

DATE 04/20/2009

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT

000027757

APPLICANT JOHN HARRINGTON PHONE 386 462-5323
ADDRESS 24113 NW OLD BELLAMY RD HIGH SPRINGS FL 32643
OWNER ROBERT & DIANA WILLIAMS PHONE 697-1065
ADDRESS 1326 SW LEGION DR LAKE CITY FL 32055
CONTRACTOR HOUSE CRAFT HOMES PHONE 386 462-5323
LOCATION OF PROPERTY 90W, TL 247S, TR TAMARAK, TL LEGION DR.,3RD FROM THE
END ON LEFT
TYPE DEVELOPMENT SFD,UTILITY ESTIMATED COST OF CONSTRUCTION 115000.00
HEATED FLOOR AREA 2236.00 TOTAL AREA 2300.00 HEIGHT STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
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 PP DEVELOPMENT PERMIT NO.

PARCEL ID 17-4S-16-03051-208 SUBDIVISION LEGION PLACE
LOT 8 BLOCK PHASE UNIT TOTAL ACRES 5.00

000001726 CRC058087
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
CULVERT 09-218 BK HD Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ONE FOOT ABOVE THE ROAD,

Check # or Cash 6143

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 Insulation 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 Pool date/app. by
Permanent power date/app. by C.O. Final date/app. by Culvert date/app. by
Pump pole date/app. by Utility Pole date/app. by M/H tie downs, blocking, electricity and plumbing date/app. by
Reconnection date/app. by RV date/app. by Re-roof date/app. by

BUILDING PERMIT FEE \$ 575.00 CERTIFICATION FEE \$ 11.50 SURCHARGE FEE \$ 11.50
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ 25.00 TOTAL FEE 698.00
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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED NOT SUSPENDED, ABANDONED OR INVALID WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS OT THE PREVIOUS INSPECTION.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.



27757

GTC Design Group, LLC
176 NW Lake Jeffery Road
Lake City, FL 32643
(Phone) 386.719.9985
(Fax) 386.719.8828
cwilliams@gtcdesigngroup.com

Proposed
Residential Finish Floor Elevation Letter

Owner: Robert L. & Diana H. Williams

Parcel Number: 17-4s-16-03051-208

For protection against water damage, the minimum finish floor elevation of the proposed structure shall be 12 inches above the existing ground at any point along the perimeter of the proposed structure. In no case shall the finish floor elevation be more than 12 inches below the centerline of the adjacent county road. No part of the property is within 'Flood Zone A' per 1988 FEMA flood panel 120070 0175B and 2009 FEMA flood panel 12023C0290C.

The ground around the proposed structure shall be graded such as to convey all stormwater runoff away from the proposed structure.

The above elevations are based on the structure's proposed location, approximately +/-100 feet East from the SW Legion Dr.

Chad Williams
P.E. License Number: 63144
May 4, 2009

Columbia County Building Permit Application

For Office Use Only		Application # <u>0904-13</u>	Date Received <u>4-9-09</u>	By <u>LH</u>	Permit # <u>27757/1726</u>
Zoning Official <u>BZR</u>	Date <u>5.04.09</u>	Flood Zone <u>XPR ph</u>	Land Use <u>A-3</u>	Zoning <u>A-3</u>	
FEMA Map # <u>NA</u>	Elevation <u>N/A</u>	MFE <u>1st</u>	River <u>N/A</u>	Plans Examiner <u>HO</u>	Date <u>4-15-09</u>
Comments _____					
<input checked="" type="checkbox"/> NOC <input checked="" type="checkbox"/> EH <input checked="" type="checkbox"/> Deed or PA <input checked="" type="checkbox"/> Site Plan <input checked="" type="checkbox"/> State Road Info <input type="checkbox"/> Parent Parcel # _____					
<input type="checkbox"/> Dev Permit # _____ <input type="checkbox"/> In Floodway <input type="checkbox"/> Letter of Auth. from Contractor <input type="checkbox"/> F W Comp. letter _____					
IMPACT FEES: EMS _____ Fire _____ Corr _____ Road/Code _____					
School _____ - TOTAL <u>N/A</u>					

Septic Permit No. _____ Cell 352 316-5320 Fax 386-454-0435

Name Authorized Person Signing Permit John Harrington Phone 386-462-5323

Address 24113 NW OLD BELLAMY RD HIGH SPRINGS FL 32643

Owners Name Robert & Diana Williams Phone 386-697-1065

911 Address 1326 SW LEGION DR

Contractors Name House Craft Homes LLC Phone 386-462-5323

Address 12501 US HWY 441 ALACHUA FL 32615

Fee Simple Owner Name & Address Robert Williams

Banding Co. Name & Address _____

Architect/Engineer Name & Address MARK DISOSWAY Lake City FL

Mortgage Lenders Name & Address First Federal Savings Bank of Florida

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

Property ID Number 17-45-16-03051-208 Estimated Cost of Construction 158,500.00

Subdivision Name Legion Place Lot 8 Block _____ Unit _____ Phase _____

Driving Directions 90 W to Home depot make left on Branford Hwy go to TAMARAK make rite go to Legion Drive turn left go almost to end lot on left 3rd from end

Number of Existing Dwellings on Property 0

Construction of SFR Total Acreage 5 Lot Size 470x465

Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 19'4"

Actual Distance of Structure from Property Lines - Front 90 Side 200' Side 200' Rear 320'

Number of Stories 1 Heated Floor Area 2236 Total Floor Area 2300 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.

SPOKE to John 4/15/09

TIME LIMITATIONS OF APPLICATION: An application for a permit for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a permit has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated.

TIME LIMITATIONS OF PERMITS: Every permit issued shall become invalid unless the work authorized by such permit is commenced within 180 days after its issuance, or if the work authorized by such permit is suspended or abandoned for a period of 180 days after the time work is commenced. A valid permit receives an approved inspection every 180 days. Work shall be considered not suspended, abandoned or invalid when the permit has received an approved inspection within 180 days of the previous approved inspection.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment: According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE: **YOU ARE HEREBY NOTIFIED** as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.


Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit including all application and permit time limitations.

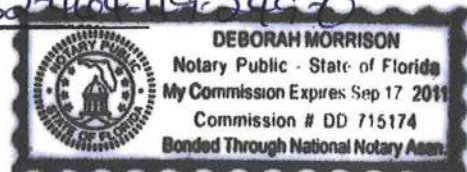

Contractor's Signature (Permitee)

Contractor's License Number CRC058087
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 10th day of April 2009.
Personally known _____ or Produced Identification FIDC HCS244019-2440


State of Florida Notary Signature (For the Contractor)

SEAL:

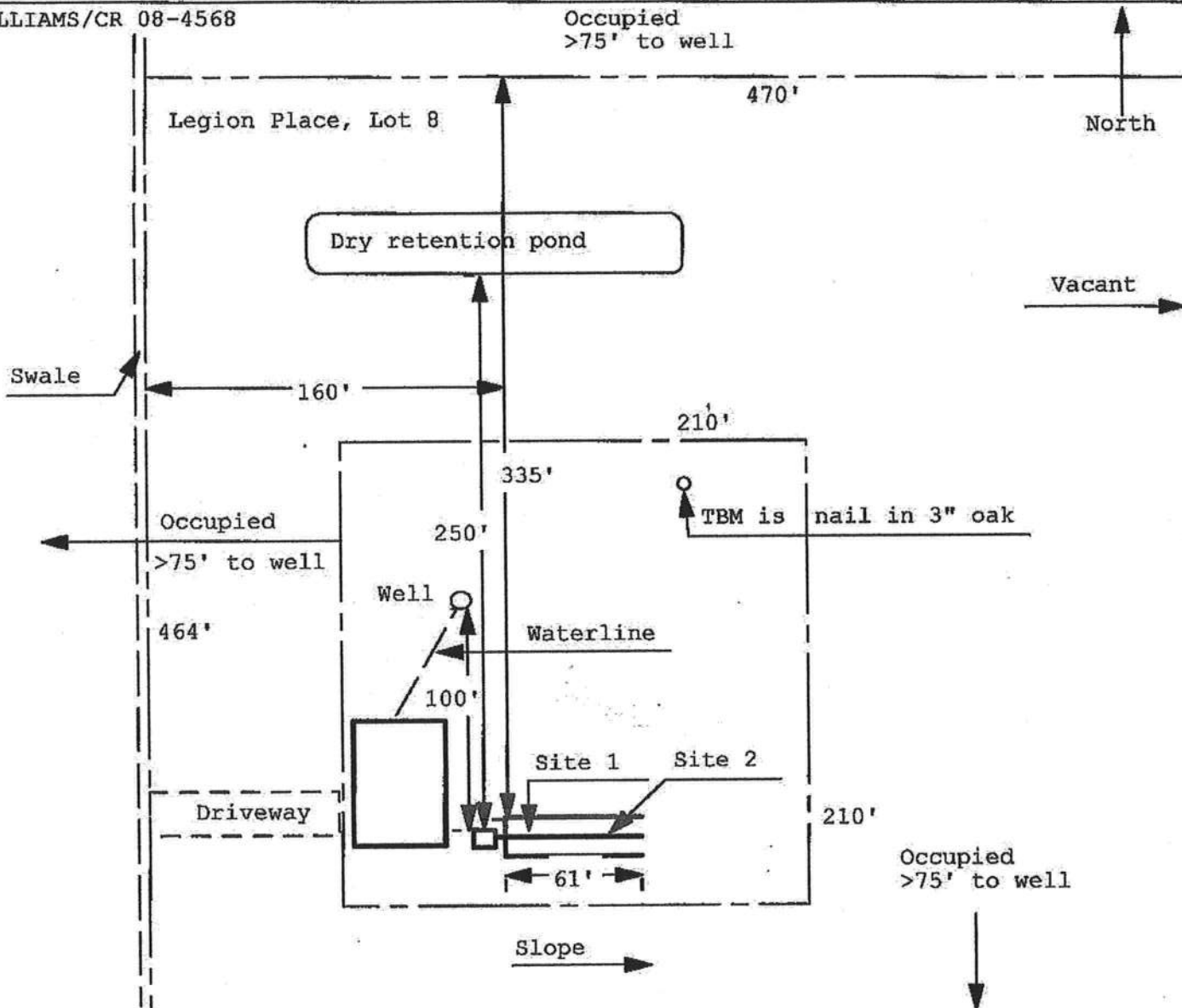


Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan Permit Application Number: _____

