 9)
Max Uplift 2=-581(LC 8), 6=-581(LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/23, 2-3=-769/882, 3-4=-233/381, 4-5=-233/381, 5-6=-769/882, 6-7=0/23
BOT CHORD 2-9=-602/637, 8-9=-602/637, 6-8=-602/637
WEBS 3-9=0/186, 5-8=0/186, 3-5=-479/607

JOHN P KOZAL
No 57289
STATE OF FLORIDA
PROFESSIONAL ENGINEER
1/9/07

NOTES
1) Wind: ASCE 7-02; 130mph; h=30ft; TCDL=4.2psf; BCDL=4.2psf; Category II; Exp C; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) TCLL: ASCE 7-02; Pg=20.0 psf (ground snow); Ps=18.0 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1; IBC 1607.11.2 minimum roof live load applied where required.
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 14.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed as per IBC Sect. 1606.3.1.1 Load reduction, for multiple live loads.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 581 lb uplift at joint 2 and 581 lb uplift at joint 6.
8) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

WARNING - ***Verify design parameters and READ NOTES***

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0060 GRAND RAPIDS, MI 49505

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.2 of TPI1-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult BCSI 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\Mitek\Supp\templates\ufp.tpe

Job	Truss	Truss Type	Qty	Ply	TOWNHOMES 216
37041	HM584602	HINGE MONO	1	1	0801-01 2161253

Universal Forest Products Inc., Grand Rapids, MI 49525, Travis Wells — 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Aug 03 09:30:29 2006 Page 1/2

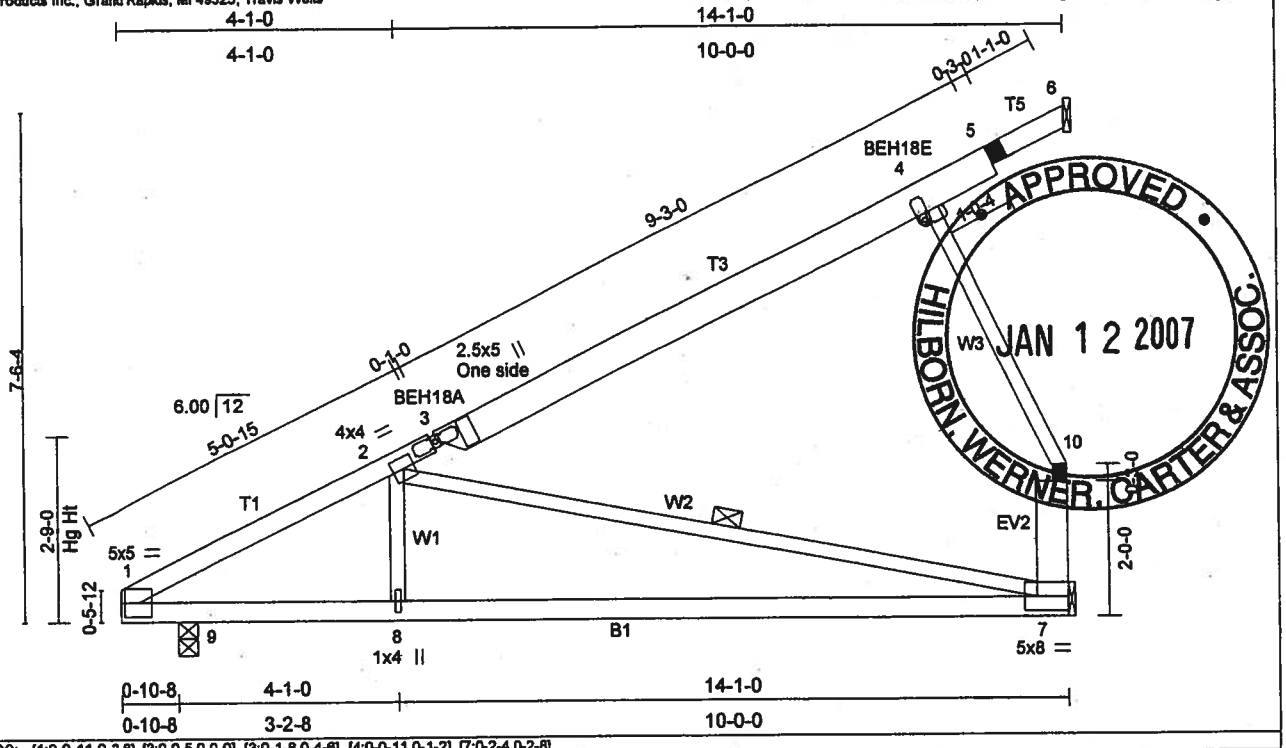


Plate Offsets (X,Y): [1:0-0-11,0-2-8], [3:0-0-5,0-0-0], [3:0-1-8,0-4-6], [4:0-0-11,0-1-2], [7:0-2-4,0-2-8]

