

DATE 10/02/2008

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000027390

APPLICANT DANIEL ZWICKEL PHONE 386.344.3279
ADDRESS 4914 US HWY 441-N LAKE CITY FL 32055
OWNER DANIEL ZWICKEL PHONE 386.344.3279
ADDRESS 760 SW MEADOWLANDS DRIVE LAKE CITY FL 32024
CONTRACTOR MICHAEL MEDDERS PHONE 904.705.9278
LOCATION OF PROPERTY 41-S TO C-131.TR TO MEADOWLANDS,TR AND IT'S THE 9TH
LOT ON L.
TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 109700.00
HEATED FLOOR AREA 1531.00 TOTAL AREA 2194.00 HEIGHT 18.00 STORIES 1
FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC
LAND USE & ZONING A-3 MAX. HEIGHT 35
Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X DEVELOPMENT PERMIT NO.

PARCEL ID 06-6S-17-09617-104 SUBDIVISION MEADOWLANDS
LOT 9 BLOCK PHASE 1 UNIT TOTAL ACRES 5.31

CGC060658

Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor
EXISTING 08-0602-N BLK WR Y
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash 1739

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 \$ 550.00 CERTIFICATION FEE \$ 10.97 SURCHARGE FEE \$ 10.97
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 \$ TOTAL FEE 646.94
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 TO BE IN ACTIVE PROGRESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

Columbia County Building Permit Application

For Office Use Only Application # 0809-53 Date Received 9/25/08 By G Permit # 27390
 Zoning Official BK Date 01.10.08 Flood Zone X Land Use A-3 Zoning A3
 FEMA Map # N/A Elevation N/A MFE 1st above Rd River N/A Plans Examiner WR Date 9/29/08
 Comments _____
☒ NOC ☒ EH ☒ Deed or PA ☒ Site Plan ☐ State Road Info ☐ Parent Parcel # _____
☐ Dev Permit # _____ ☐ In Floodway ☒ Letter of Auth. from Contractor ☐ F W Comp. letter _____
 IMPACT FEES: EMS \$29.88 Fire \$78.63 Corr \$409.16 Road/Code \$1,046.00 / 210
 School \$1,500.00 = TOTAL \$3,063.67 - 1738 + 1739

Septic Permit No. 08-0602 Fax _____
 Name Authorized Person Signing Permit DANIEL ZWICKEL Phone 344-3279
 Address 1004 EASTPORT RD JAX FL 32228 - 4918 US Hwy 441-N. L.C 71.
 Owners Name Daniel Zwickel Phone 386-344-3279
 911 Address 760 SW Meadowlands Dr, Lake City, FL 32024
 Contractors Name AMELIA JEWEL INC. - MICHAEL MEDDIS Phone 904-705-9728
 Address 1004 EASTPORT RD JACKSONVILLE FL 32218

Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Michael Madden 1004 Eastport Rd Jax FL 32228
 Mortgage Lenders Name & Address BBIT

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

Property ID Number 06-65-17-0964-109 Estimated Cost of Construction 70K
 Subdivision Name MEADOWLAND Lot 9 Block _____ Unit 1 Phase _____
 Driving Directions South on 131 (R) right on meadowlands dr left at 760 9th on left

Number of Existing Dwellings on Property 1
 Construction of Single Family Dwelling Total Acreage 5.31 Lot Size _____
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 18
 Actual Distance of Structure from Property Lines - Front 138 Side 118 Side 358 Rear 310
 Number of Stories 1 Heated Floor Area 1530 Total Floor Area 2194 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.

- JW called & spoke w/ DANIEL -

Columbia County Building Permit Application

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.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment

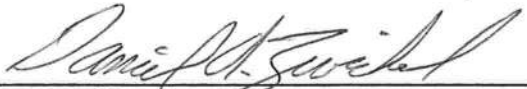
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects 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

2240-161-74-100-0

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.



Contractor's Signature (Permitee)

M362-545-51-469-0

Contractor's License Number CGC-060658
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 25 day of September 2008
Personally known _____ or Produced Identification DL



State of Florida Notary Signature (For the Contractor)

SEAL:



NOTICE OF COMMENCEMENT

County Clerk's Office Stamp or Seal

Tax Parcel Identification Number 06-65-17-09617-109

THE UNDERSIGNED hereby gives notice that improvements will be made to certain real property, and in accordance with Section 713.13 of the Florida Statutes, the following information is provided in this NOTICE OF COMMENCEMENT.