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WILLIAMS/CR 08-4568

Occupied
>75' to well



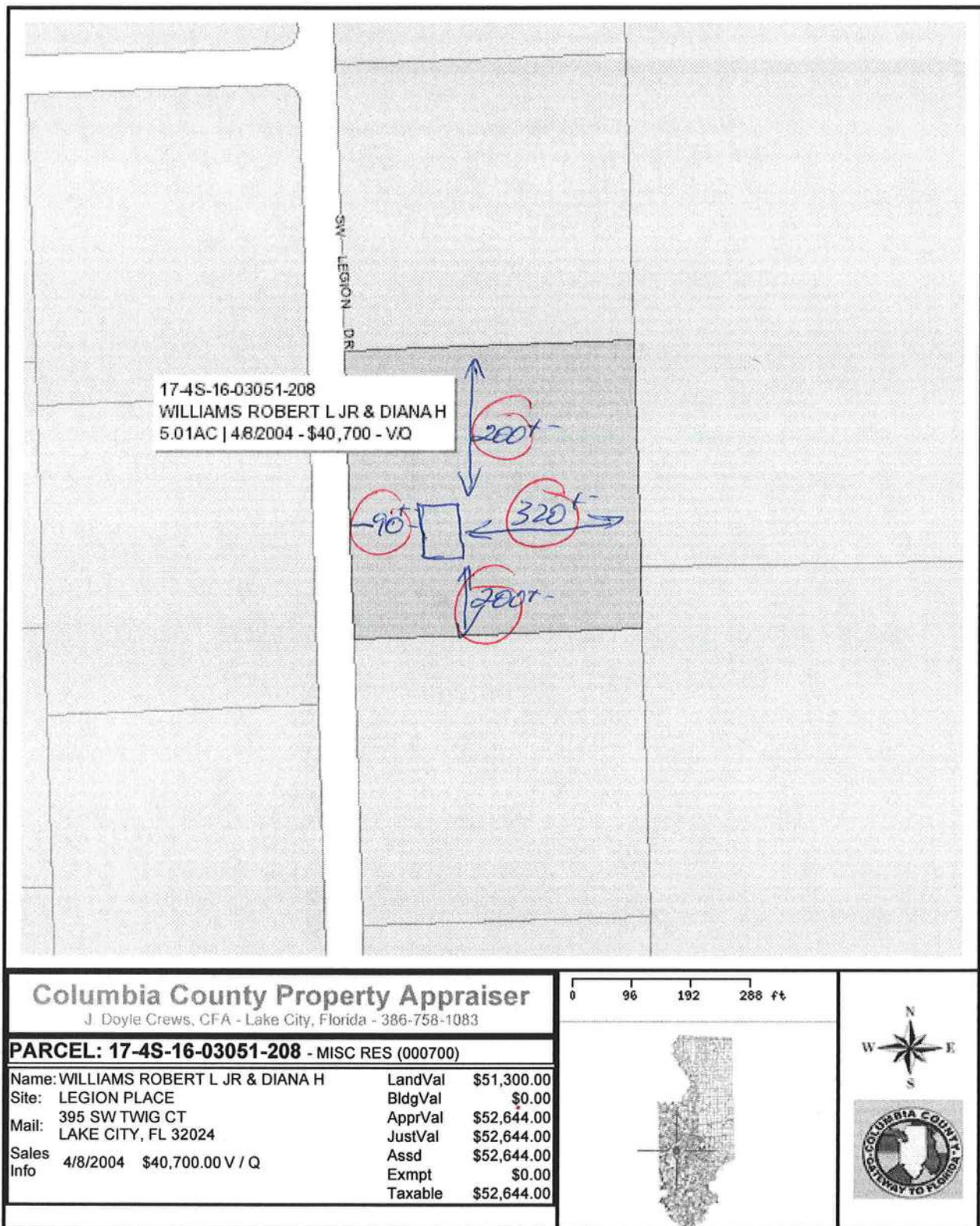
1 inch = 70 feet

Paul L. [Signature]

Site Plan Submitted By _____ Date 3/19/09
Plan Approved _____ Not Approved _____ Date _____

By _____ CPHU

Notes: _____



This information, GIS Map Updated: 3/5/2009, was derived from data which was compiled by the Columbia County Property Appraiser Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

ATS# 14050

Prepared by:
Teresa P. Baker
Abstract & Title Services, Inc.
382 SW Baya Dr.
Lake City, FL 32025

Warranty Deed

Individual to Individual

Inst. 004001824 Date: 04/13/2004 L. Fee: \$6.00
Doc. Stamp-Deed : 284.90
YRK DE P. Dewitt Casor, Columbia County B 1012 P. 165

THIS WARRANTY DEED made the 8th day of April, 2004,

Peter W. Giebeig
hereinafter called the grantor, to

Robert L. Williams, Jr., and Diana H. Williams
whose post office address is: 395 SW Twig Court, 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 corporation)

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, FLORIDA, viz: Parcel ID#

Lot 8, Legion Place, a subdivision according to the plat thereof recorded in Plat Book 7, Page 6, Public Records of Columbia County, Florida.

TOGETHER with all 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; that the grantor hereby fully 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, 2003.

IN WITNESS WHEREOF, the said grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Witness

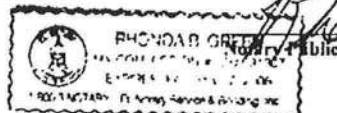
Peter W. Giebeig

Witness

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 8th day of April, 2004 by Peter W. Giebeig personally known to me or, if not personally known to me, who produced Driver's License No. _____ for identification and who did not take an oath.

(SEAL)



Contr: Housecraft
Homes

COLUMBIA
Permit # 27757
Jurisdiction 21000

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family	a. Concrete Block - Int Insul, Exterior	R=8.0	1530.70 ft ²
3. Number of units, if multiple family	1	b. N/A	R=	ft ²
4. Number of Bedrooms	5	c. N/A	R=	ft ²
5. Is this a worst case?	Yes	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2236	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2236.00 ft ²
a. U-Factor:	Dbl, U=0.55	b. Knee Wall (Vented)	R=30.0	221.00 ft ²
SHGC:	SHGC=0.70	c. N/A	R=	ft ²
b. U-Factor:	Dbl, U=0.55	11. Ducts		
SHGC:	SHGC=0.60	a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 447.2 ft ²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 48 kBtu/hr	
d. U-Factor:	N/A		SEER: 13	
SHGC:		13. Heating systems		
e. U-Factor:	N/A	a. Electric Heat Pump	Cap: 48 kBtu/hr	
SHGC:			HSPF: 8.3	
8. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R=0.0	2236.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
		14. Hot water systems		
		a. Electric	Cap: 60 gallons	
			EF: 0.9	
		b. Conservation features		
		None		
		15. Credits		Pstat

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: J. D. Hought

Date: 7-9-05

Address of New Home: 1326 SW Legion Dr

City/FL Zip: Lake City



Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

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The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing	New (From Plans)	9. Wall Types	Insulation	Area
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4. Number of Bedrooms	5	c. N/A	R=	ft ²
5. Is this a worst case?	Yes	d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2236	10. Ceiling Types	Insulation	Area
7. Windows**	Description	a. Under Attic (Vented)	R=30.0	2236.00 ft ²
a. U-Factor:	Dbl, U=0.55	b. Knee Wall (Vented)	R=30.0	221.00 ft ²
SHGC:	SHGC=0.70	c. N/A	R=	ft ²
b. U-Factor:	Dbl, U=0.55	11. Ducts		
SHGC:	SHGC=0.60	a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 447.2 ft ²		
c. U-Factor:	N/A	12. Cooling systems		
SHGC:		a. Central Unit	Cap: 48 kBtu/hr	
d. U-Factor:	N/A		SEER: 13	
SHGC:		13. Heating systems		
e. U-Factor:	N/A	a. Electric Heat Pump	Cap: 48 kBtu/hr	
SHGC:			HSPF: 8.3	
8. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R=0.0	2236.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
		14. Hot water systems		
		a. Electric	Cap: 60 gallons	
			EF: 0.9	
		b. Conservation features		
		None		
		15. Credits		Pstat

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: J. D. Hught Date: 4-9-09
Address of New Home: 1326 SW Leger Dr City/FL Zip: Lake City



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for 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 energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the

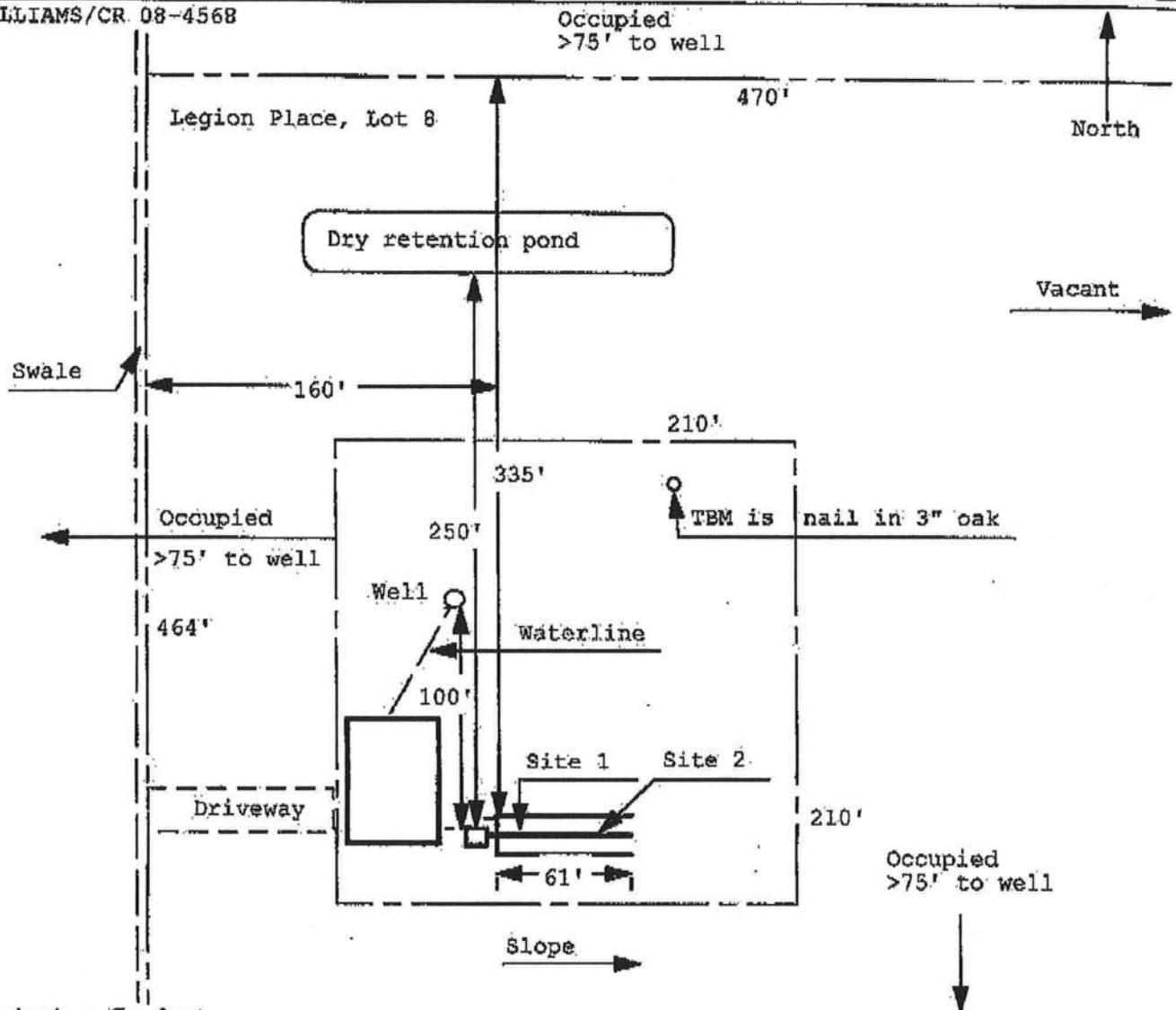
**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

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

Permit Application Number: 09-0218

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

WILLIAMS/CR. 08-4568



Site Plan Submitted By Paul L. Lee

Plan Approved ☒ Not Approved ☐

Date 3/19/09

Date 4-16-09

By M 02

Col. b.

CPHU

Notes:

STATE OF FLORIDA
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES
ON-SITE SEWAGE DISPOSAL SYSTEM
APPLICATION FOR CONSTRUCTION PERMIT
Authority: Chapter 381, FS & Chapter 10D-6, FAC

PERMIT #
DATE PAID
FEE PAID \$
RECEIPT #
CR #

09-0218
918517
419189
310.00
1169810
08-4568

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Temporary/Experimental System
☐ Repair ☐ Abandonment ☐ Other (Specify)

APPLICANT: ROBERT & DIANA WILLIAMSTELEPHONE: 386-488-5323AGENT: HOMES BY HOUSE CRAFT386-454-0435 JayMAILING ADDRESS: 12523 NW HIGHWAY 441CITY: ALACHUASTATE: FL ZIP: 32615

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. ATTACH BUILDING PLAN AND TO-SCALE SITE PLAN SHOWING PERTINENT FEATURES REQUIRED BY CHAPTER 10D-6, FLORIDA ADMINISTRATIVE CODE.

