DATE 04/06/2007

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000025704

APPLICANT MIKE DANIELS PHONE 623-2621

ADDRESS 152 SE DEFENDER DR LAKE CITY FL 32024

OWNER TOM MORRISON PHONE 754-5042

ADDRESS 152 SW BLACKBEAR GLEN LAKE CITY FL 32024

CONTRACTOR GERALD SMITH PHONE 386-234-0318

LOCATION OF PROPERTY 247 S, ON THE CORNER OF 247 AND BLACKBERRY GLEN

TYPE DEVELOPMENT MODULAR HOME ESTIMATED COST OF CONSTRUCTION 0.00

HEATED FLOOR AREA _____ TOTAL AREA _____ HEIGHT 14.00 STORIES 1

FOUNDATION _____ WALLS _____ ROOF PITCH _____ FLOOR _____

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

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

PARCEL ID 31-4S-16-03250-005 SUBDIVISION _____

LOT _____ BLOCK _____ PHASE _____ UNIT _____ TOTAL ACRES 1.00

		CBC1254161	Mike Daniels	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
EXISTING	07-0179-E	BK	JH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: FLOOR ONE FOOT ABOVE THE ROAD, NOC ON FILE

Check # or Cash 1111

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 _____

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.

Called on 4-5-07 CH

Columbia County Building Permit Application

For Office Use Only Application # 0703-90 Date Received 3/29/07 By CT Permit # 25704

Application Approved by - Zoning Official BLK Date 05.04.07 Plans Examiner OK JTH Date 4-2-07

Flood Zone X Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. Low Den.

Comments

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

Name Authorized Person Signing Permit Mike Daniels MILTON SMITH Fax

Phone 386-623-2621

Address 152 SE DEFENDER DR. LAKE CITY FL. 32024

Owners Name Tom Morrison Phone 386-754-5042

911 Address 152 SW BLACKBEAR GLN. LAKE CITY FL. 32024

Contractors Name Gerald Smith Phone 386-234-0318

Address 15976 CR 6 East Jasper, Fl. 32052

Fee Simple Owner Name & Address Tom MORRISON

Bonding Co. Name & Address N/A

Architect/Engineer Name & Address ALL AMERICAN HOMES RUTHERFORD, NC.

Mortgage Lenders Name & Address

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

Property ID Number 31-4S-16-03250-005 Estimated Cost of Construction 68,500

Subdivision Name N/A Lot ___ Block ___ Unit ___ Phase ___

Driving Directions CR 247 1 MILE PAST CYPRESS LAKES RD ON RIGHT BLACKBEAR GLN. Corner of 247S & Blackbear Glen

Type of Construction FRAME ~~Site~~ MODULAR Number of Existing Dwellings on Property 0

Total Acreage 1 Lot Size ___ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front 120 FT Side 30 FT Side 105 FT Rear 50 FT

Total Building Height 14' Number of Stories 1 Heated Floor Area 1742 Roof Pitch 7/12

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.

Thomas E. Morrison
Owner Builder or Authorized Person by Notarized Letter

Gerald Smith
Contractor Signature
Contractors License Number CBC1254161
Competency Card Number
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

NOTARY PUBLIC-STATE OF FLORIDA
Michael J. Carr
Commission # DD519389
Expires: FEB. 19, 2010
Bonded Thru Atlantic Bonding Co., Inc.

Sworn to (or affirmed) and subscribed before me this 14 day of March 20 07.

Personally known ✓ or Produced Identification ___

Notary Signature

(Revised Sept. 2006)

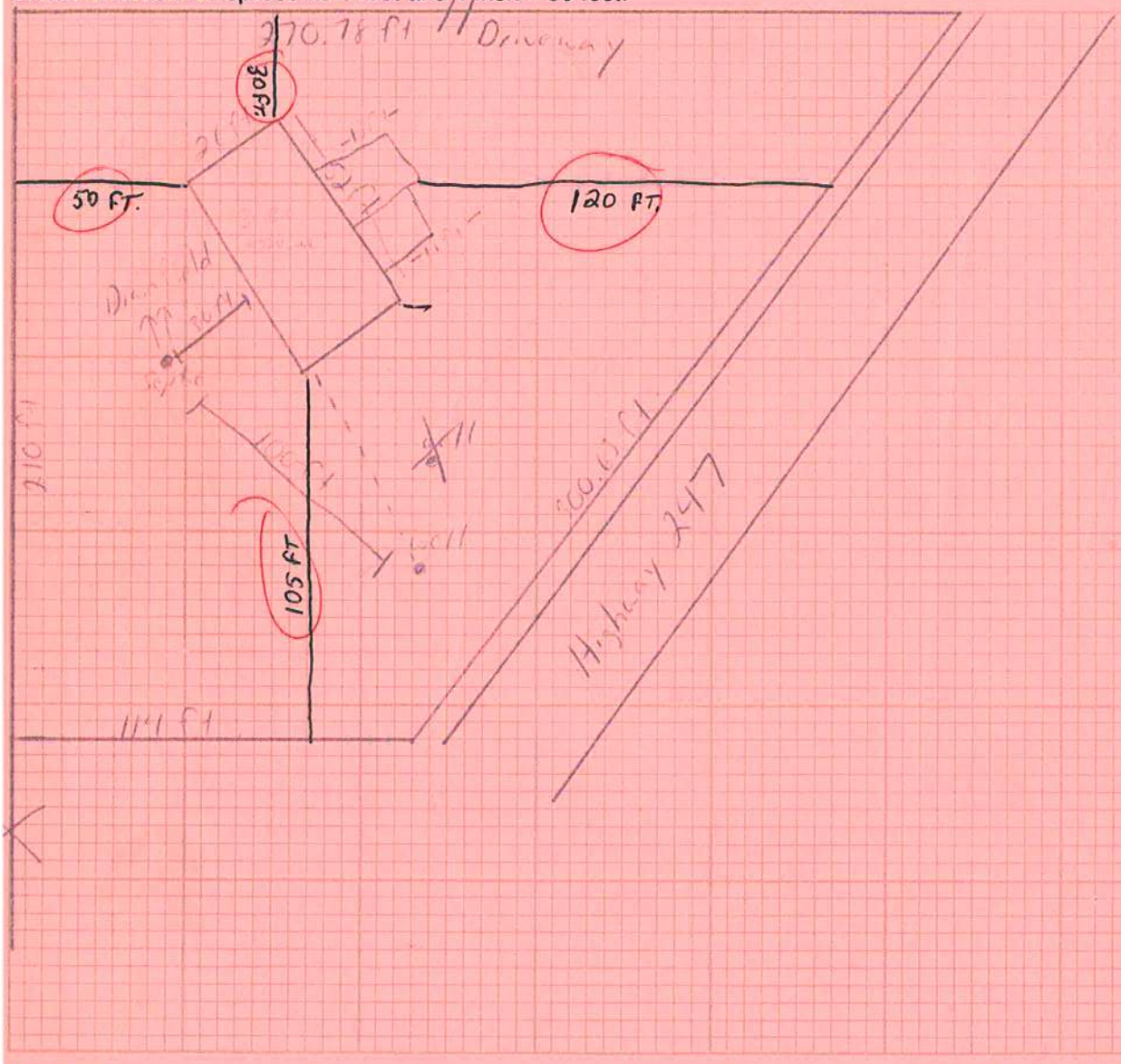
STATE OF FLORIDA
DEPARTMENT OF HEALTH

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-0149E

PART II - SITE PLAN

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



Notes: _____

Site Plan submitted by: _____ _____
Signature Title

Plan Approved _____ Not Approved _____ Date 3/2/17

By _____ County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 3/6/2007 **DATE ISSUED:** 3/6/2007