1. Description of property (legal description): Lot 9 Meadowlands S/D Phase 1
a) Street (job) Address: 7605W Meadowlands Dr Lake City, FL 32024
2. General description of improvements: NEW HOME
3. Owner Information
a) Name and address: Daniel Zwickel 4914 US Hwy 441 N Lake City, FL 3205
b) Name and address of fee simple titleholder (if other than owner) _____
c) Interest in property _____
4. Contractor Information
a) Name and address: AMELIA LEWIS INC 1004 E 1ST AVE RD SMC FL 32024
b) Telephone No.: _____ Fax No. (Opt.) _____
5. Surety Information
a) Name and address: _____
b) Amount of Bond: _____
c) Telephone No.: _____ Fax No. (Opt.) _____
6. Lender
a) Name and address: BB&T
b) Phone No. _____
7. Identity of person within the State of Florida designated by owner upon whom notices or other documents may be served:
a) Name and address: _____
b) Telephone No.: _____ Fax No. (Opt.) _____
8. In addition to himself, owner designates the following person to receive a copy of the Lienor's Notice as provided in Section 713.13(l)(b).
Florida Statutes:
a) Name and address: _____
b) Telephone No.: _____ Fax No. (Opt.) _____
9. Expiration date of Notice of Commencement (the expiration date is one 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 YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

STATE OF FLORIDA
COUNTY OF COLUMBIA

2240-161-74-100-0

10. Daniel A. Zwickel
Signature of Owner or Owner's Authorized Office/Director/Partner/Manager
Daniel A. Zwickel
Print Name

The foregoing instrument was acknowledged before me, a Florida Notary, this 25 day of September, 20 08, by:
Daniel Zwickel as _____ (type of authority, e.g. officer, trustee, attorney
fact) for _____ (name of party on behalf of whom instrument was executed).

Personally Known _____ OR Produced Identification X Type DL

Notary Signature Lisa Huchingson Notary Stamp or Seal:



11. Verification pursuant to Section 92.525, Florida Statutes. Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Daniel A. Zwickel
Signature of Natural Person Signing (in line #10 above.)

Prepared by:
Judi M. Lowrey
Provident Title & Mortgage, Inc.
206 S. Marion Avenue
Lake City, Florida 32025

File Number: 08-046

General Warranty Deed

Made this May 8, 2008 A.D. By **Michael C. Chandler and Alicia P. Chandler, husband and wife**, 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258, hereinafter called the grantor, to **Daniel A. Zwickel, an unmarried man**, whose post office address is: 4914 US Highway 441 N., Lake City, FL 32055, hereinafter called the grantee:

(Whenever used herein the term "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

Witnesseth, that the grantor, for and in consideration of the sum of Ten Dollars, (\$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:

Lot 9, MEADOWLANDS PHASE I, as per plat thereof recorded in Plat Book 7, Pages 139 and 140, of the Public Records of Columbia County, Florida.

Said property is not the homestead of the Grantor(s) under the laws and constitution of the State of Florida in that neither Grantor(s) or any members of the household of Grantor(s) reside thereon.

Parcel ID Number: 06-6S-17-09617-109

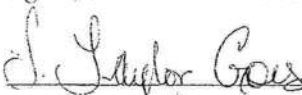
Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; 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, 2007.

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

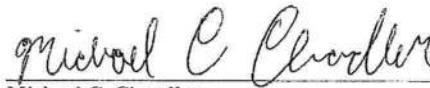
Signed, sealed and delivered in our presence:



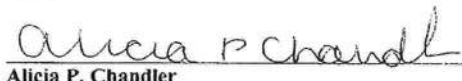
Witness Printed Name J. Taylor Goes

Witness Printed Name Jami E Barrington

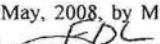
State of Florida
County of Columbia



Michael C. Chandler (Seal)
Address: 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258



Alicia P. Chandler (Seal)
Address: 4914 S. Greenland Hideaway Drive, Jacksonville, FL 32258

The foregoing instrument was acknowledged before me this 8th day of May, 2008, by Michael C. Chandler and Alicia P. Chandler, husband and wife, who is/are personally known to me or who has produced  as identification.

Notary Public
Print Name: Judi M. Lowrey

My Commission Expires: October 2, 2009

A & B Well Drilling, Inc.
5673 NW Lake Jeffery Road
Lake City, FL, 32055
386-758-3409

9/25/2008

To: Columbia County Building Department

Description of well to be installed for Customer: Dan Durickal
Located at Address: 760 S.W. MacDougal Drive

1 hp 20 gpm- 1 1/4" drop over 82 gallon equivalent captive tank with cycle stop and back flow prevention. With SRWM permit.

William Bias
William Bias

Application #:
0809-53

Faxed on 9-25-08

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: 9/2/2008 DATE ISSUED: 9/4/2008

ENHANCED 9-1-1 ADDRESS:

760 SW MEADOWLANDS DR

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

06-6S-17-09617-109

Remarks:

LOT 9 MEADOWLANDS S/D PHS 1

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.

LETTER OF AUTHORIZATION

Date: 9/25/08

Columbia County Building Department
P.O. Drawer 1529
Lake City, FL 32056

I MICHAEL MESSORI, License No. CC-060657 do hereby

Authorize DAN ZWICKET to pull and sign permits on my
behalf.

Sincerely,

Michael Messori

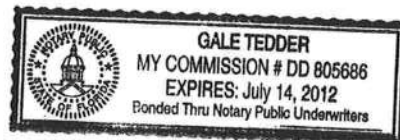
Sworn to and subscribed before me this 25th day of Sept, 2008.