PROPERTY INFORMATION [IF LOT IS NOT IN A RECORDED SUBDIVISION, ATTACH LEGAL DESCRIPTION OR DEED]

LOT: 8 BLOCK: p/a SUBDIVISION: LEGION PLACE DATE SUBD: 01

PROPERTY ID #: 17-4S-16-03051-208 [Section/Township/Range/Parcel] ZONING: A5

PROPERTY SIZE: 5.01 ACRES [Sqft/43560] PROPERTY WATER SUPPLY: ☒ PRIVATE ☐ PUBLIC

PROPERTY STREET ADDRESS: SW LEGION DRIVE

DIRECTIONS TO PROPERTY: HIGHWAY 90 WEST, TL ON COUNTY ROAD 247, TR ON TAMARAK, TL ON LEGION DRIVE, SITE ON LEFT NEAR END

BUILDING INFORMATION

☒ RESIDENTIAL☐ COMMERCIAL

Unit No.	Type of Establishment	No. of Bedrooms	Building Area Sqft	# Persons Served	Business Activity For Commercial Only
1	HOUSE	5	2236	4	
2					
3					
4					

[N] Garbage Grinders/Disposals

[N] Spas/Hot Tubs

[N] Floor/Equipment Drains

[N] Ultra-low Volume Flush Toilets

[N] Other (Specify)

APPLICANT'S SIGNATURE: J. WilliamsDATE: 4-6-09

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 1326 SW Legion De
Lake City, FL, 32024-

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	NA
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	N1112.AB.2.3	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%. Heat pump pool heaters shall have a minimum COP of 4.0.	✓
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

✓

1

TEMPERATURES

Programmable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec

Thermostat Schedule: HERS 2006 Reference

Schedule Type

Hours[illegible]

DOORS

✓	#	Omt	Door Type	Storms	U-Value	Area
✓	1	N	Insulated	None	0.4	21.67 ft²
✓	2	E	Insulated	None	0.46	34.67 ft²
✓	3	W	Insulated	None	0.46	21.67 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

✓	#	Omt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang		Int Shade	Screening
										Depth	Separation		
✓	1	N	Vinyl	Low-E Double	Yes	0.55	0.6	N	8.06 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
✓	2	N	Vinyl	Low-E Double	Yes	0.55	0.7	N	17.78 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
✓	3	S	Vinyl	Low-E Double	Yes	0.55	0.7	N	17.78 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
✓	4	E	Vinyl	Low-E Double	Yes	0.55	0.7	N	53.33 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
✓	5	W	Vinyl	Low-E Double	Yes	0.55	0.7	N	35.56 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None
✓	6	W	Vinyl	Low-E Double	Yes	0.55	0.7	N	49.78 ft²	2 ft 0 in	0 ft 4 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	— Forced Ventilation —		Run Time	Fan
							Supply CFM	Exhaust CFM	Fraction	Watts
✓	Default	0.00036	2111	7.08	115.9	218.0	0 cfm	0 cfm	0	0

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
✓	1	Central Unit	None	SEER: 13	48 kBtu/hr	1440 cfm	0.75	False

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ductless
✓	1	Electric Heat Pump	None	HSPF: 8.3	48 kBtu/hr	False

HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	0.9	60 gal	80 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	Cert #				ft²		
✓	None	None					

PROJECT

Title:	Williams Residence	Bedrooms:	5	Address Type:	Street Address
Building Type:	FLAsBuilt	Bathrooms:	0	Lot #	
Owner:	Robert & Diana Williams	Conditioned Area:	2236	SubDivision:	
# of Units:	1	Total Stories:	1	PlatBook:	
Builder Name:	House Craft Homes, LLC	Worst Case:	Yes	Street:	1326 SW Legion De
Permit Office:		Rotate Angle:	315	County:	Columbia
Jurisdiction:		Cross Ventilation:		City, State, Zip:	Lake City ,
Family Type:	Single-family	Whole House Fan:			FL, 32024-
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	191 ft	0	2236 ft²	0.3	0.2	0.5

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2501 ft²	0 ft²	Medium	0.96	No	0	26.6 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral celli	Vented	300	2236 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	2236 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	30	221 ft²	0.11	Wood

WALLS

✓	#	Omt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Concrete Block - Int Insul	8	325.33 ft²	1	0	0.75
_____	2	S	Exterior	Concrete Block - Int Insul	8	325.33 ft²	1	0	0.75
_____	3	E	Exterior	Concrete Block - Int Insul	8	440 ft²	1	0	0.75
_____	4	W	Exterior	Concrete Block - Int Insul	8	440 ft²	1	0	0.75

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**Florida Department of Community Affairs Residential Performance Method A**

Project Name: Williams Residence
 Street: 1326 SW Legion De
 City, State, Zip: Lake City, FL, 32024-
 Owner: Robert & Diana Williams
 Design Location: FL, Gainesville

Builder Name: House Craft Homes, LLC
 Permit Office:
 Permit Number:
 Jurisdiction:

1. New construction or existing	New (From Plans)
2. Single family or multiple family	Single-family
3. Number of units, if multiple family	1
4. Number of Bedrooms	5
5. Is this a worst case?	Yes
6. Conditioned floor area (ft ²)	2236
7. Windows	Description Area
a. U-Factor:	Dbl, U=0.55 174.22 ft ²
SHGC:	SHGC=0.70
b. U-Factor:	Dbl, U=0.55 8.06 ft ²
SHGC:	SHGC=0.60
c. U-Factor:	N/A ft ²
SHGC:	
d. U-Factor:	N/A ft ²
SHGC:	
e. U-Factor:	N/A ft ²
SHGC:	
8. Floor Types	Insulation Area
a. Slab-On-Grade Edge Insulation	R=0.0 2236.00 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²

9. Wall Types	Insulation Area
a. Concrete Block - Int Insul, Exterior	R=8.0 1530.70 ft ²
b. N/A	R= ft ²
c. N/A	R= ft ²
d. N/A	R= ft ²
10. Ceiling Types	Insulation Area
a. Under Attic (Vented)	R=30.0 2236.00 ft ²
b. Knee Wall (Vented)	R=30.0 221.00 ft ²
c. N/A	R= ft ²
11. Ducts	
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 447.2 ft ²	
12. Cooling systems	
a. Central Unit	Cap: 48 kBtu/hr SEER: 13
13. Heating systems	
a. Electric Heat Pump	Cap: 48 kBtu/hr HSPF: 8.3
14. Hot water systems	
a. Electric	Cap: 60 gallons EF: 0.9
b. Conservation features	
None	
15. Credits	Pstat

Glass/Floor Area: 0.082

Total As-Built Modified Loads: 39.91

Total Baseline Loads: 47.63

PASS

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

PREPARED BY: JO HUNYKDATE: 4-9-09

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

OWNER/AGENT: JO HUNYKDATE: 4-9-09

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: _____

**Columbia County Building Department
Culvert Permit**

**Culvert Permit No.
000001726**

DATE 04/20/2009 PARCEL ID # 17-4S-16-03051-208

APPLICANT JOHN HARRINGTON PHONE 386 462-5323

ADDRESS 24113 NW OLD BELLAMY RD HIGH SPRINGS FL 32643

OWNER ROBERT & DIANA WILLIAMS PHONE 386 697-1065

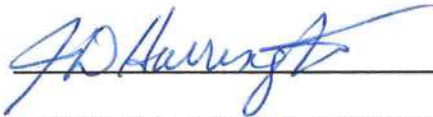
ADDRESS 1326 SW LEGION DRIVE LAKE CITY FL 32055

CONTRACTOR HOUSE CRAFT HOMES PHONE 386 462-5323

LOCATION OF PROPERTY 90W, TL ON 247S, TR TAMARAK, TL LEGION DRIVE, 3RD LOT FROM
END ON LEFT

SUBDIVISION/LOT/BLOCK/PHASE/UNIT LEGION PLACE 8

SIGNATURE



INSTALLATION REQUIREMENTS



Culvert size will be 18 inches in diameter with a total length of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:

- a) a majority of the current and existing driveway turnouts are paved, or;
 - b) the driveway to be served will be paved or formed with concrete.
- Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.



Culvert installation shall conform to the approved site plan standards.



Department of Transportation Permit installation approved standards.



Other _____

**ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED
DURING THE INSTALLATION OF THE CULVERT.**

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00



THIS INSTRUMENT PREPARED BY
AND RETURN TO:
NORTH CENTRAL FLORIDA TITLE, LLC
343 NW COLE TERRACE
SUITE 101
LAKE CITY, FLORIDA 32055

Parcel I.D. #: 03051-208
Permit No.

Inst 200912005679 Date 4/7/2009 Time: 1:57 PM
EXC P DeWitt Cason Columbia County Page 1 of 2 B 1170 P 1991

SPACE ABOVE THIS LINE FOR PROCESSING DATA

SPACE ABOVE THIS LINE FOR RECORDING DATA

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF COLUMBIA

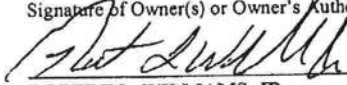
THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement. This Notice shall be void and of no force and effect if construction is not commenced within ninety (90) days after recordation.

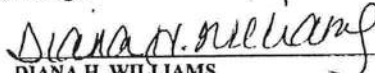
1. Description of property: (Legal description of property, and street address if available)

TBD SW LEGION DR., LAKE CITY, FL 32024
Lot 8, LEGION PLACE, according to the map or plat thereof as recorded in Plat Book 7, Page 6, of the Public Records of Columbia County, Florida.
2. General description of improvement: **CONSTRUCTION OF A SINGLE FAMILY DWELLING**
3. Owner information:
 - a. Name and address:
ROBERT L. WILLIAMS, JR. and DIANA H. WILLIAMS
395 SW TWIG COURT, LAKE CITY, FL 32024
 - b. Interest in property: **Fee Simple**
 - c. Name and Address of Fee Simple Titleholder (if other than owner):
4. Contractor: (Name and Address)
HOMES BY HOUSE CRAFT, LLC
12523 HWY 441, ALACHUA, FLORIDA 32615
Telephone Number: **386-462-5923**
5. Surety (if any):
 - a. Name and Address:
Telephone Number: _____
 - b. Amount of Bond \$ _____
6. Lender: (Name and Address)
FIRST FEDERAL BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: **755-0600**
7. Persons within the State of Florida designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(1)(a)(7), Florida Statutes: (Name and Address)
N/A
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes: (Name and Address)
FIRST FEDERAL BANK OF FLORIDA
4705 WEST U.S. HWY 90, P.O. BOX 2029, LAKE CITY, FL 32056
Telephone Number: **755-0600**
9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified) _____

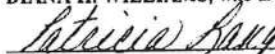
WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Signature of Owner(s) or Owner's Authorized Officer/Director/Partner/Manager:

 (SEAL)
ROBERT L. WILLIAMS, JR.

 (SEAL)
DIANA H. WILLIAMS

The foregoing instrument was acknowledged before me this 3rd day of April, 2009, by ROBERT L. WILLIAMS, JR. and DIANA H. WILLIAMS, who are personally known to me or who have produced driver's license as identification.