ENHANCED 9-1-1 ADDRESS:

152 SW BLACKBEAR GLN

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

31-4S-16-03250-005

Remarks:

Address Issued By: _____
Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

651

Approved Address

MAR 0 6 2007

911Addressing/GIS Dept

NOTICE OF COMMENCEMENT FORM
COLUMBIA COUNTY, FLORIDA

THIS DOCUMENT MUST BE RECORDED AT THE COUNTY CLERKS OFFICE BEFORE YOUR FIRST INSPECTION

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and inaccordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.
IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Tax Parcel ID Number 31-4S-16-03250-005 **Permit Number** _____

1. Description of property: (legal description of the property and street address or 911 address)
VACANT LOT ON HWY 247 & BLACK BEAR GLN.
152 SW BLACKBEAR GLN LAKE CITY FL. 32024

2. General description of improvement: NEW MODULAR HOME

3. Owner Name & Address TOM MORRISON

Interest in Property OWNER

4. Name & Address of Fee Simple Owner (if other than owner): _____

5. Contractor Name GERALD SMITH **Phone Number** 386-234-0318
Address 15975 CR. 6 EAST JASPER, FL. 32052

6. Surety Holders Name _____ **Phone Number** _____
Address _____
Amount of Bond _____

Inst:2007007214 Date:03/29/2007 Time:13:54
DC,P.DeWitt Cason,Columbia County B:1116 P:299

7. Lender Name _____
Address _____

8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes:
Name _____ **Phone Number** _____
Address _____

9. In addition to himself/herself the owner designates _____ **of** _____ **to receive a copy of the Lien Notice as provided in Section 713.13 (1) –**
(a) 7. Phone Number of the designee _____

10. Expiration date of the Notice of Commencement (the expiration date is 1 (one) year from the date of recording, (Unless a different date is specified) _____

THE OWNER MUST SIGN THE NOTICE OF COMMENCEMENT AND NO ONE ELSE MAY BE PERMITTED TO SIGN IN HIS/HER STEAD.

Thomas E. Morrison
Signature of Owner

Sworn to (or affirmed) and subscribed before day of 29, March, **20** 07.

Signature of Notary **NOTARY STAMP/SEAL**

NOTARY PUBLIC-STATE OF FLORIDA
George R. Morse
Commission # DD476488
Expires: SEP. 27, 2009
Bonded Thru Atlantic Bonding Co., Inc.

```
 @ CAM110M01        CamaUSA Appraisal System                      Columbia County
  3/29/2007 13:41   Property Maintenance                 17600  Land  001
 Year T Property                          Sel                     AG    000
 2007 R 31-4S-16-03250-005                ...                     Bldg  000
  Owner MORRISON THOMAS E & SARAH L     + Conf                    Xfea  000
   Addr 238 SW LEGION DR                                 17600  TOTAL      B
                                                       1.000  Total Acres
                                                Retain Cap?   Renewal   Notice
City,St LAKE CITY              FL Zip 32024          N
Country                           (PUD1)          (PUD2)          (PUD3) MKTA02

Appr By DF   Date 11/08/2006 AppCode     UseCd 009900 NO AG ACREAGE
      TxDist Nbhd         MktA    ExCode  Exemption/%     TxCode   Units    Tp
        003   31416.00    02
              DIST 3
 House#      152        Street BLACK BEAR                MD GLN  Dir SW #
        -                 City LAKE CITY
   Subd        N/A                      Condo      .00 N/A
   Sect      31 Twn      4S Rnge     16 Subd          Blk          Lot
 Legals COMM SW COR OF NW1/4, RUN E      3115.34 FT FOR POB. CONT E
        114.25 FT TO W R/W OF SR-247,    NE ALONG R/W 280.78 FT, W       +
   Map# 25                                        Mnt 3/29/2007 WANDA
 F1=Task  F2=ExTx  F3=Exit  F4=Prompt  F11=Docs  F10=GoTo  PgUp/PgDn  F24=More
 Record Updated
```

```
@ CAM112M01        CamaUSA Appraisal System                                  Columbia County
 3/29/2007 13:41  Legal Description Maintenance                      17600  Land   001
Year T Property                                Sel                           AG     000
2007 R 31-4S-16-03250-005                      ...                           Bldg   000
       152 BLACK BEAR GLN SW  LAKE CITY                                      Xfea   000
       MORRISON THOMAS E & SARAH L                                   17600  TOTAL       B

  1  COMM SW COR OF NW1/4, RUN E     3115.34 FT FOR POB. CONT E           2
  3  114.25 FT TO W R/W OF SR-247,   NE ALONG R/W 280.78 FT, W            4
  5  300.63 FT, S 210 FT TO POB.     ORB 749-772, 780-1412,               6
  7  795-1327 JTWRS, DC JOHHNY       DC 891-2534, 861-1841,               8
  9  899-2309, WD 1112-357.                                              10
 11                                                                      12
 13                                                                      14
 15                                                                      16
 17                                                                      18
 19                                                                      20
 21                                                                      22
 23                                                                      24
 25                                                                      26
 27                                                                      28
                                                    Mnt  3/08/2007 CHUCK
F1=Task  F3=Exit  F4=Prompt  F10=GoTo  PgUp/PgDn  F24=More
```

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	PRE-41FL	Builder:	Gerald Smith
Address:	PRE-41FL SOUTH	Permitting Office:	Columbia County
City, State:	,	Permit Number:	25704
Owner:		Jurisdiction Number:	221000
Climate Zone:	South		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 48.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1742 ft²	13. Heating systems	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 34.1 kBtu/hr
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble, U=0.6) 17.4 ft²		HSPF: 6.60
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 55.7 ft²	b. N/A	
8. Floor types		c. N/A	
a. Raised Wood, Stem Wall	R=19.0, 1742.0ft²	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.97
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 1273.0 ft²	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
b. N/A		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,
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1742.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 200.0 ft		
b. N/A			

APPROVED
OCT 31 2005
HWC
HILBORN, WERNER, CARTER & ASSOC.