Notary Public: Gale Tedder

My commission expires: _____

Personally Known _____

Produced Valid Identification: DL



**STATE OF FLORIDA**

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

MEDDERS, MICHAEL EDWIN
AMELIA JEWEL INC
1004 EASTPORT RD
JACKSONVILLE FL 32218

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

AC# 3825

CGC060658 06/22/08 0705270

CERTIFIED GENERAL CONTRACTOR
MEDDERS, MICHAEL EDWIN
AMELIA JEWEL INCIS CERTIFIED under the provisions of Ch.489
Expiration date: AUG 31, 2010 L0806220005

DETACH HERE

AC# 3825543

STATE OF FLORIDADEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L0806220005

DATE	BATCH NUMBER	LICENSE NBR
06/22/2008	070527042	CGC060658

The GENERAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2010

MEDDERS, MICHAEL EDWIN
AMELIA JEWEL INC
1004 EASTPORT RD
JACKSONVILLE FL 32218**CHARLIE CRIST**
GOVERNOR**CHUCK DRAGO**
INTERIM SECRETARY

DISPLAY AS REQUIRED BY LAW

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name:	ZWICKEL RES.	Builder:	AMELIA JEWEL
Address:	Lot: 9, Sub: MEADOWLANDS, Plat:	Permitting Office:	LAKE CITY
City, State:	LAKE CITY, FL 32055-	Permit Number:	27390
Owner:	DAN ZWICKEL	Jurisdiction Number:	221000
Climate Zone:	North		

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1520 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump/Split	Cap: 30.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 63.0 ft ²		HSPF: 7.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 63.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 175.5(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=11.0, 959.5 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=11.0, 290.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1520.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 150.0 ft		
b. N/A			

Glass/Floor Area: 0.04

Total as-built points: 19679

Total base points: 22257

PASS

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

PREPARED BY: Keith Murray

DATE: 09-09-2008

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

OWNER/AGENT: M.E. Meddens

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: _____

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: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X SPM X SOF = Points				
.18	1520.0	18.59	5086.0	1.Double, Clear	E	1.0	6.0	24.0	42.06	0.97	978.0
				2.Double, Clear	S	1.0	1.0	9.0	35.87	0.52	168.0
				3.Double, Clear	W	1.0	7.0	30.0	38.52	0.98	1135.0
				As-Built Total:		63.0 2281.0					
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	290.0	0.70	203.0	1. Frame, Wood, Exterior	11.0		959.5	1.70	1631.2		
Exterior	959.5	1.70	1631.2	2. Frame, Wood, Adjacent	11.0		290.0	0.70	203.0		
Base Total:				As-Built Total:		1249.5 1834.2					
DOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Adjacent	17.5	2.40	42.0	1.Exterior Insulated			21.0	4.10	86.1		
Exterior	56.0	6.10	341.6	2.Exterior Insulated			35.0	4.10	143.5		
				3.Adjacent Insulated			17.5	1.60	28.0		
Base Total:				As-Built Total:		73.5 257.6					
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points				
Under Attic	1520.0	1.73	2629.6	1. Under Attic	30.0		1520.0	1.73 X 1.00	2629.6		
Base Total:				As-Built Total:		1520.0 2629.6					
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points				
Slab	175.5(p)	-37.0	-6493.5	1. Slab-On-Grade Edge Insulation	0.0		175.5(p)	-41.20	-7230.6		
Raised	0.0	0.00	0.0								
Base Total:				As-Built Total:		175.5 -7230.6					
INFILTRATION Area X BSPM = Points						Area X SPM = Points					
	1520.0	10.21	15519.2			1520.0 10.21 15519.2					

SUMMER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 18959.1				Summer As-Built Points: 15291.0						
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
18959.1	0.3250	6161.7		(sys 1: Central Unit 30000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Gar(AH),R6.0(INS) 15291	1.00	(1.09 x 1.147 x 1.00)	0.260	1.000	4970.5	
18959.1	0.3250	6161.7		15291.0	1.00	1.250	0.260	1.000	4970.5	

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Ornt Len Hgt		Area X WPM X WOF = Points				
.18	1520.0	20.17	5519.0	1.Double, Clear	E	1.0	6.0	24.0	18.79	1.02	458.0
				2.Double, Clear	S	1.0	1.0	9.0	13.30	2.73	326.0
				3.Double, Clear	W	1.0	7.0	30.0	20.73	1.00	624.0
				As-Built Total:		63.0				1408.0	
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	290.0	3.60	1044.0	1. Frame, Wood, Exterior	11.0		959.5	3.70	3550.2		
Exterior	959.5	3.70	3550.2	2. Frame, Wood, Adjacent	11.0		290.0	3.60	1044.0		
Base Total: 1249.5 4594.2				As-Built Total:		1249.5				4594.2	
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	17.5	11.50	201.3	1.Exterior Insulated				21.0	8.40	176.4	
Exterior	56.0	12.30	688.8	2.Exterior Insulated				35.0	8.40	294.0	
				3.Adjacent Insulated				17.5	8.00	140.0	
Base Total: 73.5 890.1				As-Built Total:		73.5 610.4					
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	1520.0	2.05	3116.0	1. Under Attic	30.0		1520.0	2.05 X 1.00	3116.0		
Base Total: 1520.0 3116.0				As-Built Total:		1520.0 3116.0					
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	175.5(p)	8.9	1561.9	1. Slab-On-Grade Edge Insulation	0.0		175.5(p)	18.80	3299.4		
Raised	0.0	0.00	0.0								
Base Total: 1561.9				As-Built Total:		175.5 3299.4					
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
	1520.0	-0.59	-896.8	1520.0 -0.59 -896.8							