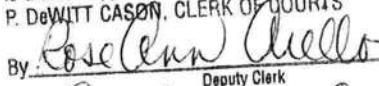

Notary Public

My Commission Expires: 12-14-10

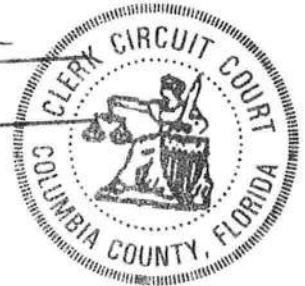


PATRICIA H. LANG
Commission DD 622516
Expires December 14, 2010
Bonded Thru Tary Pain Insurance 800-388-7019

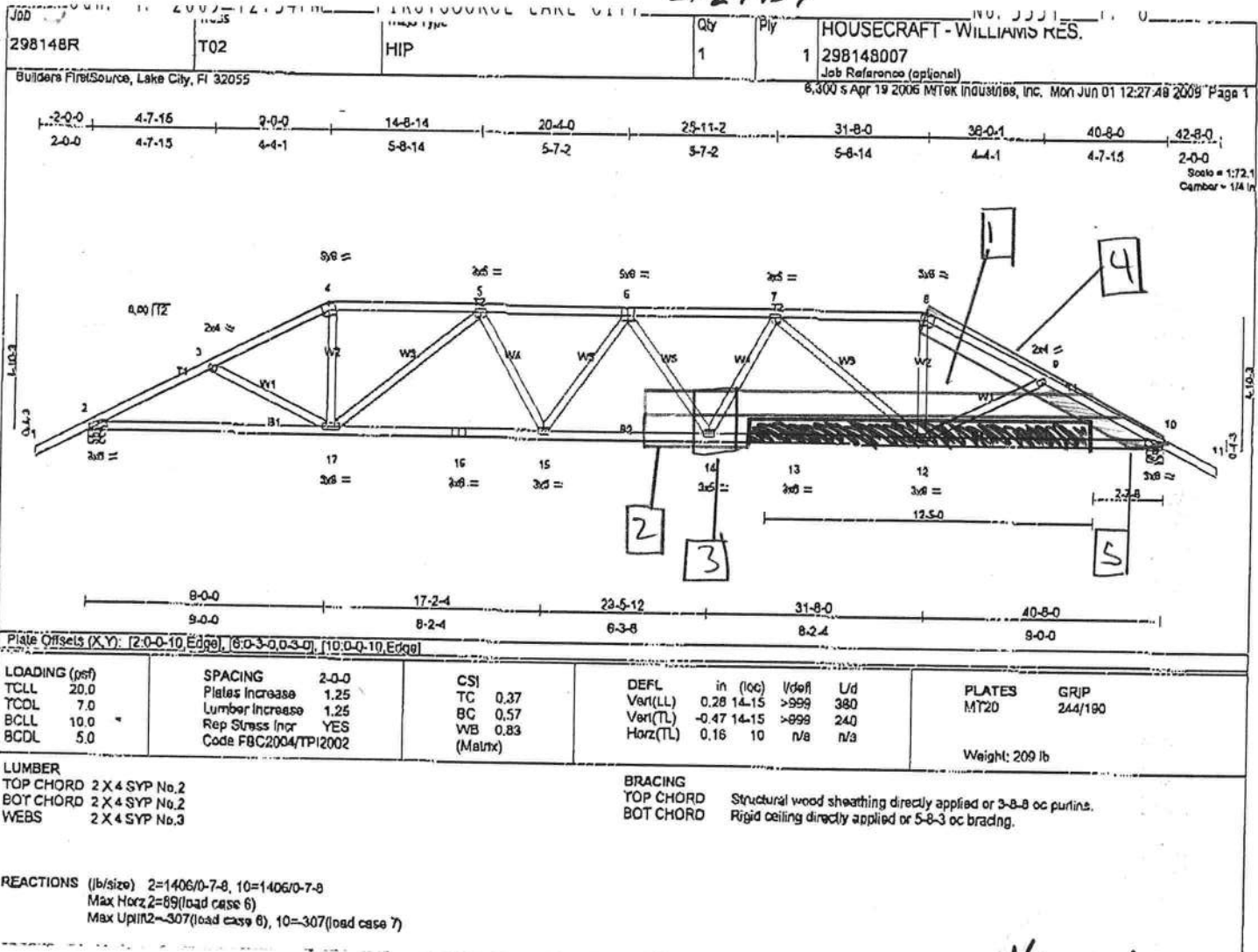
STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing
is a true copy of the original filed in this office.
P. DEWITT CASON, CLERK OF COURTS

By 
Deputy Clerk

Date April 20, 2009



#27757



Architectural Services & Engineering, Inc
CA 7882
24710 SR 54 Lutz, FL 33559

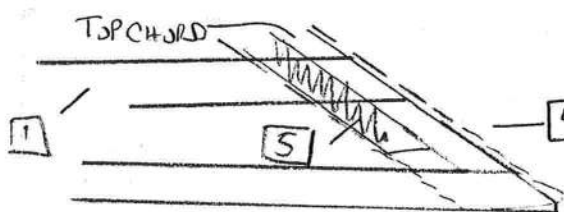
Robert W. Wall PE 46021

Handwritten signature and date:
6/1/09

Modification needed: **TRIMMED A MAXIMUM OF 12" AS SHOWN ABOVE.**

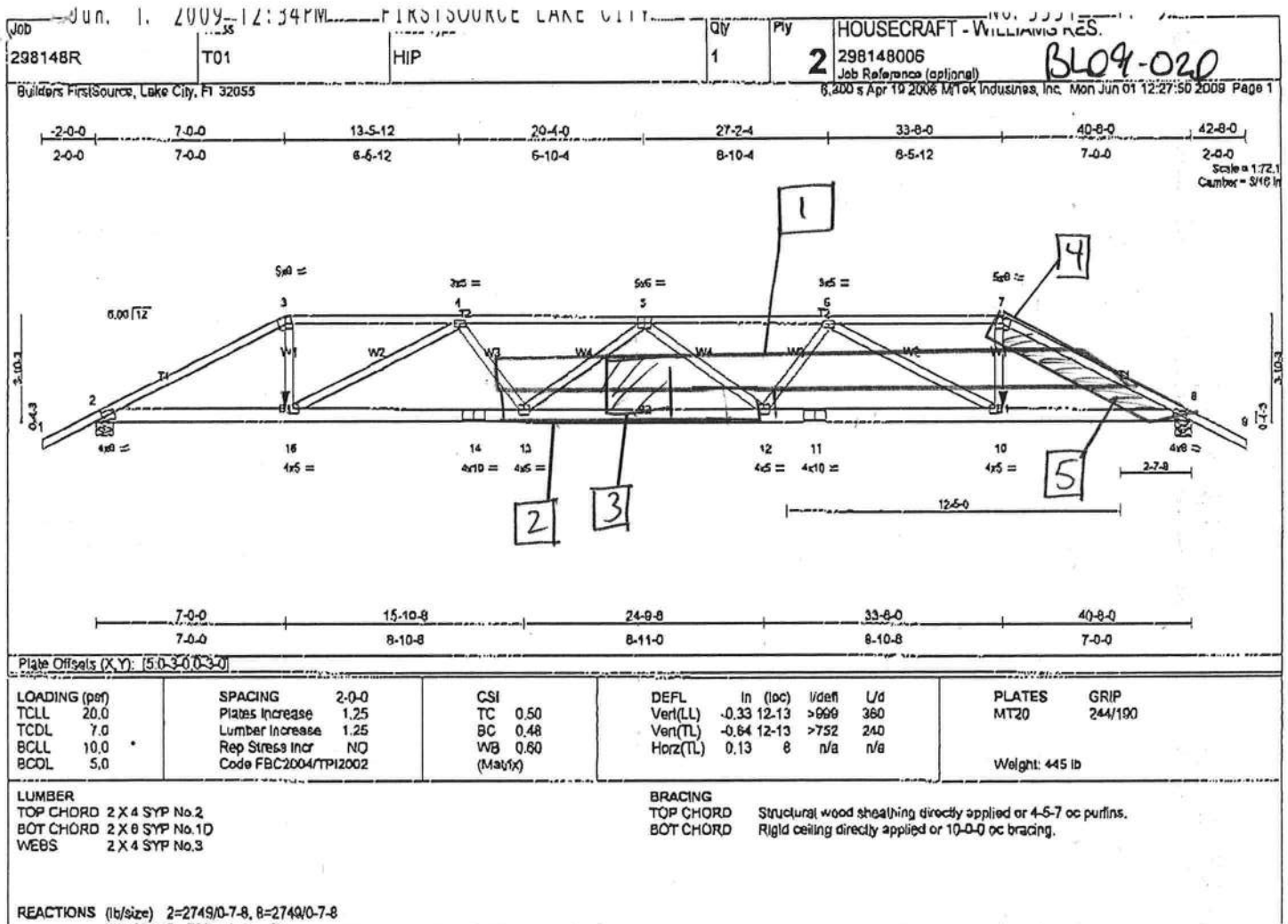
Solution:

1. 2x12x25'-0 No.2 SYP scab one face with 18-16d's at each member. If there is a splice in this scab use a 2x12x48" No.2 SYP splice plate with 35-10d's each side of the splice.
2. 2x12x5'-0" No.2 SYP scab one face with 16d's 3" o.c. at the bottom chord and 10-16d's at each web member.
3. (2) layers of 1/2" plywood or o.s.b one face of the scabs 24"x24" with (4) rows of 16d's 4" o.c. at each scab.
4. 2x12 NO.2 SYP scab at the opposite face of scab number -1- with 16d's 4" o.c. at the top chord and 10-16d's at each web member.
5. Between these two scabs use a 2x8x4'-0" No.2 SYP insert right beneath the truss top chord with 16d's 3" o.c. at scab number -4- and 12-16d's at scab number -1-.



NOTED TO SHOW THAT IT IS ON OPPOSITE FACE

All trusses must be in an un-deflected state. No loading or braced to no deflection. If conditions change from above notify truss manufacturer. Do not damage existing plates unless otherwise noted.