SEE MANUFACTURER'S CONTRACT WITH FLORIDA DCA

Glass/Floor Area: 0.11 Total as-built points: 28709 Total base points: 30180 **PASS**

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

PREPARED BY: _____

DATE: 10/17/05

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 10.27.05 Plan [illegible] 2006-09001

Approved By JAMES A. LYONS

BUILDING OFFICIAL: _____

DATE: _____

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

Modular Building Plans Examiner
Florida License No. SMP-12

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: **PRE-41FL 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	1742.0	32.50	10190.7	Double,U=0.48,Clear	W	0.0	0.0	60.0	64.08	1.00	3845.0
				Double,U=0.48,Clear	E	0.0	0.0	105.0	70.94	1.00	7448.5
				Double,U=0.48,Clear	S	0.0	0.0	8.3	60.89	1.00	505.4
				Double,U=0.60,Clear	W	0.0	0.0	17.4	63.16	1.00	1098.9
				As-Built Total:				**190.7**			**12897.8**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1273.0	2.40		3055.2
Exterior	1273.0	2.70	3437.1								
Base Total:	**1273.0**		**3437.1**	**As-Built Total:**				**1273.0**			**3055.2**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	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	1742.0	2.80	4877.6	Under Attic			30.0	1742.0	2.77 X 1.00		4825.3
Base Total:	**1742.0**		**4877.6**	**As-Built Total:**				**1742.0**			**4825.3**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			19.0	1742.0	-0.40		-696.8
Raised	1742.0	-2.16	-3762.7								
Base Total:			**-3762.7**	**As-Built Total:**				**1742.0**			**-696.8**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1742.0	18.79	32732.2					1742.0	18.79		32732.2

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL SOUTH, , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 47730.9			**Summer As-Built Points:**					**53069.7**
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 48000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			53070	1.00	(1.07 x 1.165 x 1.08)	0.284	0.950	19341.6
47730.9	**0.4266**	**20362.0**	**53069.7**	**1.00**	**1.350**	**0.284**	**0.950**	**19341.6**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	1742.0	2.36	740.0	Double,U=0.48,Clear	W	0.0	0.0	60.0	2.09	1.00	125.6
				Double,U=0.48,Clear	E	0.0	0.0	105.0	1.43	1.00	150.1
				Double,U=0.48,Clear	S	0.0	0.0	8.3	1.27	1.00	10.5
				Double,U=0.60,Clear	W	0.0	0.0	17.4	2.71	1.00	47.2
				As-Built Total:				**190.7**			**333.3**

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	13.0	1273.0	0.60	763.8
Exterior	1273.0	0.60	763.8					
Base Total:	**1273.0**		**763.8**	**As-Built Total:**		**1273.0**		**763.8**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	0.0	0.00	0.0	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	1742.0	0.10	174.2	Under Attic	30.0	1742.0	0.10 X	1.00	174.2
Base Total:	**1742.0**		**174.2**	**As-Built Total:**		**1742.0**			**174.2**

FLOOR TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall	19.0	1742.0	-0.10	-174.2
Raised	1742.0	-0.28	-487.8					
Base Total:			**-487.8**	**As-Built Total:**		**1742.0**		**-174.2**

INFILTRATION	Area X	BWPM	= Points	Area X	WPM	= Points
	1742.0	-0.06	-104.5	1742.0	-0.06	-104.5

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL SOUTH, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**1157.7**	**Winter As-Built Points:**					**1064.6**
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 34100 btuh ,EFF(6.6) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			1064.6	1.000	(1.099 x 1.137 x 1.14)	0.517	0.950	744.4
1157.7	**0.6274**	**726.4**	**1064.6**	**1.00**	**1.425**	**0.517**	**0.950**	**744.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	
4		2273.00	9092.0	50.0	0.97	4	1.00	2155.83	1.00	8623.3	
				As-Built Total:						**8623.3**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
20362	**726**	**9092**	**30180**	**19342**	**744**	**8623**	**28709**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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* = 84.4

The higher the score, the more efficient the home.

, PRE-41FL SOUTH, , ,

1.	New construction or existing		New	
2.	Single family or multi-family		Single family	
3.	Number of units, if multi-family		1	
4.	Number of Bedrooms		4	
5.	Is this a worst case?		Yes	
6.	Conditioned floor area (ft²)		1742 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=0.6)	17.4 ft²	
b.	SHGC:			
	(or Clear or Tint DEFAULT)	7b. (Clear)	55.7 ft²	
8.	Floor types			
a.	Raised Wood, Stem Wall		R=19.0, 1742.0ft²	
b.	N/A			
c.	N/A			
9.	Wall types			
a.	Frame, Wood, Exterior		R=13.0, 1273.0 ft²	
b.	N/A			
c.	N/A			
d.	N/A			
e.	N/A			
10.	Ceiling types			
a.	Under Attic		R=30.0, 1742.0 ft²	
b.	N/A			
c.	N/A			
11.	Ducts			
a.	Sup: Unc. Ret: Unc. AH: Attic		Sup. R=6.0, 200.0 ft	
b.	N/A			

12.	Cooling systems		
a.	Central Unit	Cap: 48.0 kBtu/hr	
		SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 34.1 kBtu/hr	
		HSPF: 6.60	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 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,	

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.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	PRE-41FL	Builder:	
Address:	PRE-41FL CENTRAL	Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	Central		

1.	New construction or existing	New	
2.	Single family or multi-family	Single family	
3.	Number of units, if multi-family	1	
4.	Number of Bedrooms	4	
5.	Is this a worst case?	Yes	
6.	Conditioned floor area (ft²)	1742 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=0.6) 17.4 ft²	
b.	SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 55.7 ft²	
8.	Floor types		
a.	Raised Wood, Stem Wall	R=19.0, 1742.0ft²	
b.	N/A		
c.	N/A		
9.	Wall types		
a.	Frame, Wood, Exterior	R=13.0, 1273.0 ft²	
b.	N/A		
c.	N/A		
d.	N/A		
e.	N/A		
10.	Ceiling types		
a.	Under Attic	R=30.0, 1742.0 ft²	
b.	N/A		
c.	N/A		
11.	Ducts		
a.	Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 200.0 ft	
b.	N/A		

12.	Cooling systems		
a.	Central Unit	Cap: 48.0 kBtu/hr SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 34.1 kBtu/hr HSPF: 6.60	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 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,	

APPROVED
OCT 31 2005
HWC
HEARN, WERNER, CARTER & ASSOC.

SEE MANUFACTURER'S CONTRACT WITH FLORIDA DCA

Glass/Floor Area: 0.11

Total as-built points: 26581

Total base points: 27123

PASS

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

PREPARED BY: _____

DATE: 10/17/05

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.

BUILDING OFFICIAL: _____

DATE: 10.27.05

Plan No: R-2531.0900F
Approved By JAMES A. LYONS

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

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

James A. Lyons
Modular Building Plans Examiner
Florida License No. SMP-12

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	1742.0	25.78	8083.6	Double,U=0.48,Clear	W	0.0	0.0	60.0	51.98	1.00	3118.8
				Double,U=0.48,Clear	E	0.0	0.0	105.0	57.38	1.00	6024.5
				Double,U=0.48,Clear	S	0.0	0.0	8.3	43.70	1.00	362.7
				Double,U=0.60,Clear	W	0.0	0.0	17.4	51.31	1.00	892.8
				As-Built Total:				**190.7**			**10398.8**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1273.0	1.70		2164.1
Exterior	1273.0	1.90	2418.7								
Base Total:	**1273.0**		**2418.7**	**As-Built Total:**				**1273.0**			**2164.1**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	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	1742.0	2.13	3710.5	Under Attic			30.0	1742.0	2.13 X 1.00		3710.5
Base Total:	**1742.0**		**3710.5**	**As-Built Total:**				**1742.0**			**3710.5**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			19.0	1742.0	-1.80		-3135.6
Raised	1742.0	-3.43	-5975.1								
Base Total:			**-5975.1**	**As-Built Total:**				**1742.0**			**-3135.6**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1742.0	14.31	24928.0					1742.0	14.31		24928.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL CENTRAL, , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 33357.7			**Summer As-Built Points:**					**38257.8**
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 48000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			38258	1.00	(1.09 x 1.150 x 1.10)	0.284	0.950	14201.6
33357.7	**0.4266**	**14230.4**	**38257.8**	**1.00**	**1.375**	**0.284**	**0.950**	**14201.6**

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.8

The higher the score, the more efficient the home.