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

BASE			AS-BUILT						
Winter Base Points: 14784.4			Winter As-Built Points: 12131.2						
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (1.069 x 1.169 x 1.00)	X System Multiplier	X Credit Multiplier	= Heating Points	
14784.4	0.5540	8190.5	(sys 1: Electric Heat Pump 30000 btuh ,EFF(7.8) Ducts:Unc(S),Unc(R),Gar(AH),R6.0 12131.2 1.000	1.000	0.437	1.000	1.000	6627.6	
14784.4	0.5540	8190.5	12131.2	1.00	1.250	0.437	1.000	6627.6	

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

PERMIT #:

BASE				AS-BUILT					
WATER HEATING									
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X Tank Ratio	Multiplier X Credit Multiplier	= Total
3		2635.00	7905.0	50.0	0.90	3	1.00	2693.56	8080.7
				As-Built Total:					8080.7

CODE COMPLIANCE STATUS							
BASE				AS-BUILT			
Cooling Points	+	Heating Points	= Total Points	Cooling Points	+	Heating Points	= Total Points
6162		8191	7905	4970		6628	8081
			22257				19679

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

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.	N/A
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 circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	✓
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	N/A
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	✓
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	✓
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	✓
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	✓

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 86.6

The higher the score, the more efficient the home.

DAN ZWICKEL, Lot: 9, Sub: MEADOWLANDS, Plat: , LAKE CITY, FL, 32055-

1. New construction or existing	New	12. Cooling systems	
2. Single family or multi-family	Single family	a. Central Unit	Cap: 30.0 kBtu/hr
3. Number of units, if multi-family	1		SEER: 13.00
4. Number of Bedrooms	3	b. N/A	
5. Is this a worst case?	Yes	c. N/A	
6. Conditioned floor area (ft ²)	1520 ft ²		
7. Glass type ¹ and area: (Label reqd. by 13-104.4.5 if not default)		13. Heating systems	
a. U-factor:	Description Area	a. Electric Heat Pump/Split	Cap: 30.0 kBtu/hr
(or Single or Double DEFAULT)	7a. (Dble Default) 63.0 ft ²		HSPF: 7.80
b. SHGC:		b. N/A	
(or Clear or Tint DEFAULT)	7b. (Clear) 63.0 ft ²	c. N/A	
8. Floor types		14. Hot water systems	
a. Slab-On-Grade Edge Insulation	R=0.0, 175.5(p) ft	a. Electric Resistance	Cap: 50.0 gallons
b. N/A			EF: 0.90
c. N/A		b. N/A	
9. Wall types		c. Conservation credits	
a. Frame, Wood, Exterior	R=11.0, 959.5 ft ²	(HR-Heat recovery, Solar	
b. Frame, Wood, Adjacent	R=11.0, 290.0 ft ²	DHP-Dedicated heat pump)	
c. N/A		15. HVAC credits	
d. N/A		(CF-Ceiling fan, CV-Cross ventilation,	
e. N/A		HF-Whole house fan,	
10. Ceiling types		PT-Programmable Thermostat,	
a. Under Attic	R=30.0, 1520.0 ft ²	MZ-C-Multizone cooling,	
b. N/A		MZ-H-Multizone heating)	
c. N/A			
11. Ducts			
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 150.0 ft		
b. N/A			

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: M. E. McMillen Date: 9-9-08

Address of New Home: 760 SW MEADOWLANDS DR City/FL Zip: LAKE CITY FL 32024



*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 EnergyStarTM 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. EnergyGauge® (Version: FLRCPB v4.5.2)

BUILDING INPUT SUMMARY REPORT

PROJECT	Title: ZWICKEL RES.		Family Type: Single		Address Type: Lot Information	
	Owner: DAN ZWICKEL		New/Existing: New		Lot #: 9	
FLOORS	# of Units: 1		Bedrooms: 3		Subdivision: MEADOWLANDS	
	Builder Name: AMELIA JEWEL		Conditioned Area: 1520		Platbook: (blank)	
CEILINGS	Climate: North		Total Stories: 1		Street: N/A	
	Permit Office: LAKE CITY		Worst Case: Yes		County: COLUMBIA	
WALLS	Jurisdiction #: (blank)		Rotate Angle: 90		City, St, Zip: LAKE CITY, FL, 32055-	
DOORS	# Floor Type		R-Val	Area/Perimeter	Units	
	1 Slab-On-Grade Edge Insulation		0.0	175.5(p) ft	1	
COOLING	# Door Type		Orientation	Area	Units	
	1 Insulated		Exterior	21.0 ft²	1	
HEATING	# System Type		Efficiency	Capacity		
	1 Central Unit		SEER: 13.00	30.0 kBtu/hr		
DUCTS	# System Type		Efficiency	Capacity		
	1 Electric Heat Pump/Split		HSPF: 7.80	30.0 kBtu/hr		
WATER	#	Supply Location	Return Location	Air Handler Location	Supply R-Val	Supply Length
	1	Uncond.	Uncond.	Garage	6.0	150.0 ft
REFR.	#	System Type	EF	Cap.	Conservation Type	Con. EF
	1	Electric Resistance	0.90	50.0	None	0.00
MISC	#	Use Default?	Annual Operating Cost	Electric Rate		
	1	Yes	N/A	N/A		
MISC	Rater Name: CodeOnlyPro		Class #: 3		Pool Size: 0	
	Rater Certification #: CodeOnlyPro		Duct Leakage Type: N/A		Pump Size: 0.00 hp	
MISC	Area Under Fluorescent: 0.0		Visible Duct Disconnects: N/A		Dryer Type: Electric	
	Area Under Incandescent: 1520.0		Leak Free Duct System Proposed: No		Stove Type: Electric	
MISC	NOTE: Not all Rating info shown		HRV/ERV System Present?: No		Avg Ceil Hgt:	