Architectural Services & Engineering, Inc
 CA 7882
 24710 SR 54 Lutz, FL 33559

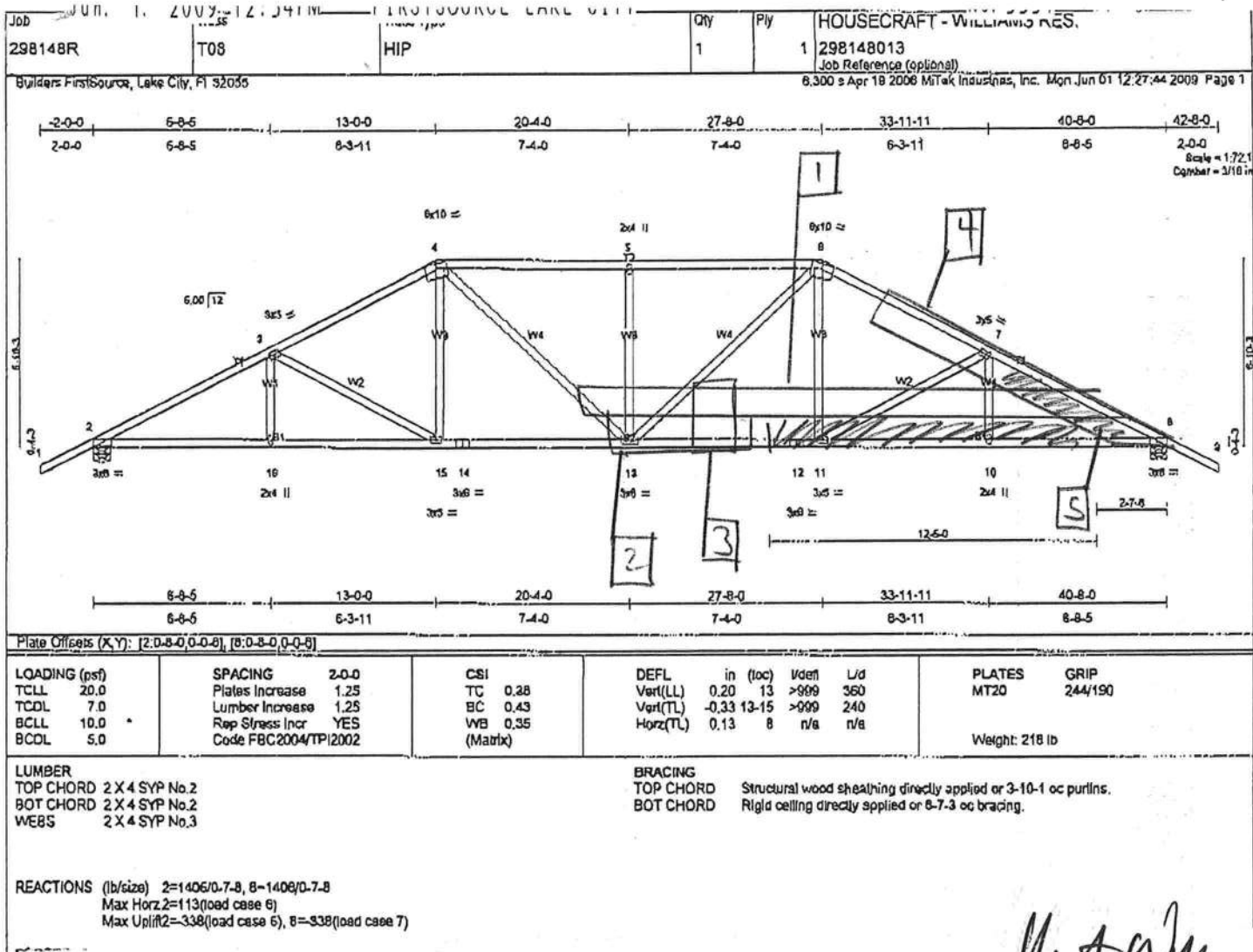
Robert W. Wall PE 46021

Modification needed: **TRIMMED A MAXIMUM OF 12" AS SHOWN ABOVE.**

Solution:

- 1 3/4" x 20"x25'-0" Microllam LVL 1.9e scab one face with 12-16d's at each member and 10-1/4" x 4 1/2" Simpson SDS screws at each member. If there is a splice in this scab use a 1 3/4" x 20"x56" Microllam LVL 1.9e splice plate with 60-16d's each side of the splice.
- 1 3/4" x 11 7/8" x 9'-0" Microllam LVL 1.9e scab one face with 16d's 6" o.c. at the bottom chord and 10-16d's at each web member and 1/4"x4 1/2" Simpson SDS Screws 9" o.c. at the bottom chord.
- (2) layers of 1/2" plywood or o.s.b one face of the scabs 38"x38" with (4) rows of 16d's 4" o.c. at each scab.
- 1 3/4" x 11 7/8" Microllam LVL 1.9e scab at the opposite face of scab number -1- with 16d's 4" o.c. at the top chord and 10-16d's at each web member.
- Between these two scabs use a 2x8x6'-0" No.2 SYP insert right beneath the truss top chord with 16d's 3" o.c. at scab number -4- and 20-16d's at scab number -1-.

All trusses must be in an un-deflected state. No loading or braced to no deflection. If conditions change from above notify truss manufacturer. Do not damage existing plates unless otherwise noted.



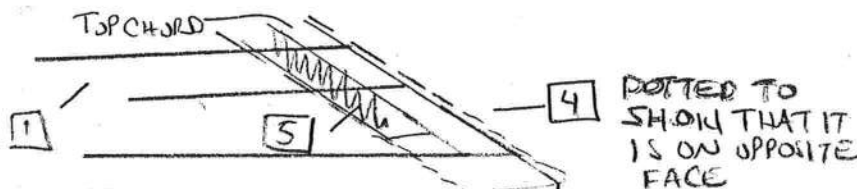
Architectural Services & Engineering, Inc
 CA 7882
 24710 SR 54 Lutz, FL 33559

Robert W. Wall PE 46021

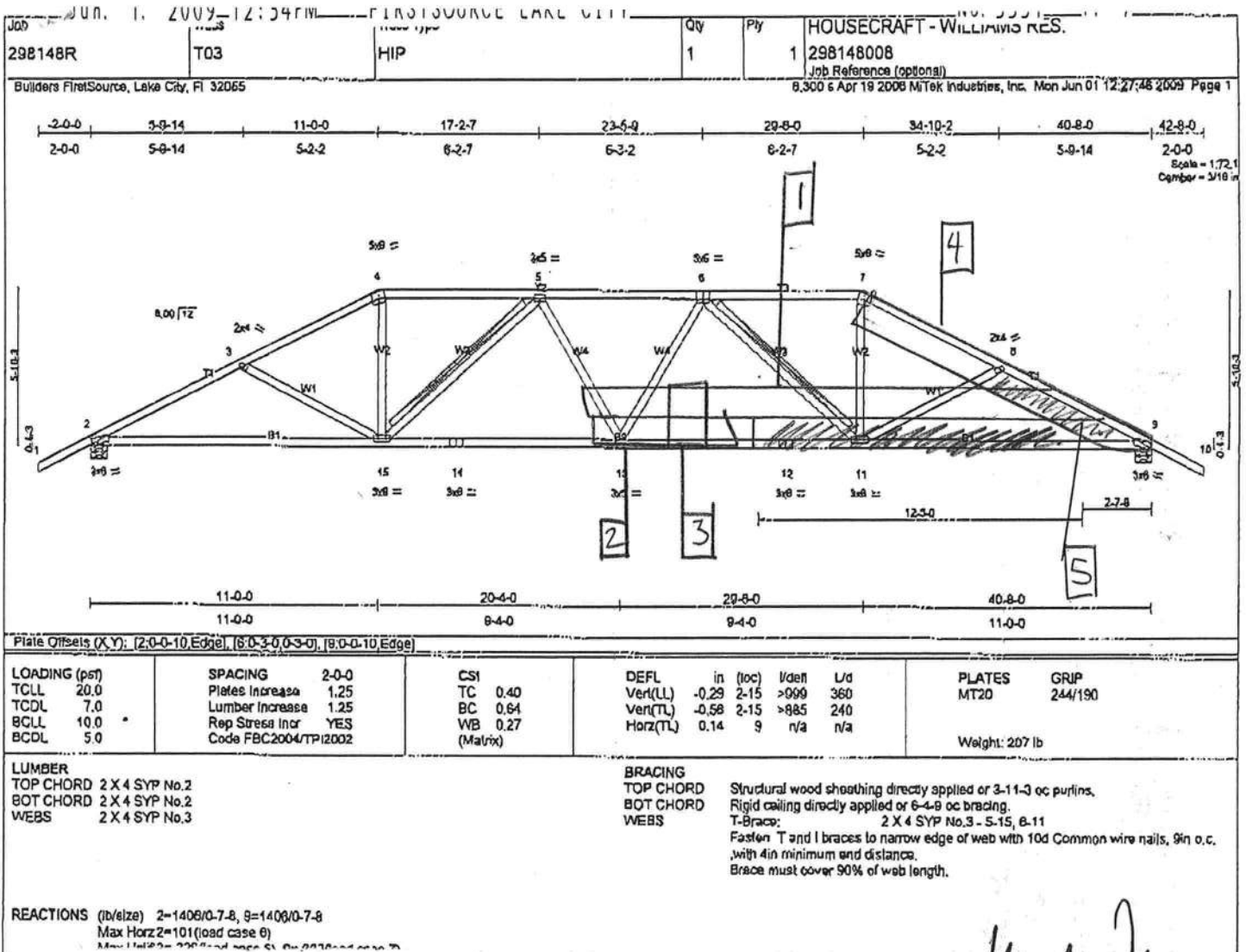
Modification needed: **TRIMMED A MAXIMUM OF 12" AS SHOWN ABOVE.**

Solution:

- 2x12x25'-0" No.2 SYP scab one face with 18-16d's at each member. If there is a splice in this scab use a 2x12x48" No.2 SYP splice plate with 35-10d's each side of the splice.
- 2x12x5'-0" No.2 SYP scab one face with 16d's 3" o.c. at the bottom chord and 10-16d's at each web member.
- (2) layers of 1/2" plywood or o.s.b one face of the scabs 24"x24" with (4) rows of 16d's 4" o.c. at each scab.
- 2x12 NO.2 SYP scab at the opposite face of scab number -1- with 16d's 4" o.c. at the top chord and 10-16d's at each web member.
- Between these two scabs use a 2x8x4'-0" No.2 SYP insert right beneath the truss top chord with 16d's 3" o.c. at scab number -4- and 12-16d's at scab number -1-.



All trusses must be in an un-deflected state. No loading or braced to no deflection. If conditions change from above notify truss manufacturer. Do not damage existing plates unless otherwise noted.



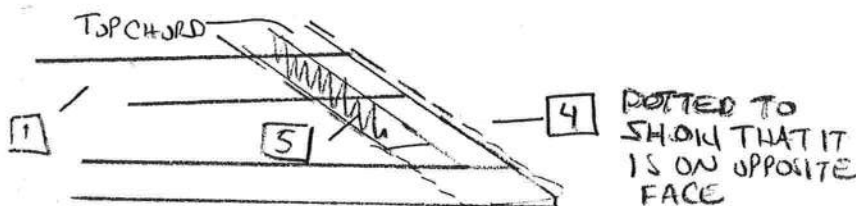
Architectural Services & Engineering, Inc
CA 7882
24710 SR 54 Lutz, FL 33559

Robert W. Wall PE 46021

Modification needed: **TRIMMED A MAXIMUM OF 12" AS SHOWN ABOVE.**

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2. 2x12x5'-0" No.2 SYP scab one face with 16d's 3" o.c. at the bottom chord and 10-16d's at each web member.
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4. 2x12 NO.2 SYP scab at the opposite face of scab number -1- with 16d's 4" o.c. at the top chord and 10-16d's at each web member.
5. Between these two scabs use a 2x8x4'-0" No.2 SYP insert right beneath the truss top chord with 16d's 3" o.c. at scab number -4- and 12-16d's at scab number -1-.



All trusses must be in an un-deflected state. No loading or braced to no deflection. If conditions change from above notify truss manufacturer. Do not damage existing plates unless otherwise noted.