, PRE-41FL CENTRAL, , ,

1.	New construction or existing		New	
2.	Single family or multi-family		Single family	
3.	Number of units, if multi-family		1	
4.	Number of Bedrooms		4	
5.	Is this a worst case?		Yes	
6.	Conditioned floor area (ft²)		1742 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=0.6)	17.4 ft²	
	b. SHGC:			
	(or Clear or Tint DEFAULT)	7b. (Clear)	55.7 ft²	
8.	Floor types			
	a. Raised Wood, Stem Wall		R=19.0, 1742.0ft²	
	b. N/A			
	c. N/A			
9.	Wall types			
	a. Frame, Wood, Exterior		R=13.0, 1273.0 ft²	
	b. N/A			
	c. N/A			
	d. N/A			
	e. N/A			
10.	Ceiling types			
	a. Under Attic		R=30.0, 1742.0 ft²	
	b. N/A			
	c. N/A			
11.	Ducts			
	a. Sup: Unc. Ret: Unc. AH: Attic		Sup. R=6.0, 200.0 ft	
	b. N/A			

12.	Cooling systems		
	a. Central Unit	Cap: 48.0 kBtu/hr	
		SEER: 12.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 34.1 kBtu/hr	
		HSPF: 6.60	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 50.0 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.

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	1742.0	5.86	1837.5	Double,U=0.48,Clear	W	0.0	0.0	60.0	4.66	1.00	279.6	
				Double,U=0.48,Clear	E	0.0	0.0	105.0	3.98	1.00	417.6	
				Double,U=0.48,Clear	S	0.0	0.0	8.3	1.96	1.00	16.3	
				Double,U=0.60,Clear	W	0.0	0.0	17.4	6.28	1.00	109.2	
				As-Built Total:				**190.7**			**822.7**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1273.0	1.80	2291.4		
Exterior	1273.0	2.00	2546.0									
Base Total:	**1273.0**		**2546.0**	**As-Built Total:**				**1273.0**		**2291.4**		
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =	Points		
Adjacent	0.0	0.00	0.0	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	1742.0	0.64	1114.9	Under Attic			30.0	1742.0	0.64 X	1.00	1114.9	
Base Total:	**1742.0**		**1114.9**	**As-Built Total:**				**1742.0**			**1114.9**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =	Points		
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			19.0	1742.0	0.30	522.6		
Raised	1742.0	-0.20	-348.4									
Base Total:			**-348.4**	**As-Built Total:**				**1742.0**		**522.6**		
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =	Points		
	1742.0	-0.28	-487.8					1742.0	-0.28	-487.8		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL CENTRAL, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**4866.2**	**Winter As-Built Points:**					**4467.8**
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 34100 btuh ,EFF(6.6) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			4467.8	1.000	(1.078 x 1.160 x 1.11)	0.517	0.950	3046.5
4866.2	**0.6274**	**3053.0**	**4467.8**	**1.00**	**1.388**	**0.517**	**0.950**	**3046.5**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	
4		2460.00	9840.0	50.0	0.97	4	1.00	2333.20	1.00	9332.8	
				As-Built Total:						**9332.8**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
14230	**3053**	**9840**	**27123**	**14202**	**3047**	**9333**	**26581**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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.	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**PRE-41FL**	Builder:	
Address:	**PRE-41FL NORTH**	Permitting Office:	
City, State:	,	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	**North**		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 48.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 12.00
4. Number of Bedrooms	4	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft²)	1742 ft²	13. Heating systems	
7. Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		a. Electric Heat Pump	Cap: 34.1 kBtu/hr
a. U-factor: (or Single or Double DEFAULT)	Description Area 7a. (Dble, U=0.6) 17.4 ft²		HSPF: 6.60
b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 55.7 ft²	b. N/A	
8. Floor types		c. N/A	
a. Raised Wood, Stem Wall	R=19.0, 1742.0ft²	14. Hot water systems	
b. N/A		a. Electric Resistance	Cap: 50.0 gallons
c. N/A			EF: 0.97
9. Wall types		b. N/A	
a. Frame, Wood, Exterior	R=13.0, 1273.0 ft²	c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)	
b. N/A		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,
c. N/A			
d. N/A			
e. N/A			
10. Ceiling types			
a. Under Attic	R=30.0, 1742.0 ft²		
b. N/A			
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Attic	Sup. R=6.0, 200.0 ft		
b. N/A			

APPROVED
OCT 31 2005
HWC
HEIBORN, WERNER, CARTER & ASSOC.

SEE MANUFACTURER'S CONTRACT WITH FLORIDA DCA.

Glass/Floor Area: 0.11

Total as-built points: 27520

Total base points: 28571

PASS

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

PREPARED BY: _____

DATE: 10/17/05

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.

BUILDING OFFICIAL: _____

DATE: 10.27.05

Plan No. PE-2006.0900F
Approved By JAMES A. LYONS

GREAT SEAL OF THE STATE OF FLORIDA
IN GOD WE TRUST

Modular Building Plans Examiner
Florida License No. SMP-12

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: **PRE-41FL 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	1742.0	20.04	6283.7	Double,U=0.48,Clear	E	0.0	0.0	60.0	43.92	1.00	2635.0
				Double,U=0.48,Clear	W	0.0	0.0	105.0	40.43	1.00	4244.8
				Double,U=0.48,Clear	N	0.0	0.0	8.3	21.25	1.00	176.4
				Double,U=0.60,Clear	E	0.0	0.0	17.4	43.24	1.00	752.5
				As-Built Total:				**190.7**			**7808.7**
WALL TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1273.0	1.50		1909.5
Exterior	1273.0	1.70	2164.1								
Base Total:	**1273.0**		**2164.1**	**As-Built Total:**				**1273.0**			**1909.5**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	0.0	0.00	0.0	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	1742.0	1.73	3013.7	Under Attic			30.0	1742.0	1.73 X 1.00		3013.7
Base Total:	**1742.0**		**3013.7**	**As-Built Total:**				**1742.0**			**3013.7**
FLOOR TYPES	Area X	BSPM =	Points	Type			R-Value	Area X	SPM =		Points
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			19.0	1742.0	-1.50		-2613.0
Raised	1742.0	-3.99	-6950.6								
Base Total:			**-6950.6**	**As-Built Total:**				**1742.0**			**-2613.0**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1742.0	10.21	17785.8					1742.0	10.21		17785.8

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL NORTH, , ,** PERMIT #:

BASE			AS-BUILT					
Summer Base Points: 22540.7			**Summer As-Built Points:**					**28068.7**
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 48000 btuh ,SEER/EFF(12.0) Ducts:Unc(S),Unc(R),Att(AH),R6.0(INS)					
			28069	1.00	(1.09 x 1.147 x 1.11)	0.284	0.950	10524.8
22540.7	**0.4266**	**9615.9**	**28068.7**	**1.00**	**1.388**	**0.284**	**0.950**	**10524.8**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	1742.0	12.74	3994.8	Double,U=0.48,Clear	E	0.0	0.0	60.0	7.72	1.00	463.1	
				Double,U=0.48,Clear	W	0.0	0.0	105.0	9.51	1.00	998.9	
				Double,U=0.48,Clear	N	0.0	0.0	8.3	13.32	1.00	110.6	
				Double,U=0.60,Clear	E	0.0	0.0	17.4	11.42	1.00	198.6	
				As-Built Total:				**190.7**			**1771.3**	
WALL TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior			13.0	1273.0	3.40		4328.2	
Exterior	1273.0	3.70	4710.1									
Base Total:	**1273.0**		**4710.1**	**As-Built Total:**				**1273.0**			**4328.2**	
DOOR TYPES	Area X	BWPM =	Points	Type				Area X	WPM =		Points	
Adjacent	0.0	0.00	0.0	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	1742.0	2.05	3571.1	Under Attic			30.0	1742.0	2.05 X	1.00	3571.1	
Base Total:	**1742.0**		**3571.1**	**As-Built Total:**				**1742.0**			**3571.1**	
FLOOR TYPES	Area X	BWPM =	Points	Type			R-Value	Area X	WPM =		Points	
Slab	0.0(p)	0.0	0.0	Raised Wood, Stem Wall			19.0	1742.0	0.80		1393.6	
Raised	1742.0	0.96	1672.3									
Base Total:			**1672.3**	**As-Built Total:**				**1742.0**			**1393.6**	
INFILTRATION	Area X	BWPM =	Points					Area X	WPM =		Points	
	1742.0	-0.59	-1027.8					1742.0	-0.59		-1027.8	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL NORTH, , ,** PERMIT #:

BASE			AS-BUILT					
Winter Base Points:		**13412.5**	**Winter As-Built Points:**					**10372.4**
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 34100 btuh ,EFF(6.6) Ducts:Unc(S),Unc(R),Att(AH),R6.0					
			10372.4	1.000	(1.069 x 1.169 x 1.10)	0.517	0.950	6998.4
13412.5	**0.6274**	**8415.0**	**10372.4**	**1.00**	**1.375**	**0.517**	**0.950**	**6998.4**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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	
4		2635.00	10540.0	50.0	0.97	4	1.00	2499.18	1.00	9996.7	
				As-Built Total:						**9996.7**	

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
9616	**8415**	**10540**	**28571**	**10525**	**6998**	**9997**	**27520**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **PRE-41FL 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* = 83.6

The higher the score, the more efficient the home.

, PRE-41FL NORTH, , ,

1.	New construction or existing		New	
2.	Single family or multi-family		Single family	
3.	Number of units, if multi-family		1	
4.	Number of Bedrooms		4	
5.	Is this a worst case?		Yes	
6.	Conditioned floor area (ft²)		1742 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=0.6)	17.4 ft²	
b.	SHGC:			
	(or Clear or Tint DEFAULT)	7b. (Clear)	55.7 ft²	
8.	Floor types			
a.	Raised Wood, Stem Wall		R=19.0, 1742.0ft²	
b.	N/A			
c.	N/A			
9.	Wall types			
a.	Frame, Wood, Exterior		R=13.0, 1273.0 ft²	
b.	N/A			
c.	N/A			
d.	N/A			
e.	N/A			
10.	Ceiling types			
a.	Under Attic		R=30.0, 1742.0 ft²	
b.	N/A			
c.	N/A			
11.	Ducts			
a.	Sup: Unc. Ret: Unc. AH: Attic		Sup. R=6.0, 200.0 ft	
b.	N/A			

12.	Cooling systems		
a.	Central Unit	Cap: 48.0 kBtu/hr	
		SEER: 12.00	
b.	N/A		
c.	N/A		
13.	Heating systems		
a.	Electric Heat Pump	Cap: 34.1 kBtu/hr	
		HSPF: 6.60	
b.	N/A		
c.	N/A		
14.	Hot water systems		
a.	Electric Resistance	Cap: 50.0 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.

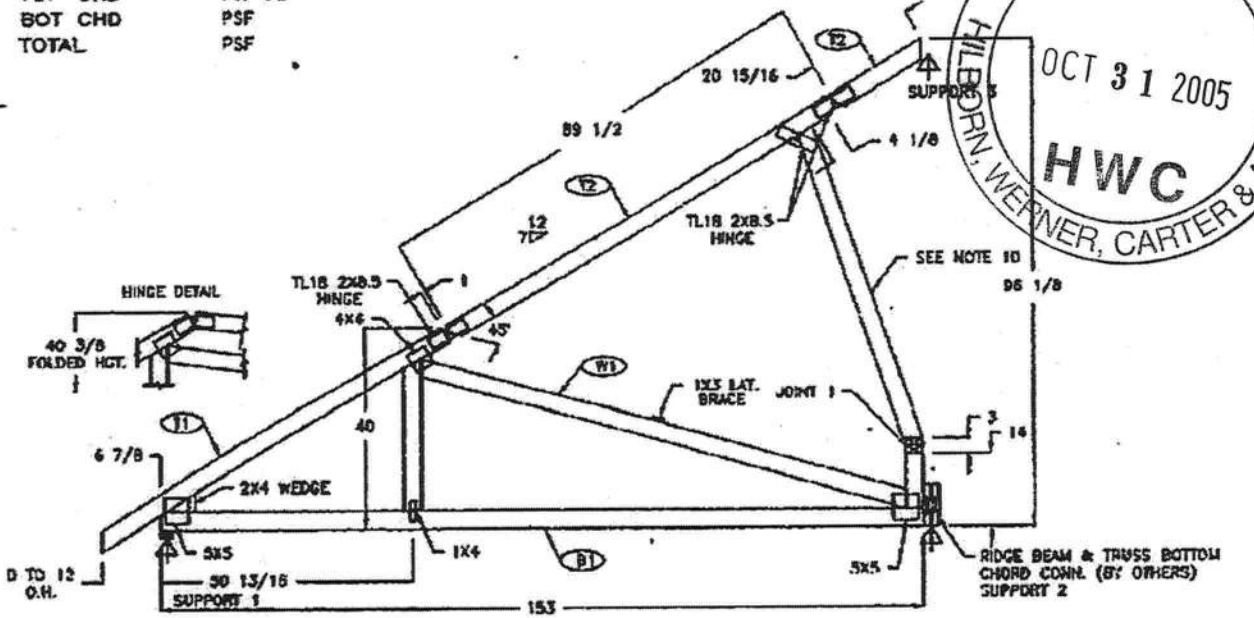
Florida Product Approval Specification Sheet