Residential System Sizing Calculation

Summary

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

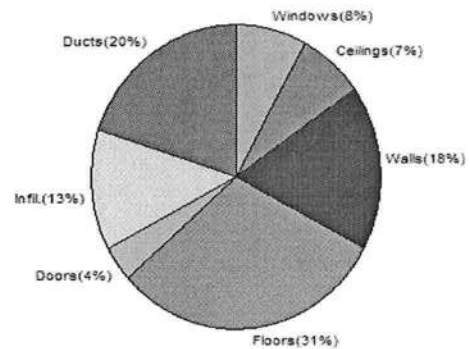
9/9/2008

Location for weather data: Jacksonville - Defaults: Latitude(30) Altitude(26 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(53gr.)			
Winter design temperature	32 F	Summer design temperature	93 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	38 F	Summer temperature difference	18 F
Total heating load calculation	25648 Btuh	Total cooling load calculation	27959 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	117.0 30000	Sensible (SHR = 0.75)	97.8 22500
Heat Pump + Auxiliary(10.0kW)	250.0 64130	Latent	151.6 7500
		Total (Electric Heat Pump)	107.3 30000

WINTER CALCULATIONS

Winter Heating Load (for 1520 sqft)

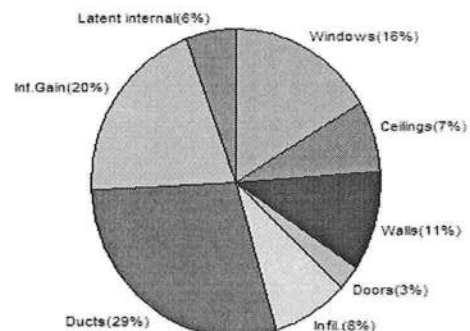
Load component		Load	
Window total	63 sqft	2083	Btuh
Wall total	1250 sqft	4504	Btuh
Door total	74 sqft	978	Btuh
Ceiling total	1520 sqft	1839	Btuh
Floor total	176 sqft	7869	Btuh
Infiltration	77 cfm	3217	Btuh
Duct loss		5158	Btuh
Subtotal		25648	Btuh
Ventilation	0 cfm	0	Btuh
TOTAL HEAT LOSS		25648	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 1520 sqft)

Load component		Load	
Window total	63 sqft	4598	Btuh
Wall total	1250 sqft	2962	Btuh
Door total	74 sqft	746	Btuh
Ceiling total	1520 sqft	2082	Btuh
Floor total		0	Btuh
Infiltration	41 cfm	802	Btuh
Internal gain		5650	Btuh
Duct gain		6173	Btuh
Sens. Ventilation	0 cfm	0	Btuh
Total sensible gain		23012	Btuh
Latent gain(ducts)		1887	Btuh
Latent gain(infiltration)		1460	Btuh
Latent gain(ventilation)		0	Btuh
Latent gain(internal/occupants/other)		1600	Btuh
Total latent gain		4946	Btuh
TOTAL HEAT GAIN		27959	Btuh



Version 8
For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *Keith Murray*

DATE: *09-09-2008*

EnergyGauge® FLRCPB v4.5.2

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Winter Temperature Difference: 38.0 F
This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0		33.1	793 Btuh
2	2, Clear, Metal, 0.87	N	9.0		33.1	298 Btuh
3	2, Clear, Metal, 0.87	E	30.0		33.1	992 Btuh
	Window Total		63(sqft)			2083 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	960		3.6	3459 Btuh
2	Frame - Wood - Adj(0.09)	11.0	290		3.6	1045 Btuh
	Wall Total		1250			4504 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		21		13.3	279 Btuh
2	Insulated - Exterior		35		13.3	466 Btuh
3	Insulated - Adjacent		18		13.3	233 Btuh
	Door Total		74			978Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1520		1.2	1839 Btuh
	Ceiling Total		1520			1839Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	175.5 ft(p)		44.8	7869 Btuh
	Floor Total		176			7869 Btuh
	Envelope Subtotal:					17274 Btuh
Infiltration	Type	ACH X Volume(cuft)	walls(sqft)	CFM=		
	Natural	0.38	12160	1250	77.0	3217 Btuh
Ductload	(DLM of 0.252)					5158 Btuh
All Zones	Sensible Subtotal All Zones					25648 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25648 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25648 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL

LAKE CITY, FL 32055-

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

9/9/2008

EQUIPMENT

1. Electric Heat Pump/Split	ICP #WCH3302(Outside)ICP #WAHM302(Inst)	30000 Btuh
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Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)
Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Winter Temperature Difference: 38.0 F
This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0		33.1	793 Btuh
2	2, Clear, Metal, 0.87	N	9.0		33.1	298 Btuh
3	2, Clear, Metal, 0.87	E	30.0		33.1	992 Btuh
	Window Total		63(sqft)			2083 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	11.0	960		3.6	3459 Btuh
2	Frame - Wood - Adj(0.09)	11.0	290		3.6	1045 Btuh
	Wall Total		1250			4504 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		21		13.3	279 Btuh
2	Insulated - Exterior		35		13.3	466 Btuh
3	Insulated - Adjacent		18		13.3	233 Btuh
	Door Total		74			978Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/L/Shin	30.0	1520		1.2	1839 Btuh
	Ceiling Total		1520			1839Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	175.5 ft(p)		44.8	7869 Btuh
	Floor Total		176			7869 Btuh
	Zone Envelope Subtotal:					17274 Btuh
Infiltration	Type	ACH	X	Volume(cuft)	walls(sqft)	CFM=
	Natural	0.38		12160	1250	77.0
						3217 Btuh
Ductload	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic) (DLM of 0.252)					5158 Btuh
Zone #1	Sensible Zone Subtotal					25648 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	25648 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	25648 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

9/9/2008

EQUIPMENT

1. Electric Heat Pump/Split	ICP #WCH3302(Outside)ICP #WAHM302(Inst)	30000 Btuh
-----------------------------	---	------------

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Summer Temperature Difference: 18.0 F
This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1ft.	6ft.	24.0	0.0	24.0	30	80	1925	Btuh
2	2, Clear, 0.87, None,N,N	N	1ft.	1ft.	9.0	0.0	9.0	30	30	267	Btuh
3	2, Clear, 0.87, None,N,N	E	1ft.	7ft.	30.0	0.0	30.0	30	80	2406	Btuh
Window Total					63 (sqft)					4598 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	11.0/0.09			959.5			2.6		2467 Btuh	
2	Frame - Wood - Adj	11.0/0.09			290.0			1.7		495 Btuh	
Wall Total					1250 (sqft)					2962 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				21.0			10.1		213 Btuh	
2	Insulated - Exterior				35.0			10.1		355 Btuh	
3	Insulated - Adjacent				17.5			10.1		178 Btuh	
Door Total					74 (sqft)					746 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/Light/Shingle	30.0			1520.0			1.4		2082 Btuh	
Ceiling Total					1520 (sqft)					2082 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			176 (ft(p))			0.0		0 Btuh	
Floor Total					175.5 (sqft)					0 Btuh	
	Envelope Subtotal:									10388 Btuh	
Infiltration	Type	ACH			Volume(cuft) wall area(sqft)			CFM=		Load	
	SensibleNatural	0.20			12160 1250			77.0		802 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	5			X 230 +			4500		5650 Btuh		
	Sensible Envelope Load:									16840 Btuh	
Duct load	(DGM of 0.367)									6173 Btuh	
	Sensible Load All Zones									23012 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL
LAKE CITY, FL 32055-

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

9/9/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16840 Btuh
	Sensible Duct Load	6173 Btuh
	Total Sensible Zone Loads	23012 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	23012 Btuh
	Latent infiltration gain (for 53 gr. humidity difference)	1460 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1887 Btuh
	Latent occupant gain (5 people @ 200 Btuh per person)	1000 Btuh
	Latent other gain	600 Btuh
	Latent total gain	4946 Btuh
	TOTAL GAIN	27959 Btuh

EQUIPMENT

1. Central Unit	ICP #WCH3302	30000 Btuh
-----------------	--------------	------------

*Key: Window types (Pn - Number of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
 (U - Window U-Factor or 'DEF' for default)
 (InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
 (ExSh - Exterior shading device: none(N) or numerical value)
 (BS - Insect screen: none(N), Full(F) or Half(H))
 (Ornt - compass orientation)



Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

DAN ZWICKEL

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

LAKE CITY, FL 32055-

Reference City: Jacksonville (Defaults) Summer Temperature Difference: 18.0 F
This calculation is for Worst Case. The house has been rotated 270 degrees.