RIGHT-J LOAD AND EQUIPMENT SUMMARY

Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

Project Information

For: House Craft Homes
12501 NW HWY. 441, Alachua, FL 32615
Phone: (386)462-5323 Fax: (386)462-1509

Notes: WILLIAMS

Design Information

Weather: Gainesville, FL, US

Winter Design Conditions

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

Summer Design Conditions

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

Heating Summary

Building heat loss	62358 Btuh
Ventilation air	0 cfm
Ventilation air loss	0 Btuh
Design heat load	62358 Btuh

Sensible Cooling Equipment Load Sizing

Structure	29818 Btuh
Ventilation	0 Btuh
Design temperature swing	3.0 °F
Use mfg. data	n
Rate/swing multiplier	0.97
Total sens. equip. load	28923 Btuh

Infiltration

Method	Simplified	
Construction quality	Average	
Fireplaces	0	
	Heating	Cooling
Area (ft²)	2107	2107
Volume (ft³)	26339	26339
Air changes/hour	0.70	0.40
Equiv. AVF (cfm)	308	176

Latent Cooling Equipment Load Sizing

Internal gains	920 Btuh
Ventilation	0 Btuh
Infiltration	6168 Btuh
Total latent equip. load	7088 Btuh
Total equipment load	36011 Btuh

Heating Equipment Summary

Make	
Trade	
Efficiency	9.2 HSPF
Heating input	
Heating output	0 Btuh @ 47°F
Heating temp rise	0 °F
Actual heating fan	1427 cfm
Heating air flow factor	0.023 cfm/Btuh
Space thermostat	

Cooling Equipment Summary

Make	
Trade	
Efficiency	13.0 EER
Sensible cooling	0 Btuh
Latent cooling	0 Btuh
Total cooling	0 Btuh
Actual cooling fan	1427 cfm
Cooling air flow factor	0.048 cfm/Btuh
Load sensible heat ratio	81 %

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



RIGHT-J CALCULATION PROCEDURES A, B, C, D Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

Procedure A - Winter Infiltration HTM Calculation*

1. Winter infiltration AVF

$$0.70 \text{ ach} \times 26339 \text{ ft}^3 \times 0.0167 = 308 \text{ cfm}$$
2. Winter infiltration load

$$1.1 \times 308 \text{ cfm} \times 37 \text{ }^\circ\text{F} \text{ Winter TD} = 12531 \text{ Btuh}$$
3. Winter infiltration HTM

$$\frac{12531 \text{ Btuh}}{200 \text{ ft}^2} \text{ Total window and door area} = 62.5 \text{ Btuh/ft}^2$$

Procedure B - Summer Infiltration HTM Calculation

1. Summer infiltration AVF

$$0.40 \text{ ach} \times 26339 \text{ ft}^3 \times 0.0167 = 176 \text{ cfm}$$
2. Summer infiltration load

$$1.1 \times 176 \text{ cfm} \times 17 \text{ }^\circ\text{F} \text{ Summer TD} = 3290 \text{ Btuh}$$
3. Summer infiltration HTM

$$\frac{3290 \text{ Btuh}}{200 \text{ ft}^2} \text{ Total window and door area} = 16.4 \text{ Btuh/ft}^2$$

Procedure C - Latent Infiltration Gain

$$0.68 \times 52 \text{ gr/lb moist.diff.} \times 176 \text{ cfm} = 6168 \text{ Btuh}$$

Procedure D - Equipment Sizing Loads

1. Sensible sizing load

Sensible ventilation load			
$1.1 \times 0 \text{ cfm vent.} \times 17 \text{ }^\circ\text{F} \text{ Summer TD}$	=	0	Btuh
Sensible load for structure (Line 19)	+	29818	Btuh
Sum of ventilation and structure loads	=	29818	Btuh
Rating and temperature swing multiplier	x	0.97	
Equipment sizing load - sensible	=	28923	Btuh
2. Latent sizing load

Latent ventilation load			
$0.68 \times 0 \text{ cfm vent.} \times 52 \text{ gr/lb moist.diff.}$	=	0	Btuh
Internal loads = 230 Btuh	+	920	Btuh
Infiltration load from Procedure C	+	6168	Btuh
Equipment sizing load - latent	=	7088	Btuh

*Construction Quality is: a

No. of Fireplaces is: 0

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RIGHT-J WINDOW DATA

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

W N D W	S K Y	D I R	W A L L	G L A Z	L O W E	S T R A D E	S H A D E	O V E R H E A D	N G L E	A N G L E	S H O O T I N G	O V E R H E A D	O V E R H E A D	W H I T E	C H I M N E Y	W A T E R	S H A D E
------------------	-------------	-------------	------------------	------------------	------------------	----------------------------	-----------------------	--------------------------------------	------------------	-----------------------	--------------------------------------	--------------------------------------	--------------------------------------	-----------------------	---------------------------------	-----------------------	-----------------------

Laundry

Dinning

a	n	s	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	31.4	12.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

WIC

WIC2

bath3

bath2

Study

a	n	s	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	31.4	12.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

Bed4

a	n	s	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	31.4	12.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

Bed3

a	n	e	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	63.4	12.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

Bed2

a	n	n	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	18.4	12.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

Ktchn/nook

a	n	n	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	18.4	24.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	------	-----

Greatroom

Mstr bath

a	n	w	a	c	y	0	n	0	2	90	1.0	0.0	0.0	3.0	63.4	9.0	0.0
---	---	---	---	---	---	---	---	---	---	----	-----	-----	-----	-----	------	-----	-----



Mstr bed

a	n	w	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	63.4	12.0	0.0
a	n	s	a	c	y	0	n	0	2	90	1.0	0.0	0.0	4.0	31.4	12.0	0.0



RIGHT-J WORKSHEET

Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

MANUAL J: 7th Ed.																	
1	Name of room				Entire House			Laundry			Dinning			WIC			
2	Length of exposed wall				189.0 ft			22.0 ft			14.0 ft			0.0 ft			
3	Room dimensions				13.0 x 9.0 ft			1.0 x 230.5 ft			4.0 x 5.0 ft						
4	Ceilings				12.5 ft			11.0 ft			14.0 ft			10.0 ft			
		Condit. Option															
TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg		
5	Gross Exposed walls and partitions	a	14A	18.9	6.8	2236	****	****	242	****	****	196	****	****	0	****	
		b		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	
		c		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	
		d		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	
		e		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	
		f		0.0	0.0	0	****	****	0	****	****	0	****	****	0	****	
6	Windows and glass doors Heating	a	3E	14.8	**	117	1727	****	0	0	****	12	177	****	0	0	
		b		0.0	**	0	0	****	0	0	****	0	0	****	0	0	
		c		0.0	**	0	0	****	0	0	****	0	0	****	0	0	
		d		0.0	**	0	0	****	0	0	****	0	0	****	0	0	
		e		0.0	**	0	0	****	0	0	****	0	0	****	0	0	
		f		0.0	**	0	0	****	0	0	****	0	0	****	0	0	
7	Windows and glass doors Cooling	North NE/NW E/W SE/SW South Horz		18.4	36	****	662	0	****	0	0	****	0	0	****	0	
				0.0	0	****	0	0	****	0	0	****	0	0	****	0	
				63.4	33	****	2092	0	****	0	0	****	0	0	****	0	
				0.0	0	****	0	0	****	0	0	****	0	0	****	0	
				31.4	48	****	1507	0	****	0	12	****	377	0	****	0	
				0.0	0	****	0	0	****	0	0	****	0	0	****	0	
8	Other doors	a	11C	17.4	9.7	83	1451	808	21	365	203	21	365	203	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
9	Net exposed walls and partitions	a	14A	18.9	6.8	2036	38411	13807	221	4170	1499	163	3076	1106	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
10	Ceilings	a	16G	1.2	1.4	2107	2573	2851	117	143	158	231	281	312	20	24	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
11	Floors (Note: room perimeter is displ. for slab floors)	a	22A	30.0	0.0	189	5664	0	22	659	0	14	420	0	0	0	
		b		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		c		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		d		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		e		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
		f		0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	
12	Infiltration	a		62.5	16.4	200	12531	3290	21	1313	345	33	2063	542	0	0	
13	Subtotal loss=6+8..+11+12					****	62358	****	****	6651	****	6383	****	****	24	****	
		Less external heating				****	0	****	****	0	****	****	0	****	0	****	
		Less transfer				****	0	****	****	0	****	****	0	****	0	****	
14	Duct loss					0%	0	****	0%	0	****	0%	0	****	0	****	
15	Total loss = 13+14					****	62358	****	****	6651	****	6383	****	****	24	****	
16	Int. gains: People @			300	4	****	1200	0	****	0	0	****	0	0	****	0	
	Appl. @			1200	3	****	3600	1	****	1200	0	****	0	0	****	0	
17	Subtot RSH gain=7+8..+12+16					****	****	29818	****	****	3405	****	****	2539	****	****	27
	Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0
	Less transfer					****	****	0	****	****	0	****	****	0	****	****	0
18	Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0
19	Total RSH gain=(17+18)*PLF					1.00	****	29818	1.00	****	3405	1.00	****	2539	1.00	****	27
20	Air required (cfm)					****	1427	1427	****	152	163	****	146	122	****	1	1

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RIGHT-J WORKSHEET

Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

MANUAL J: 7th Ed.																		
1	Name of room					WIC2			bath3			bath2			Study			
2	Length of exposed wall					5.0 ft			5.0 ft			6.0 ft			11.0 ft			
3	Room dimensions					4.0 x 5.0 ft			5.0 x 7.0 ft			8.0 x 6.0 ft			11.0 x 12.0 ft			
4	Ceilings					10.0 ft heat/cool			10.0 ft heat/cool			11.0 ft heat/cool			12.0 ft heat/cool			
TYPE OF EXPOSURE		CST NO.	HTg	HTM Clg	Area (ft²)	Load (Btuh) HTg	Clg	Area (ft²)	Load (Btuh) HTg	Clg	Area (ft²)	Load (Btuh) HTg	Clg	Area (ft²)	Load (Btuh) HTg	Clg		
5	Gross Exposed walls and partitions	a b c d e f	14A	18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	50 0 0 0 0 0	**** **** **** **** **** ****	**** **** **** **** **** ****	50 0 0 0 0 0	**** **** **** **** **** ****	**** **** **** **** **** ****	66 0 0 0 0 0	**** **** **** **** **** ****	**** **** **** **** **** ****	132 0 0 0 0 0	**** **** **** **** **** ****	**** **** **** **** **** ****	
6	Windows and glass doors Heating	a b c d e f	3E	14.8 0.0 0.0 0.0 0.0 0.0	** ** ** ** ** **	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	12 0 0 0 0 0	177 0 0 0 0 0	**** **** **** **** **** ****	
7	Windows and glass doors Cooling	North NE/NW E/W SE/SW South Horz			18.4 0.0 63.4 0.0 31.4 0.0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	0 0 0 0 0 0	**** **** **** **** **** ****	0 0 0 0 0 0	
8	Other doors	a b c	11C	17.4 0.0 0.0	9.7 0.0 0.0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
9	Net exposed walls and partitions	a b c d e f	14A	18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	50 0 0 0 0 0	943 0 0 0 0 0	339 0 0 0 0 0	50 0 0 0 0 0	943 0 0 0 0 0	339 0 0 0 0 0	66 0 0 0 0 0	1245 0 0 0 0 0	448 0 0 0 0 0	120 0 0 0 0 0	2264 0 0 0 0 0	814 0 0 0 0 0	
10	Ceilings	a b c d e f	16G	1.2 0.0 0.0 0.0 0.0 0.0	1.4 0.0 0.0 0.0 0.0 0.0	20 0 0 0 0 0	24 0 0 0 0 0	27 0 0 0 0 0	35 0 0 0 0 0	43 0 0 0 0 0	47 0 0 0 0 0	48 0 0 0 0 0	59 0 0 0 0 0	65 0 0 0 0 0	132 0 0 0 0 0	161 0 0 0 0 0	179 0 0 0 0 0	
11	Floors (Note: room perimeter is displ. for slab floors)	a b c d e f	22A	30.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	5 0 0 0 0 0	150 0 0 0 0 0	0 0 0 0 0 0	5 0 0 0 0 0	150 0 0 0 0 0	0 0 0 0 0 0	6 0 0 0 0 0	180 0 0 0 0 0	0 0 0 0 0 0	11 0 0 0 0 0	330 0 0 0 0 0	0 0 0 0 0 0	
12	Infiltration	a		62.5	16.4	0	0	0	0	0	0	0	0	0	12	750	197	
13	Subtotal loss=6+8..+11+12					****	1118	****	****	1136	****	****	1484	****	****	3683	****	
	Less external heating					****	0	****	****	0	****	****	0	****	****	0	****	
	Less transfer					****	0	****	****	0	****	****	0	****	****	0	****	
14	Duct loss					0%	0	****	0%	0	****	0%	0	****	0%	0	****	
15	Total loss = 13+14					****	1118	****	****	1136	****	****	1484	****	****	3683	****	
16	Int. gains: People @	300			0	****	0	****	0	****	0	****	0	****	0	****	0	
	Appl. @	1200			0	****	0	****	0	****	0	****	0	****	0	****	0	
17	Subtot RSH gain=7+8..+12+16					****	****	366	****	****	387	****	****	513	****	****	1566	
	Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0	
	Less transfer					****	****	0	****	****	0	****	****	0	****	****	0	
18	Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0	
19	Total RSH gain=(17+18)*PLF					1.00	****	366	1.00	****	387	1.00	****	513	1.00	****	1566	
20	Air required (cfm)					****	26	****	****	26	****	****	34	****	25	****	75	