Manufacturer: Precision Homes Plan# 2056-0900F

2004 Approvals Budgeport PRE-41FL

CATEGORY	MANUFACTURER	PRODUCT DESCRIPTION	APPROVAL # (S)
EXTERIOR DOORS			
SWINGING	Plast Pro Inc.	Exterior Door	FL-4764, FL-4760
	McPhillips Mfg. Corp.	Exterior Door	FL-5464,5466-5469-R1
	Masonite Intl.	Exterior Door	FL-4334-R1, 4668-R1
SLIDING			
	Pella	Sliding Glass Door	FL428-439-R1
	Kinro	Sliding Glass Door	FL-2865
WINDOWS			
SINGLE HUNG	Kinro	9750 Series	FL-993-R1
	Action Windoor Technology	Brick Mould Series 2900F	FL-1782-R1
	West Windows	Allweld II	FL-5411
ROOFING PRODUCTS			
RIDGE VENT	Air Vent Inc.	Ridge Vent	FL-1607
ASPHAULT SHINGLES	Owens Corning	Asphault Shingles	FL-3633-R1
	Tamko Roofing Products	Asphault Shingles	FL-1956-R1
	GAF Materials	Asphault Shingles	FL-183-R1
UNDERLAYMENT	Tamko Roofing Products	Felt Paper	FL-1481-R1, FL1744-R1
	Warrior Roofing	Felt Paper	FL-2346-R1, 4302-R1
TRUSS PLATES	Mitek Industries	16, 18, & 20 GA Plates	FL-2197-R1
STRUCTURAL COMPONETS			
Wood Connectors	Simpson Strong Tie	Straps and Anchors	FL-474-R1, FL-1725-R1,
			FL-1218-R1, FL-1463-R1,
			FL-1901-R2, FL-538-R1
			FL-503-R1, FL-1423-R2
Uplift Straps	Elixir Industries	1 1/2" x 26 GA. Straps	Approval Pending

DESIGN			LOADS @ 24 IN C/C			LUMBER		MARK	
SPAN	12.75	FT.	TOP CHD	30	PSF LL	TOP CHD	2X4 NO. 2	SO. PINE	(T1)
SPACING	24	IN.	TOP CHD	10	PSF DL	TOP CHD	2X4 NO. 2	SO. PINE	(T2)
INCREASE	15	%	BOT CHD	10+10	PSF LL+DL	BOT CHD	2X4 NO. 2	SO. PINE	(B1)
CODE	BOCA		TOTAL	60	PSF	BOT CHD			(B2)
PLATE MFG	TEELOX 20 GA.					WEBS			(W1)
	SBCCI		ALT LOADS @		IN C/C	WEBS			(W2)
	UBC					WEBS			(W3)
			TOP CHD		PSF LL	WEBS	2X4 NO. 3	SO. PINE	OTHERS
			TOP CHD		PSF DL				
			BOT CHD		PSF				
			TOTAL		PSF				



NOTES:

1) MAX. PURLIN SPACING= 2.0 FT.
2) MANUFACTURING TOLERANCES
   1/4 IN. OVERALL HEIGHT
   1/4 IN. OVERALL LENGTH
   1 IN. VERTICAL POST PLACEMENT
3) FOR ON-SITE CONNECTIONS, REFER TO CHARTS A AND B IF SHOWN.
4) ALL CONNECTOR PLATES ARE TO BE INSTALLED ON BOTH SIDES UNLESS OTHERWISE INDICATED.
5) BEARING ARROW INDICATE 2-1/2 BEARING UNLESS OTHERWISE INDICATED.
6) BOTTOM CHORD CAMBER 5/16th.
7) OVERHANG AND/OR SOFFIT BLOCK MAY BE CUT BACK UP TO THE HEEL OF THE TRUSS AS NEEDED. OVERHANG MAY BE MANUFACTURED AT ANY LENGTH UP TO THE MAXIMUM SHOWN.
8) PROVISIONS MUST BE MADE TO PREVENT LATERAL MOVEMENT OF THE TOP CHORD DURING TRANSPORTATION.
9) THIS DESIGN ASSUMES THE TOP & BOTTOM CHORDS ARE CONTINUOUSLY BRACED BY PROPERLY APPLIED RIGID SHEATHING (PLYWOOD DECKING OR DRYWALL)
10) KNEEWAL NOT DESIGNED FOR EXPOSURE TO WIND.

CHART A	ON-SITE CONNECTIONS (BY OTHERS)		
	AXIAL COMPRESSION --><--	AXIAL TENSION <-->	SHEAR
JOINT 1	378#	378#	N/A

CHART B	REACTIONS		
	VERTICAL	HORIZONTAL	UPLIFT
SUPPORT 1	819#	396#	228#
SUPPORT 2	893#	N/A	280#
SUPPORT 3	45#	N/A	81#

- ARROWHEADS POINT TO LENGTH DIMENSIONS
- FOR PLATE LENGTH DIMENSION IN DIRECTION OF ELONGATED PLATE HOLES
- DO NOT SCALE THIS DRAWING FOR DIMENSIONS
- ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
- ALL PLATES PLACED SYMMETRICALLY ON JOINTS UNLESS NOTED OTHERWISE

THIS TRUSS WAS DESIGNED IN ACCORDANCE W:
1) ANSI/TPI-95 & NDS-97.
2) 99 SOCA SEC. 2313.3
3) 94 SBC SEC. 2309.2.2
4) 97 UBC SEC. 2321.1
5) ASCE-7-83 C/C,Int. Zone,V=110mph,I=1.0,Z=15ft,Exp.C

COMPONENTS WITH DESIGN METHODS AND PROCEDURES DOES NOT INCLUDE ERECTION, BRACING OF TRUSSES WITH ALL APPLICABLE DIMENSIONS, SHOP AND CODES. THE BUILDING ARCHITECT OR ENGINEER IS RESPONSIBLE TO INSURE ALL APPLICABLE REQUIREMENTS ARE SATISFIED.

USE OF THIS STRUCTURAL COMPONENT IN A COMPLETE STRUCTURE MUST BE AT THE SPECIFICATION OF THE DESIGNER OF SAID COMPLETE STRUCTURE. ALL LATERAL BRACING SPECIFIED HEREON IS FOR BRACING INDIVIDUAL TRUSS MEMBERS ONLY. RESTRAINT OF LATERAL BRACING AND ADDITIONAL BRACING FOR OVERALL STRUCTURE IS TO BE PROVIDED BY DESIGNER OF COMPLETE STRUCTURE.

CONNECTOR PLATES SHALL BE MANUFACTURED FROM 20 GAUGE HOT DIPPED GALVANIZED STEEL, MEETING ASTM A 653, GRADE 40, UNLESS OTHERWISE SHOWN.

UNIVERSAL FOREST PRODUCTS, INC.
3153 THREE MILE RD. N.E.
GRAND RAPIDS, MICHIGAN 49505
PHONE: (616) 364-6161

SCALE	1/2"=1'
DATE	7/13/01
DRAWN BY	MP
CHECKED BY	
APPROVED BY	
JOB	15948

UNIVERSAL FOREST PRODUCTS, INC.
CORPORATE OFFICES ~ GRAND RAPIDS, MI.

DRAWN FOR	SWEETWATER 315
TITLE	HINGE MOND-PITCH
DRWG. NO.	HM2297R01

APPROVED
OCT 31 2005
HWC
HILBORN, WERNER, CARTER & ASSOC.