SPACING: 2-0-0	SPACING: 1-4-0	SPACING 2-0-0	CSI	DEFL in (loc) l/defl L/d	PLATES GRIP
LOADING (psf)	LOADING (psf)	Plates Increase 1.15	TC 0.78	Vert(LL) -0.39 7-8 >392 240	MT20 197/144
TCLL 18.0	TCLL 27.0	Lumber Increase 1.15	BC 0.95	Vert(TL) -0.66 7-8 >235 180	MII18 141/138
(Ground Snow=20.0)	(Ground Snow=30.0)	Rep Stress Incr YES	WB 0.48	Horz(TL) -0.02 7 n/a n/a	
TCDL 7.0	TCDL 10.5	Code IBC2003/TPI2002	(Matrix)		Weight: 56 lb
BCLL 10.0	BCLL 15.0				
BCDL 7.0	BCDL 10.5				

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except* T3 2 X 6 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF Stud *Except* W2 2 X 3 SPF No.2, EV2 2 X 6 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-7
JOINTS 1 Brace at Jt(s): 10

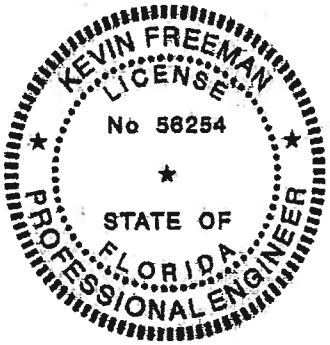
REACTIONS (lb/size) 7=435/Mechanical, 6=0/Mechanical, 9=542/0-3-8
Max Horz 6=93(load case 8), 9=556(load case 8)
Max Uplift 7=-646(load case 8), 9=-514(load case 8)
Max Grav 7=463(load case 3), 9=577(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-780/453, 2-3=-256/2, 3-4=-259/61, 4-5=-91/85, 5-6=-52/93, 7-10=-246/558
BOT CHORD 1-9=-292/641, 8-9=-945/605, 7-8=-945/605
WEBS 2-8=-27/308, 2-7=-527/708, 4-10=-270/613

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
5=65/91/63/0, 10=270/613/255/0

NOTES
1) Wind: ASCE 7-02; 130mph @24in o.c.; h=30ft; TCDL=2.8psf; BCDL=2.8psf; Category II; Exp C; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Wind: ASCE 7-02; 159mph @16in o.c.; h=30ft; TCDL=4.2psf; BCDL=4.2psf; Category II; Exp C; enclosed; MWFRS gable end and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) TCLL: ASCE 7-02; Pg=20.0 psf (ground snow); Ps=18.0 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1; IBC 1607.11.2 minimum roof live load applied where required.
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) See BEH18 DETAILS for plate placement.
9) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
10) All additional member connections shall be provided by others for forces as indicated.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 646 lb uplift at joint 7 and 514 lb uplift at joint 9.
12) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2
14) Based on HM584601. Revision: Increased KP gap.