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RIGHT-J WORKSHEET

Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

MANUAL J: 7th Ed.																	
1	Name of room				Bed4			Bed3			Bed2			Ktchn/nook			
2	Length of exposed wall				23.0 ft			10.0 ft			25.0 ft			13.0 ft			
3	Room dimensions				13.0 x 10.0 ft			1.0 x 143.5 ft			1.0 x 144.0 ft			13.0 x 22.0 ft			
4	Ceilings		Condit. Option		11.0 ft heat/cool			11.0 ft heat/cool			11.0 ft heat/cool			14.0 ft heat/cool			
	TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg
5	Gross Exposed walls and partitions	a b c d e f	14A	18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	253 0 0 0 0 0	**** 0 0 0 0 0	**** 0 0 0 0 0	110 0 0 0 0 0	**** 0 0 0 0 0	**** 0 0 0 0 0	275 0 0 0 0 0	**** 0 0 0 0 0	**** 0 0 0 0 0	182 0 0 0 0 0	**** 0 0 0 0 0	**** 0 0 0 0 0
6	Windows and glass doors Heating	a b c d e f	3E	14.8 0.0 0.0 0.0 0.0 0.0	** 0.0 0.0 0.0 0.0 0.0	12 0 0 0 0 0	177 0 0 0 0 0	**** 0 0 0 0 0	12 0 0 0 0 0	177 0 0 0 0 0	**** 0 0 0 0 0	12 0 0 0 0 0	177 0 0 0 0 0	**** 0 0 0 0 0	24 0 0 0 0 0	354 0 0 0 0 0	**** 0 0 0 0 0
7	Windows and glass doors Cooling		North NE/NW E/W SE/SW South Horiz	18.4 0.0 63.4 0.0 31.4 0.0	0 0 0 0 12 0	**** 0 0 0 0 0	0 0 0 0 377 0	0 0 0 0 0 0	0 0 12 0 0 0	**** 0 0 0 0 0 0	0 0 761 0 0 0	12 0 0 0 0 0	**** 0 0 0 0 0 0	221 0 0 0 0 0 0	24 0 0 0 0 0 0	**** 0 0 0 0 0 0	442 0 0 0 0 0 0
8	Other doors	a b c	11C	17.4 0.0 0.0	9.7 0.0 0.0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
9	Net exposed walls and partitions	a b c d e f	14A	18.9 0.0 0.0 0.0 0.0 0.0	6.8 0.0 0.0 0.0 0.0 0.0	241 0 0 0 0 0	4548 0 0 0 0 0	1635 0 0 0 0 0	98 0 0 0 0 0	1849 0 0 0 0 0	665 0 0 0 0 0	263 0 0 0 0 0	4963 0 0 0 0 0	1784 0 0 0 0 0	158 0 0 0 0 0	2981 0 0 0 0 0	1072 0 0 0 0 0
10	Ceilings	a b c d e f	16G	1.2 0.0 0.0 0.0 0.0 0.0	1.4 0.0 0.0 0.0 0.0 0.0	130 0 0 0 0 0	159 0 0 0 0 0	176 0 0 0 0 0	144 0 0 0 0 0	175 0 0 0 0 0	194 0 0 0 0 0	144 0 0 0 0 0	176 0 0 0 0 0	195 0 0 0 0 0	286 0 0 0 0 0	349 0 0 0 0 0	387 0 0 0 0 0
11	Floors (Note: room perimeter is displ. for slab floors)	a b c d e f	22A	30.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	23 0 0 0 0 0	689 0 0 0 0 0	0 0 0 0 0	10 0 0 0 0	300 0 0 0 0	0 0 0 0 0	25 0 0 0 0	749 0 0 0 0	0 0 0 0	13 0 0 0	390 0 0 0	0 0 0 0
12	Infiltration	a		62.5	16.4	12	750	197	12	750	197	12	750	197	24	1501	394
13	Subtotal loss=6+8..+11+12					****	6323	****	****	3252	****	****	6815	****	****	5575	****
	Less external heating					****	0	****	****	0	****	****	0	****	****	0	****
	Less transfer					****	0	****	****	0	****	****	0	****	****	0	****
14	Duct loss					0%	0	****	0%	0	****	0%	0	****	0%	0	****
15	Total loss = 13+14					****	6323	****	****	3252	****	****	6815	****	****	5575	****
16	Int. gains: People @		300		0	****	0	0	****	0	0	****	0	0	2	****	600
	Appl. @		1200		0	****	0	0	****	0	0	****	0	0	2	****	2400
17	Subtot RSH gain=7+8..+12+16					****	****	2384	****	****	1817	****	****	2397	****	****	5294
	Less external cooling					****	****	0	****	****	0	****	****	0	****	****	0
	Less transfer					****	****	0	****	****	0	****	****	0	****	****	0
18	Duct gain					0%	****	0	0%	****	0	0%	****	0	0%	****	0
19	Total RSH gain=(17+18)*PLF					1.00	****	2384	1.00	****	1817	1.00	****	2397	1.00	****	5294
20	Air required (cfm)					****	145	114	****	74	87	****	156	115	****	128	253

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RIGHT-J WORKSHEET

Entire House

Allstar Air Inc./Scott Ray

Job: WILLIAMS 04/08/09

227 SE Bald Eagle Loop, Lake City, FL 32025 Phone: (352)745-0473

MANUAL J: 7th Ed.																	
1	Name of room				Greatroom				Mstr bath				Mstr bed				
2	Length of exposed wall				10.0 ft				13.0 ft				32.0 ft				
3	Room dimensions				1.0 x 377.0 ft				13.0 x 13.0 ft				15.0 x 17.0 ft				
4	Ceilings				14.0 ft heat/cool				12.0 ft heat/cool				12.0 ft heat/cool				
TYPE OF EXPOSURE		CST NO.	HTM Htg	HTM Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area (ft²)	Load (Btuh) Htg	Load (Btuh) Clg	Area	Htg	Clg	
5	Gross Exposed walls and partitions	a 14A	18.9	6.8	140	****	****	156	****	****	384	****	****		****	****	
		b	0.0	0.0	0	****	****	0	****	****	0	****	****		****	****	
		c	0.0	0.0	0	****	****	0	****	****	0	****	****		****	****	
		d	0.0	0.0	0	****	****	0	****	****	0	****	****		****	****	
		e	0.0	0.0	0	****	****	0	****	****	0	****	****		****	****	
		f	0.0	0.0	0	****	****	0	****	****	0	****	****		****	****	
6	Windows and glass doors Heating	a 3E	14.8	**	0	0	****	9	133	****	24	354	****			****	
		b	0.0	**	0	0	****	0	0	****	0	0	****			****	
		c	0.0	**	0	0	****	0	0	****	0	0	****			****	
		d	0.0	**	0	0	****	0	0	****	0	0	****			****	
		e	0.0	**	0	0	****	0	0	****	0	0	****			****	
		f	0.0	**	0	0	****	0	0	****	0	0	****			****	
7	Windows and glass doors Cooling	North NE/NW E/W SE/SW South Horz		18.4 0.0 63.4 0.0 31.4 0.0	0 0 0 0 0 0	**** 0 0 0 0 0	0 0 0 0 0 0	0 0 9 0 0 0	**** 0 0 0 0 0 0	0 0 571 0 0 0	0 0 12 0 12 0	**** 0 0 0 0 0 0	0 0 761 0 377 0		**** 0 0 0 0 0 0		
8	Other doors	a 11C	17.4	9.7	41	720	401	0	0	0	0	0	0				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0				
9	Net exposed walls and partitions	a 14A	18.9	6.8	99	1860	669	147	2774	997	360	6793	2442				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0				
10	Ceilings	a 16G	1.2	1.4	377	460	510	169	206	229	255	311	345				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0				
11	Floors (Note: room perimeter is displ. for slab floors)	a 22A	30.0	0.0	10	300	0	13	390	0	32	959	0				
		b	0.0	0.0	0	0	0	0	0	0	0	0	0				
		c	0.0	0.0	0	0	0	0	0	0	0	0	0				
		d	0.0	0.0	0	0	0	0	0	0	0	0	0				
		e	0.0	0.0	0	0	0	0	0	0	0	0	0				
		f	0.0	0.0	0	0	0	0	0	0	0	0	0				
12	Infiltration	a	62.5	16.4	41	2590	680	9	563	148	24	1501	394				
13	Subtotal loss=6+8..+11+12				****	5930	****	****	4065	****	****	9919	****	****	****	****	****
	Less external heating				****	0	****	****	0	****	****	0	****	****	****	****	****
	Less transfer				****	0	****	****	0	****	****	0	****	****	****	****	****
14	Duct loss				0%	0	****	0%	0	****	0%	0	****	0	****	0%	****
15	Total loss = 13+14				****	5930	****	****	4065	****	****	9919	****	****	****	****	****
16	Int. gains: People @	300	2	****	600	0	****	0	****	0	****	0	****	0	****	****	****
	Appl. @	1200	0	****	0	0	****	0	****	0	****	0	****	0	****	****	****
17	Subtot RSH gain=7+8..+12+16				****	2860	****	****	1944	****	****	4318	****	****	****	****	****
	Less external cooling				****	0	****	****	0	****	****	0	****	****	****	****	****
	Less transfer				****	0	****	****	0	****	****	0	****	****	****	****	****
18	Duct gain				0%	0	****	0%	0	****	0%	0	****	0	****	0%	****
19	Total RSH gain=(17+18)*PLF				1.00	2860	1.00	****	1944	1.00	****	4318	****	****	****	****	****
20	Air required (cfm)				****	136	****	****	93	****	****	227	****	****	****	****	****

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

The lower the EnergyPerformance Index, the more efficient the home.

1. New construction or existing	New (From Plans)		9. Wall Types	Insulation	Area
2. Single family or multiple family	Single-family		a. Concrete Block - Int Insul, Exterior	R=8.0	1530.70 ft ²
3. Number of units, if multiple family	1		b. N/A	R=	ft ²
4. Number of Bedrooms	5		c. N/A	R=	ft ²
5. Is this a worst case?	Yes		d. N/A	R=	ft ²
6. Conditioned floor area (ft ²)	2236		10. Ceiling Types	Insulation	Area
7. Windows**	Description	Area	a. Under Attic (Vented)	R=30.0	2236.00 ft ²
a. U-Factor:	Dbl, U=0.55	174.22 ft ²	b. Knee Wall (Vented)	R=30.0	221.00 ft ²
SHGC:	SHGC=0.70		c. N/A	R=	ft ²
b. U-Factor:	Dbl, U=0.55	8.06 ft ²	11. Ducts		
SHGC:	SHGC=0.60		a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 447.2 ft ²		
c. U-Factor:	N/A	ft ²	12. Cooling systems		
SHGC:			a. Central Unit	Cap: 48 kBtu/hr	
d. U-Factor:	N/A	ft ²		SEER: 13	
SHGC:			13. Heating systems		
e. U-Factor:	N/A	ft ²	a. Electric Heat Pump	Cap: 48 kBtu/hr	
SHGC:				HSPF: 8.3	
8. Floor Types	Insulation	Area	14. Hot water systems		
a. Slab-On-Grade Edge Insulation	R=0.0	2236.00 ft ²	a. Electric	Cap: 60 gallons	
b. N/A	R=	ft ²		EF: 0.9	
c. N/A	R=	ft ²	b. Conservation features		
			None		
			15. Credits	Pstat	

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: [Signature] Date: 4-9-08
Address of New Home: 1326 SW Legion Dr City/FL Zip: Lake City



Department of Community Affairs at (850) 487-1824.