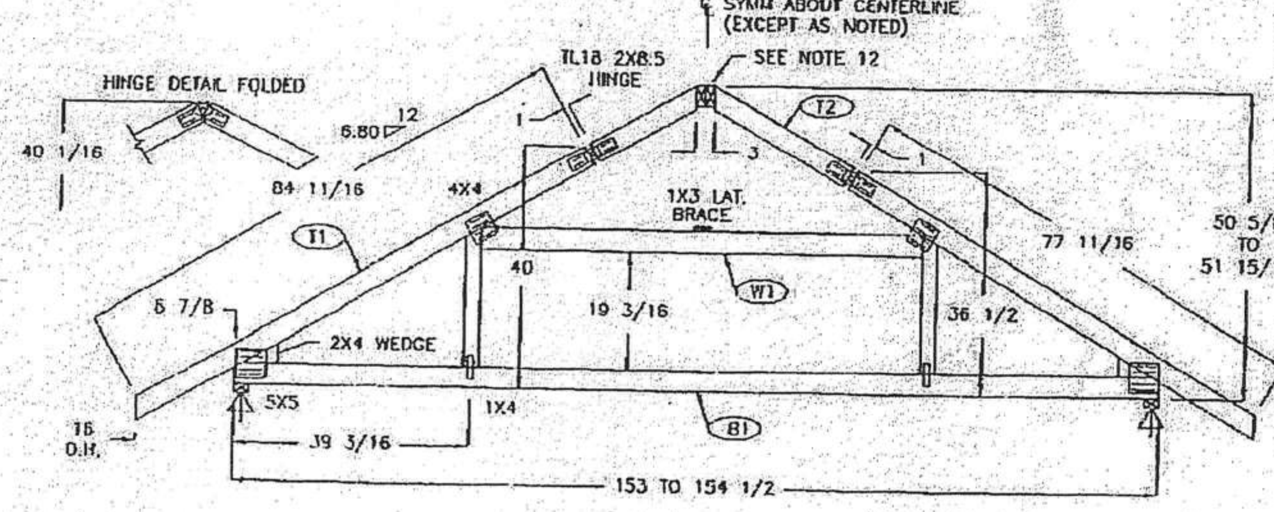
P283301

NOTES:

1) ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE.
2) ALL CONNECTOR PLATES ARE TO BE INSTALLED ON BOTH SIDES UNLESS OTHERWISE INDICATED.
3) ALL PLATES TO BE PLACED SYMMETRICALLY ON JOINTS UNLESS NOTED OTHERWISE.
4) PLACE PLATE SO THAT ELONGATED PUNCH HOLES ARE PARALLEL WITH LINES INDICATED ON DRAWING.
5) BEARING ARROW INDICATES 2-1/2" BEARING UNLESS OTHERWISE INDICATED.
6) TOP CHORD OVERHANG AND/OR SOFFIT BLOCK MAY BE CUT BACK TO THE HEEL OF THE TRUSS. OVERHANG MAY BE MFG. AT ANY LENGTH UP TO THE MAXIMUM SHOWN.
7) THIS DESIGN ASSUMES THE TOP & BOTTOM CHORDS ARE CONTINUOUSLY BRACED BY PROPERLY APPLIED RIGID SHEATHING (PLYWOOD DECKING OR DRYWALL).
8) TRUSS MEMBERS SHALL NOT BE CUT, DRILLED, SLICED, NOTCHED OR OTHERWISE ALTERED WITHOUT WRITTEN APPROVAL OF THE DESIGN ENGINEER.
9) INDICATED TRUSS PITCH IS APPROXIMATE. ALWAYS REFER TO THE ACTUAL DIMENSIONS BEFORE CUTTING.
10) PROVISIONS MUST BE MADE TO PREVENT LATERAL MOVEMENT OF THE TOP CHORD DURING TRANSPORTATION. EXTREME CARE MUST BE UTILIZED ROTATING THE TOP CHORD INTO PLACE. TAKE PRECAUTION TO KEEP THE CHORDS IN PLANE, ANY BENDING OR TWISTING OF THE HINGE PLATE MUST BE REPAIRED BEFORE THE BUILDING IS PUT INTO SERVICE.
11) TRUSS PRODUCTION MUST BE CONDUCTED UNDER A QUALITY CONTROL PROGRAM ADMINISTERED BY AN INDEPENDENT THIRD PARTY INSPECTION AGENCY.
12) FOR PROPER PERFORMANCE, BUILDER MUST PROVIDE ADEQUATE FIELD CONNECTIONS. SIZE CONNECTIONS TO RESIST THE FORCES SHOWN IN CHARTS A&B OR A MINIMUM OF 200# AXIAL FORCE AND SHEAR.
13) TRUSSES SHALL BE BRACED ACCORDING TO T.P.I.'S H.I.B.-91, HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES.
14) FOR MONO-SLOPED DESIGNS, THE UNBALANCED LOADING CONDITION ASSUMES AN IDENTICAL DESIGN MIRRORED ABOUT THE CENTERLINE TO CREATE A SYMMETRICAL TRUSS.

GEORGIA REGISTERED No. 20409 PROFESSIONAL ENGINEER KEVIN W. PRZEDAN
2-19-2002
ENGINEER APPROVAL

•APPROVED• OCT 31 2005 HWC HILBORN, WERNER, CARTER & ASSOC.



...eGroup\Trussgrp\Support\MasterBlocks\Modular01.dwg (1/14/02)

15) TRUSS WAS DESIGNED IN ACCORDANCE WITH:
1997 NDS & TPI 1-1995
2000 IBC Section 2308.10.7.1;2000 IRC R802.10
ASCE 7-98 C/C,Int. Zone,130mph,I=1.0,Z=25ft,Exp.C,
Reg.Shape,Eff. Area=50sf.,Bldg. Cat.II,Enclosed
Snow: Ce=1.0, Ct=1.0, I=1.0, Cat. II Bldg.

[illegible fine print]

LUMBER COMPONENTS		MARK
TOP CHD 2X4 STUD	SPF	(T1)
TOP CHD		(T2)
BOT CHD 2X4 NO. 2	SPF	(B1)
BOT CHD		(B2)
WEBS 2X6 NO. 2	SPF	(W1)
WEBS		(W2)
WEBS		(W3)
WEBS 2X3 STUD	SPF	OTHERS
GRAVITY CO. Lic. 1.15 Plate 1.15	Wind Co.	Lic. 1.60 Plate 1.33

GRAVITY LOADS	24	16
TCLL PSF:	30.0	45.0
TCDL PSF:	10.0	15.0
BCLL PSF:	10.0	15.0
BCDL PSF:	10.0	15.0

Chkd for Unbalanced load of 1.5(Pg)/Ce ... psf

ON-SITE CONNECTIONS (SEE NOTE 12) CHART A	AXIAL COMP.	AXIAL TENSION	SHEAR
JOINT 1	-.-	-.-	-.-
JOINT 2	-.-	-.-	-.-
JOINT 3	-.-	-.-	-.-
JOINT 4	-.-	-.-	-.-