TR2.0

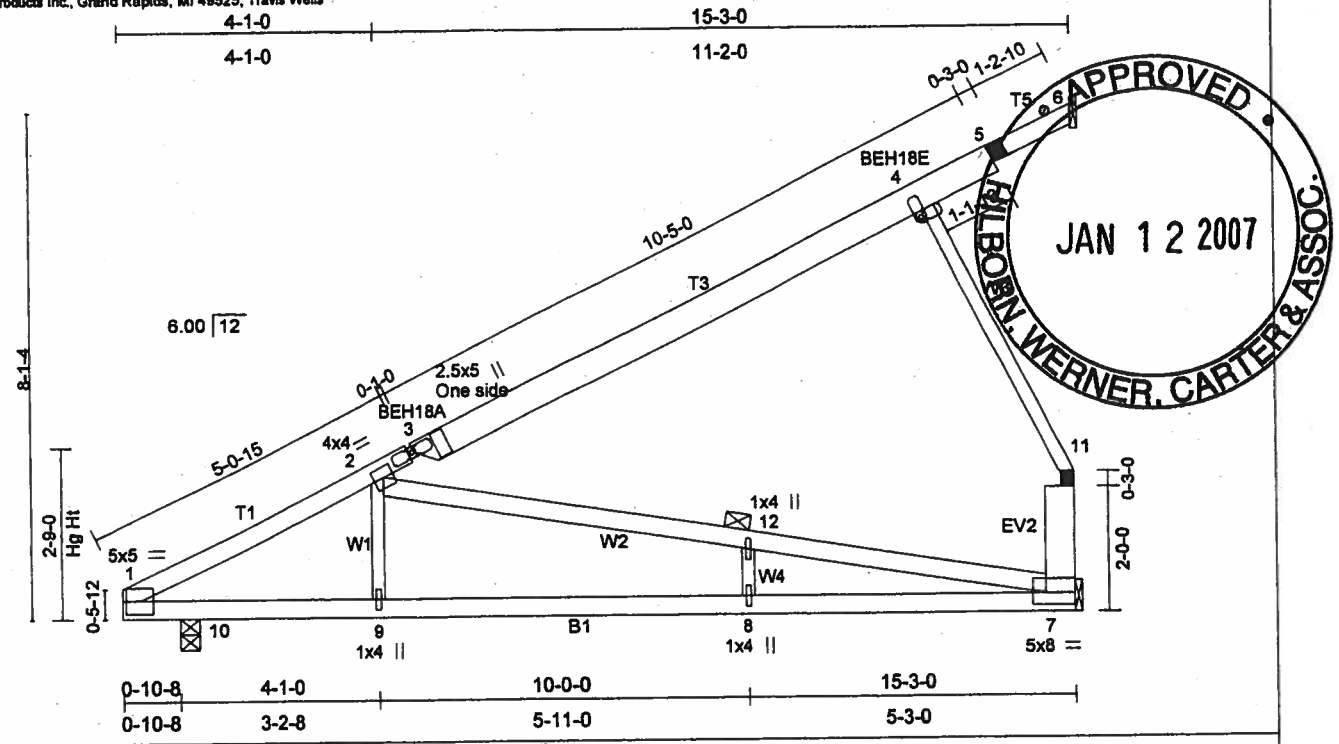


August 3, 2006

TR 2.1

Job	Truss	Truss Type	Qty	Ply	TOWNHOMES 216
37041	HM584503	HINGE MONO	1	1	0801-01 2161253

Universal Forest Products Inc., Grand Rapids, MI 49525, Travis Wells — 6.300 s Feb 15 2006 MiTek Industries, Inc. Thu Aug 03 09:30:18 2006 Page 1/2



APPROVED
JAN 1 2 2007
HILBORN, WERNER, CARTER & ASSOC.

Plate Offsets (X,Y): [1:0-0-11,0-2-8], [3:0-0-5,0-0-0], [3:0-1-8,0-4-8], [4:0-0-11,0-1-2], [7:Edge,0-2-4]

SPACING: 2-0-0		SPACING: 1-4-0		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LOADING (psf)		LOADING (psf)		Plates Increase	1.15	TC	0.86	Vert(LL)	-0.40	7-8	>418	240	MT20	197/144
TCLL	18.0	TCLL	27.0	Lumber Increase	1.15	BC	0.95	Vert(TL)	-0.62	8-9	>272	180	MII18	141/138
(Ground Snow=20.0)		(Ground Snow=30.0)		Rep Stress Incr	YES	WB	0.59	Horz(TL)	-0.03	7	n/a	n/a		
TCDL	7.0	TCDL	10.5	Code	IBC2003/TPI2002	(Matrix)							Weight: 65 lb	
BCLL	10.0	BCLL	15.0											
BCDL	7.0	BCDL	10.5											

LUMBER
TOP CHORD 2 X 4 SPF No.2 *Except*
T3 2 X 6 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF Stud *Except*
W2 2 X 4 SPF No.2, EV2 2 X 6 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
JOINTS 1 Brace at Jt(s): 11, 12

REACTIONS (lb/size) 7=474/Mechanical, 6=0/Mechanical, 10=585/0-3-8
Max Horz 6=105(load case 8), 10=596(load case 8)
Max Uplift 7=-699(load case 8), 10=-553(load case 8)
Max Grav 7=503(load case 3), 10=623(load case 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-847/549, 2-3=-288/6, 3-4=-291/71, 4-5=-102/95, 5-6=-59/104, 7-11=-275/609
BOT CHORD 1-10=-383/701, 9-10=-1066/660, 8-9=-1066/660, 7-8=-1066/660
WEBS 2-9=-37/270, 2-12=-563/806, 7-12=-575/794, 4-11=-303/671, 8-12=0/81

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)
5=74/102/68/0, 11=303/671/281/0