9/9/2008

Component Loads for Zone #1: Main

Window	Type*	Ornt	Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS		Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	W	1ft.	6ft.	24.0	0.0	24.0	30	80	1925	Btuh
2	2, Clear, 0.87, None,N,N	N	1ft.	1ft.	9.0	0.0	9.0	30	30	267	Btuh
3	2, Clear, 0.87, None,N,N	E	1ft.	7ft.	30.0	0.0	30.0	30	80	2406	Btuh
Window Total					63 (sqft)					4598 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	11.0/0.09			959.5			2.6		2467 Btuh	
2	Frame - Wood - Adj	11.0/0.09			290.0			1.7		495 Btuh	
Wall Total						1250 (sqft)					2962 Btuh
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				21.0			10.1		213 Btuh	
2	Insulated - Exterior				35.0			10.1		355 Btuh	
3	Insulated - Adjacent				17.5			10.1		178 Btuh	
Door Total						74 (sqft)					746 Btuh
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/Light/Shingle	30.0			1520.0			1.4		2082 Btuh	
Ceiling Total						1520 (sqft)					2082 Btuh
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			176 (ft(p))			0.0		0 Btuh	
Floor Total						175.5 (sqft)					0 Btuh
Zone Envelope Subtotal:										10388 Btuh	
Infiltration	Type	ACH			Volume(cuft)			wall area(sqft)		CFM=	
	SensibleNatural	0.20			12160			1250		40.5	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	5			X 230			+		4500		
Sensible Envelope Load:										16840 Btuh	
Duct load	Average sealed, Supply(R6.0-Attic), Return(R6.0-Attic)							(DGM of 0.367)		6173 Btuh	
Sensible Zone Load										23012 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

DAN ZWICKEL
LAKE CITY, FL 32055-

Project Title:
ZWICKEL RES.

Code Only
Professional Version
Climate: North

9/9/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	16840 Btuh
	Sensible Duct Load	6173 Btuh
	Total Sensible Zone Loads	23012 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	23012 Btuh
	Latent infiltration gain (for 53 gr. humidity difference)	1460 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	1887 Btuh
	Latent occupant gain (5 people @ 200 Btuh per person)	1000 Btuh
	Latent other gain	600 Btuh
	Latent total gain	4946 Btuh
	TOTAL GAIN	27959 Btuh

EQUIPMENT

1. Central Unit	ICP #WCH3302	30000 Btuh
-----------------	--------------	------------

*Key: Window types (Pn - Number of panes of glass)
 (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
 (U - Window U-Factor or 'DEF' for default)
 (InSh - Interior shading device: none(N), Blinds(B), Draperies(D) or Roller Shades(R))
 (ExSh - Exterior shading device: none(N) or numerical value)
 (BS - Insect screen: none(N), Full(F) or Half(H))
 (Ornt - compass orientation)



Version 8
For Florida residences only

Residential Window Diversity

MidSummer

DAN ZWICKEL

LAKE CITY, FL 32055-

Project Title:
ZWICKEL RES.

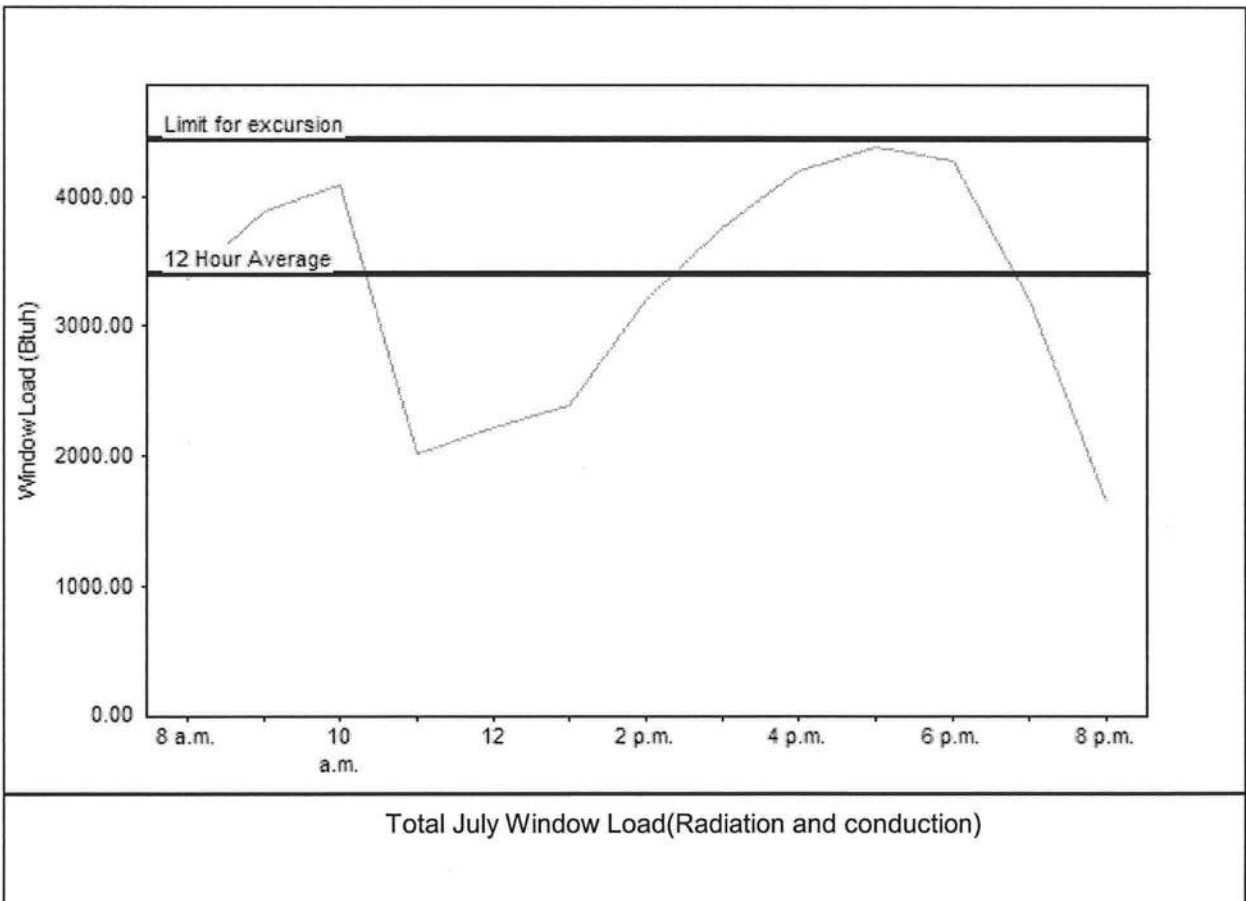
Code Only
Professional Version
Climate: North