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 84

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4. Number of Bedrooms	5		c. N/A	R=	ft ²
5. Is this a worst case?	Yes		d. N/A	R=	ft ²
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SHGC:	SHGC=0.70		c. N/A	R=	ft ²
b. U-Factor:	Dbl, U=0.55	8.06 ft ²	11. Ducts		
SHGC:	SHGC=0.60		a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6, 447.2 ft ²		
c. U-Factor:	N/A	ft ²	12. Cooling systems		
SHGC:			a. Central Unit	Cap: 48 kBtu/hr	SEER: 13
d. U-Factor:	N/A	ft ²	13. Heating systems		
SHGC:			a. Electric Heat Pump	Cap: 48 kBtu/hr	HSPF: 8.3
e. U-Factor:	N/A	ft ²	14. Hot water systems		
SHGC:			a. Electric	Cap: 60 gallons	EF: 0.9
8. Floor Types	Insulation	Area	b. Conservation features		
a. Slab-On-Grade Edge Insulation	R=0.0	2236.00 ft ²	None		
b. N/A	R=	ft ²	15. Credits		Pstat
c. N/A	R=	ft ²			

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: JD Harty Date: 4-9-09
Address of New Home: 1326 SW Legu Dr City/FL Zip: Loke City



*Note: The home's estimated Energy Performance Index is only available through the EnergyGauge USA - FlaRes2008 computer program. This is not a Building Energy Rating. If your Index is below 100, your home may qualify for 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 energygauge.com for information and a list of certified Raters. For information about Florida's Energy Efficiency Code for Building Construction, contact the

**Label required by Section 13-104.4.5 of the Florida Building Code, Building, or Section B2.1.1 of Appendix G of the Florida Building Code, Residential, if not DEFAULT.

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 1326 SW Legion De
Lake City, FL, 32024-

PERMIT #:

INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	N1106.AB.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	✓
Exterior & Adjacent Walls	N1106.AB.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	N1106.AB.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	N1106.AB.1.2.3	Between walls & ceilings; penetrations of ceiling plane to 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	N1106.AB.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 with < 2.0 cfm from conditioned space, tested.	✓
Multi-story Houses	N1106.AB.1.2.5	Air barrier on perimeter of floor cavity between floors.	NA
Additional Infiltration reqts	N1106.AB.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	✓

OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	N1112.AB.3	Comply with efficiency requirements in Table N112.ABC.3. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	N1112.AB.2.3	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%. Heat pump pool heaters shall have a minimum COP of 4.0.	✓
Shower heads	N1112.AB.2.4	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	N1110.AB	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section N1110.AB. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	N1107.AB.2	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	N1104.AB.1 N1102.B.1.1	Ceilings-Min. R-19. Common walls-frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

DOORS

✓	#	Omt	Door Type	Storms	U-Value	Area
✓	1	N	Insulated	None	0.4	21.67 ft²
✓	2	E	Insulated	None	0.46	34.67 ft²
✓	3	W	Insulated	None	0.46	21.67 ft²

WINDOWS

Window orientation below is as entered. Actual orientation is modified by rotate angle shown in "Project" section above.

✓	#	Omt	Frame	Panes	NFRC	U-Factor	SHGC	Storms	Area	Overhang Depth Separation	Int Shade	Screening
✓	1	N	Vinyl	Low-E Double	Yes	0.55	0.6	N	8.06 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None
✓	2	N	Vinyl	Low-E Double	Yes	0.55	0.7	N	17.78 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None
✓	3	S	Vinyl	Low-E Double	Yes	0.55	0.7	N	17.78 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None
✓	4	E	Vinyl	Low-E Double	Yes	0.55	0.7	N	53.33 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None
✓	5	W	Vinyl	Low-E Double	Yes	0.55	0.7	N	35.56 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None
✓	6	W	Vinyl	Low-E Double	Yes	0.55	0.7	N	49.78 ft²	2 ft 0 in 0 ft 4 in	HERS 2006	None

INFILTRATION & VENTING

✓	Method	SLA	CFM 50	ACH 50	ELA	EqLA	— Forced Ventilation — Supply CFM Exhaust CFM	Run Time Fraction	Fan Watts
✓	Default	0.00036	2111	7.08	115.9	218.0	0 cfm 0 cfm	0	0

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Ductless
✓	1	Central Unit	None	SEER: 13	48 kBtu/hr	1440 cfm	0.75	False

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Ductless
✓	1	Electric Heat Pump	None	HSPF: 8.3	48 kBtu/hr	False

HOT WATER SYSTEM

✓	#	System Type	EF	Cap	Use	SetPnt	Conservation
✓	1	Electric	0.9	60 gal	80 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
✓	None	None			ft²		

PROJECT

Title: Williams Residence	Bedrooms: 5	Address Type: Street Address
Building Type: FLAsBuilt	Bathrooms: 0	Lot #
Owner: Robert & Diana Williams	Conditioned Area: 2236	SubDivision:
# of Units: 1	Total Stories: 1	PlatBook:
Builder Name: House Craft Homes, LLC	Worst Case: Yes	Street: 1326 SW Legion De
Permit Office:	Rotate Angle: 315	County: Columbia
Jurisdiction:	Cross Ventilation:	City, State, Zip: Lake City ,
Family Type: Single-family	Whole House Fan:	FL, 32024-
New/Existing: New (From Plans)		
Comment:		

CLIMATE

✓	Design Location	TMY Site	IECC Zone	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	2	32	92	75	70	1305.5	51	Medium

FLOORS

✓	#	Floor Type	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulation	191 ft	0	2236 ft²	0.3	0.2	0.5

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Solar Absor.	Tested	Deck Insul.	Pitch
_____	1	Hip	Composition shingles	2501 ft²	0 ft²	Medium	0.96	No	0	26.6 deg

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Partial cathedral celli	Vented	300	2236 ft²	N	N

CEILING

✓	#	Ceiling Type	R-Value	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	30	2236 ft²	0.11	Wood
_____	2	Knee Wall (Vented)	30	221 ft²	0.11	Wood

WALLS

✓	#	Ornt	Adjacent To	Wall Type	Cavity R-Value	Area	Sheathing R-Value	Framing Fraction	Solar Absor.
_____	1	N	Exterior	Concrete Block - Int Insul	8	325.33 ft²	1	0	0.75
_____	2	S	Exterior	Concrete Block - Int Insul	8	325.33 ft²	1	0	0.75
_____	3	E	Exterior	Concrete Block - Int Insul	8	440 ft²	1	0	0.75
_____	4	W	Exterior	Concrete Block - Int Insul	8	440 ft²	1	0	0.75

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**Florida Department of Community Affairs Residential Performance Method A**

Project Name: Williams Residence
 Street: 1326 SW Legion De
 City, State, Zip: Lake City, FL, 32024-
 Owner: Robert & Diana Williams
 Design Location: FL, Gainesville

Builder Name: House Craft Homes, LLC
 Permit Office:
 Permit Number:
 Jurisdiction:

1. New construction or existing	New (From Plans)	
2. Single family or multiple family	Single-family	
3. Number of units, if multiple family	1	
4. Number of Bedrooms	5	
5. Is this a worst case?	Yes	
6. Conditioned floor area (ft ²)	2236	
7. Windows	Description	Area
a. U-Factor:	DbI, U=0.55	174.22 ft ²
SHGC:	SHGC=0.70	
b. U-Factor:	DbI, U=0.55	8.06 ft ²
SHGC:	SHGC=0.60	
c. U-Factor:	N/A	ft ²
SHGC:		
d. U-Factor:	N/A	ft ²
SHGC:		
e. U-Factor:	N/A	ft ²
SHGC:		
8. Floor Types	Insulation	Area
a. Slab-On-Grade Edge Insulation	R=0.0	2236.00 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²

9. Wall Types	Insulation	Area
a. Concrete Block - Int Insul, Exterior	R=8.0	1530.70 ft ²
b. N/A	R=	ft ²
c. N/A	R=	ft ²
d. N/A	R=	ft ²
10. Ceiling Types	Insulation	Area
a. Under Attic (Vented)	R=30.0	2236.00 ft ²
b. Knee Wall (Vented)	R=30.0	221.00 ft ²
c. N/A	R=	ft ²
11. Ducts		
a. Sup: Attic Ret: Attic AH: Interior Sup. R= 6,	447.2 ft ²	
12. Cooling systems		
a. Central Unit	Cap: 48 kBtu/hr SEER: 13	
13. Heating systems		
a. Electric Heat Pump	Cap: 48 kBtu/hr HSPF: 8.3	
14. Hot water systems		
a. Electric	Cap: 60 gallons EF: 0.9	
b. Conservation features	None	
15. Credits	Pstat	

Glass/Floor Area: 0.082

Total As-Built Modified Loads: 39.91

Total Baseline Loads: 47.63

PASS

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

PREPARED BY: JD HoughtonDATE: 4-9-09

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

OWNER/AGENT: JD HoughtonDATE: 4-9-09

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: _____

Permit # _____
 User ID _____

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online @ www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)	X
1. EXTERIOR DOORS				
A. SWINGING	Masonite	Entry Door	FL 19.1	
B. SLIDING	HR Danvid	Glass Door	FI6398.1, 6398.2	
C. SECTIONAL/ROLL UP	Overhead Door	Garage door	FL 674	
D. OTHER				
2. WINDOWS				
A. SINGLE/DOUBLE HUNG	Silver Line	Single hung window	FL 6163.1	
B. HORIZONTAL SLIDER				
C. CASEMENT				
D. FIXED	Silver Line		FL 6163.1	
E. MULLION	Silver Line	Mull Bar	FL 6087.4	
F. SKYLIGHTS				
G. OTHER / GLASS BLOCK	Hy-Lite	Glass Block window	FL 1956.3	
3. PANEL WALL				
A. SIDING				
B. SOFFITS	Kaycan	Aluminum soffits	FL 1146.5	
C. STOREFRONTS				
D. GLASS BLOCK				
F. OTHER				
4. ROOFING PRODUCTS				
A. ASPHALT SHINGLES	Tamko	Heritage 38-R	FL 1956.3	
B. NON-STRUCT METAL				
C. ROOFING TILES				
D. SINGLE PLY ROOF				
E. OTHER				
5. STRUCT COMPONENTS				
A. WOOD CONNECTORS				
B. WOOD ANCHORS	Simpson	Truss anchors	1901.17 1901.45 1901.26 1901.21	
C. TRUSS PLATES				
D. INSULATION FORMS				
E. LINTELS	Cement Precast	Concrete lintels	FI 3048	
F. TRUSSES	Thomas E. Miller	engineer	PE 56877	
6. NEW EXTERIOR ENVELOPE PRODUCTS				
A.				

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite: 1) copy of the product approval, 2) performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.


 APPLICANT SIGNATURE

 4-9-07
 DATE

GENERAL CONTRACTORS
OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

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

Parcel Number 17-4S-16-03051-208

Building permit No. 000027757

Use Classification SFD, UTILITY

Fire: 6.42

Permit Holder HOUSE CRAFT HOMES

Waste: 16.75

Owner of Building ROBERT & DIANA WILLIAMS

Total: 23.17

Location: 1326 SW LEGION DRIVE, LAKE CITY, FL

Date: 09/09/2009

Wayne H. Rust

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