CHART B REACTIONS	VERT	HORIZ	UPLIFT
SUPPORT 1	803#	-.-	512#
SUPPORT 2	803#	-.-	512#
SUPPORT 3	-.-	-.-	-.-

CODE: IBC/IRC
DATE DRAWN: 2/19/2002
DRAWN BY: BR
APPROVED BY:
SCALE: 5/8=1
DO NOT SCALE DRAWING FOR DIMENSIONS

UNIVERSAL FOREST PRODUCTS, INC.
CORPORATE ENGINEERING
2801 EAST BELTLINE NE, GRAND RAPIDS, MI 49525
PHONE (616)-364-6161 FAX (616)-364-7331

DESIGN FOR: PRECISION
MFG. PLANT #: 316
DWG. NO.: P2163R01
JOB NUMBER: 18597
PLANT DESIGN #: REF. # D7715R01

D7715R01

SUNBELT ASHBURN GA 1 912 567 3886

Job	Truss	Truss Type	Qty	Ply	PRECISION HOMES 316 GA
24686	HM430802	HINGED MONO	1	1	bk DSG: AJS

Universal Forest Products, Kentwood, MI - 49512

REF # 3161257

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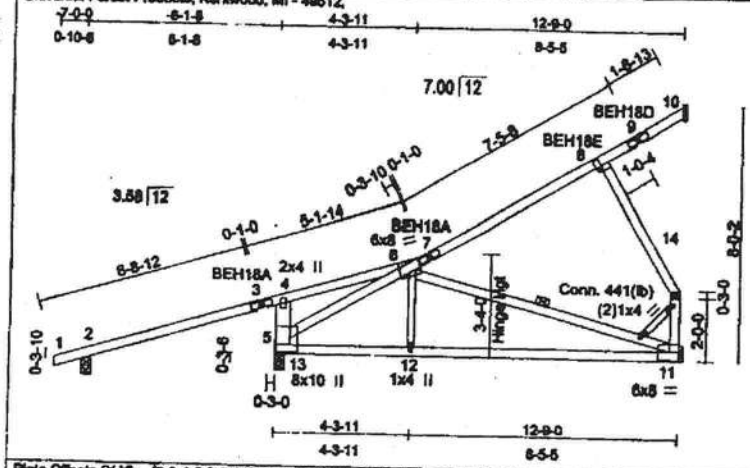

Plate Offsets (X,Y): [3:0-1-2,0-0-11], [6:0-6-0,0-4-0], [7:0-0-5,0-1-2], [8:0-0-11,0-1-2], [9:0-1-1,0-0-10], [13:0-0-9,0-2-13]

SPACING 2-0-0	ALT SPACING 1-4-0		CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LOADING (psf)	LOADING (psf)	Plates Increase 1.15	TC 0.77	Vert(LL)	-0.32	11-12	>464	240	MII20	197/144
TCLL 20.0	TCLL 30.0	Lumber Increase 1.15	BC 0.75	Vert(TL)	-0.38	11-12	>387	180		
TCDL 10.0	TCDL 15.0	Rep Stress Incr YES	WB 0.60	Horz(TL)	-0.02	11	n/a	n/a		
BCLL 10.0	BCLL 15.0	Code IRC2000/ANSI95	(Matrix)						Weight: 68 lb	
BCDL 10.0	BCDL 15.0									

LUMBER
TOP CHORD 2 X 4 SPF No.2
BOT CHORD 2 X 4 SPF No.2
WEBS 2 X 3 SPF Stud *Except*
6-14 2 X 4 SPF Stud, 6-11 2 X 4 SPF No.2, 11-14 2 X 4 SPF No.2, 4-13 2 X 6 SPF No.3

REACTIONS (lb/size) 13=789/0-3-8, 13=789/0-3-8, 11=628/Mechanical, 10=0/Mechanical, 2=202/0-3-8
Max Horz 13=779(load case 5), 13=61(load case 1), 10=126(load case 5)
Max Uplift 13=-793(load case 5), 11=-599(load case 5), 2=-531(load case 5)
Max Grav 13=837(load case 2), 13=789(load case 1), 11=803(load case 2), 2=257(load case 2)

FORCES (lb) - First Lead Case Only
TOP CHORD 11-14=-165, 5-6=-1087, 6-7=-278, 7-8=-193, 8-9=-118, 9-10=-70, 1-2=15, 2-3=-33, 3-4=50, 4-5=256
BOT CHORD 12-13=641, 11-12=674
WEBS 6-14=-214, 6-12=257, 6-11=-693, 5-13=-750, 4-5=-220

NOTES
1) Wind: ASCE 7-98; 130mph; h=30ft; TCDL=6.0psf; BCDL=6.0psf; Category II; Exp C; enclosed;C-C exterior zone; cantilever left and right exposed ;Lumber DOL=1.60 plate grip DOL=1.33.
2) TCLL: ASCE 7-98; Pg= 20.0 psf (ground snow); Category II; Exp C; Partially Exp.; Ct=1.1; IBC-00 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table 1607.1 of IBC-00.
7) All plates are MII20 plates unless otherwise indicated.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 793 lb uplift at joint 13, 599 lb uplift at joint 11 and 531 lb uplift at joint 2.
9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
10) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
11) Truss members shall not be cut, drilled, sliced, notched or otherwise altered without written approval of the design engineer.
12) Provisions must be made to prevent lateral movement of the top chord during transportation. Extreme care must be utilized rotating the top chord into place.
13) Take precaution to keep the chords in plane, any bending or twisting of the hinge plate must be repaired before the building is put into service.
14) This truss has been designed to meet 2000 IBC, Section 2308.10.7.1;2000 IRC R802.10 .
15) This truss has been designed to meet 1999 Standard Building Code (SBCCI), Sec. 2309.2 .
16) This truss is based on HM430801. Lateral brace at joint 15 moved to center of diagonal web.

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-15 oc bracing.
WEBS 1 Row at midpt 6-11

[P]

GEORGIA REGISTERED No. 28839 PROFESSIONAL ENGINEER ALVIN W. FREEMAN 12/11/03

NORTH CAROLINA PROFESSIONAL SEAL 026074 ENGINEER ALVIN W. FREEMAN

SOUTH CAROLINA No. 20034 ALVIN W. FREEMAN

APPROVED
OCT 31 2005
HILBORN, WERNER, CARTER & ASSOC.

DEC 11 2003

WARNING - *Verify design parameters and READ NOTES*

Universal Forest Products, Inc. PHONE (616)-364-6161 FAX (616)-361-7534
2801 EAST BELTLINE RD. NE GRAND RAPIDS, MI 49505

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 QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installing and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive; Madison, WI 53719

HWC

ENGINEERING • INSPECTIONS
CERTIFICATIONS • TESTING

June 7, 2006

Precision Homes
305 East Third Street
Ocilla, GA 31774

RE: Manufacturer: Precision Homes
S/N, Size & Occupancy: Bridgeport Pre-41FL (2) 13 X 52 "R-3"
HWC Plan #: 2R-2056-0900F (1) 13 X 14
(1) 13 X 16

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 supplement, as noted on the approved drawings, subject to the following limitations:

1. Approval covers factory-built structure only.
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. Complies with Rule 9B-72 (Product Approval) as noted on plans.
5. Signed and sealed plans shall be on file with HWC Engineering.
6. 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 Modular / (727) 585-2392 Dapia / (727) 587-0447 Inspection