SOUTH CAROLINA REGISTERED 20654 PROFESSIONAL ENGINEER KEVIN

NOTES
1) Wind: ASCE 7-02; 130mph @24in o.c.; h=30ft; TCDL=2.8psf; BCDL=2.8psf; Category II; Exp C; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
2) Wind: ASCE 7-02; 159mph @16in o.c.; h=30ft; TCDL=4.2psf; BCDL=4.2psf; Category II; Exp C; enclosed; MWFRS gable end and C-C Exterior(2) zone; cantilever left exposed ; Lumber DOL=1.60 plate grip DOL=1.33. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
3) TCLL: ASCE 7-02; Pg=20.0 psf (ground snow); Ps=18.0 psf (roof snow); Category II; Exp C; Partially Exp.; Ct= 1; IBC 1607.11.2 minimum roof live load applied where required.
4) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed as per IBC Sect. 1605.3.1.1 Load reduction, for multiple live loads.
7) All plates are MT20 plates unless otherwise indicated.
8) See BEH18 DETAILS for plate placement.
9) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
10) All additional member connections shall be provided by others for forces as indicated.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 699 lb uplift at joint 7 and 553 lb uplift at joint 10.
12) This truss is designed in accordance with the 2003 International Building Code section 2308.1 and referenced standard ANSI/TPI 1.
13) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2
14) Based on HM584501. Revision: increased KP gap.

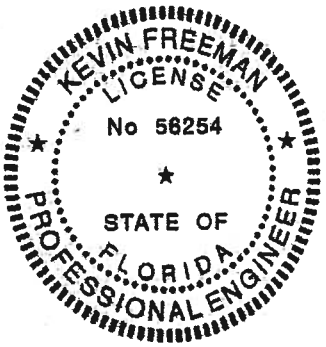
WARNING - *Verify design parameters and READ NOTES*

Universal Forest Products, Inc. 2801 EAST BELTLINE RD, NE
PHONE (616)-364-6161 FAX (616)-365-0080 GRAND RAPIDS, MI 49505

This building component has only been designed for the loads noted on this drawing. Construction and lifting forces have not been considered. The builder is responsible for lifting methods and system design. Builder responsibilities are defined under section 2.3 of TPI1-2002. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication,quality control, storage, delivery, erection and bracing, consult BCSI 1-03 from the Wood Truss Council of America and Truss Plate Institute Recommendation available from WTCA, 6300 Enterprise LN, Madison, WI 53719 J:\support\MiTekSupp\templates\ufp.tpe

TR1.0

Job	Truss	Truss Type	Qty	Ply	TOWNHOMES 216
37041	HM584503	HINGE MONO	1	1	0801-01 2161253



August 3, 2006

TR1.1

HWC

ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

January 25, 2007
TownHomes, LLC.
133 S.E. Newell Drive
Lake City, FL 32056

RE: Manufacturer: TownHomes, Inc.
S/N Size & Occupancy TH-5FL 29'-0" X 66'-0", 15'-2" X 26'-8" R-3
HWC Plan#: 1R-2198-0014F

To Whom It May Concern:

This is to certify that the plans for the referenced manufactured building have been reviewed and approved as being in compliance with the 2004 Florida Codes and Standards, with 2005/06 supplement, as noted on the approved drawings, subject to the following limitations:

1. Approval covers factory-built structure only (Note: Any alterations to factory built structure on site voids state approval)
2. Items installed at the site are subject to review, approval, and inspection by the local authority having jurisdiction.
3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
4. Signed and sealed plans shall be on file with HWC Engineering.
5. NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties).

Sincerely,

HILBORN, WERNER, CARTER & ASSOCIATES, INC.

Plan Reviewer

HILBORN, WERNER, CARTER AND ASSOCIATES, INC.
1627 SOUTH MYRTLE AVENUE CLEARWATER, FLORIDA 33756
(727) 584-8151
FAX: (727) 586-3343 / (727) 585-2392 / (727) 587-0447
Modular Dapia Inspection

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

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.

#25575

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 321 N.W. Cole Terrace, Suite 107 City Lake City State FL Zip 32055
Company Business License No. JB109478 Company Phone No. 386-755-3611 • 352-494-5751
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: T & B Homes Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 256 SW Fitzgerald Ct. Lake City FL 32025

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

Section 4: Treatment Information

Date(s) of Treatment(s) 3-19-07
Brand Name of Product(s) Used Bifen XTS
EPA Registration No. 53843-189
Approximate Final Mix Solution % 0.6%
Approximate Size of Treatment Area: Sq. ft. 2250 Linear ft. 216 Linear ft. of Masonry Voids 216
Approximate Total Gallons of Solution Applied 700
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 Treated all Piers + Stem Wall

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

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 [signature] Date 3-19-07

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)

Form **NPCA-99-B** may still be used

form **HUD-NPCA-99-B** (04/2003)

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 10-5S-16-03509-001 **Building permit No.** 000025575

Use Classification MODULAR **Fire:** 33.48

Permit Holder PLUMB LEVEL CONST. **Waste:** 100.50

Owner of Building MARY LYON **Total:** 133.98

Location: 256 SW ETERNAL COURT, LAKE CITY, FL 32025

Date: 04/05/2007

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)