9/9/2008

Weather data for: Jacksonville - Defaults

Summer design temperature	93 F	Average window load for July	3414 Btuh
Summer setpoint	75 F	Peak window load for July	4375 Btuh
Summer temperature difference	18 F	Excursion limit(130% of Ave.)	4438 Btuh
Latitude	30 North	Window excursion (July)	None

WINDOW Average and Peak Loads



The midsummer window load for this house does not exceed the window load excursion limit.
This house has adequate midsummer window diversity.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *K. H. Murray*

DATE: *09-29-08*



EnergyGauge® FLRCPB v4.5.2

27390

David M. Winsberg, P.E.

PO Box 2815, Lake City, FL 32056 - Phone 386-752-1895 - Email davidwinsberg@bellsouth.net

Finish Floor Elevation Requirement\Exemption

Client: Will Myers
Contractor: Michael Medders
Description: Zwickel Residence for Building Permit #27390
Parcel ID#: 06-6S-17-09617-109

Foundation Requirements:

For protection against water damage during the 100 year storm event, 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 roadway.

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

Please note that this certification letter also serves as a request for exemption from the elevation requirements for areas where no base flood data has been provided. This is because the above elevations are based on an engineering analysis of flood hazards at the structure's current location, approximately +/-80 feet South from the adjacent graded road.



David M. Winsberg

P.E. License Number: 68463

October 16, 2008



27390

WILLIAM N. KITCHEN

PROFESSIONAL SURVEYOR AND MAPPER

152 N. MARION AVENUE

LAKE CITY, FLORIDA 32055

PHONE (386) 755-7786 FAX (386) 755-5506

E-MAIL BSSK@BELLSOUTH.NET



DATE : 10/16/2008

TO WHOM IT MAY CONCERN:

RE: DAN ZWICKEL

SUBJECT **Parcel:** 06-6S-17-09617-109 , LOT 9 , MEADOWLANDS,
NO. 760 SW MEADOWLAND DRIVE, LAKE CITY, FL. 32024

IS NOT IN A FLOOD ZONE ACCORDING TO FEMA FLOOD INSURANCE RATE
MAP NO. 120070 0225 B DATED JANUARY 6, 1988.

THE TOP OF FORMS ARE 7 INCHES BELOW THE CENTERLINE OF ADJACENT
PLATTED PAVED ROAD.

THE TOP OF FORMS ARE 12 INCHES ABOVE THE EXSITING GROUND AT ANY
POINT.

REFERENCE; RESIDENTAIL FINISH FLOOR ELEVATION LETTER PER
DAVID M. WINSBERG, P.E., DATED OCTOBER 16, 2008,

THANK YOU

WILLIAM N. KITCHEN PSM # 5490

William N. Kitchen
10-16-2008

David M. Winsberg, P.E.

PO Box 2815, Lake City, FL 32056 - Phone 386-752-1895 - Email davidwinsberg@bellsouth.net

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Please note that this certification letter also serves as a request for exemption from the elevation requirements for areas where no base flood data has been provided. This is because the above elevations are based on an engineering analysis of flood hazards at the structure's current location, approximately +/-80 feet South from the adjacent graded road.



David M. Winsberg
P.E. License Number: 68463
October 16, 2008

David Winsberg
Oct 15, 2008



CAL-TECH TESTING, INC.

ENGINEERING & TESTING LABORATORY

P.O. Box 1625, Lake City, FL 32056-1625
4784 Rosselle St. • Jacksonville, FL 32254
2230 Greensboro Hwy., Quincy, FL 32351

Lake City • (386) 755-363

Fax • (386) 752-545

Jacksonville • (904) 381-890

Fax • (904) 381-890

Quincy • (850) 442-349

Fax • (850) 442-400

JOB NO.: 08-523

DATE TESTED:

10-16-08

REPORT OF IN-PLACE DENSITY TEST

ASTM METHOD: ☒ (D-2922) Nuclear ☐ (D-2937) Drive Cylinder ☐ Other

PROJECT: Daniel Zurickel Residence Permit # 0000 27390

CLIENT: Daniel Zurickel

GENERAL CONTRACTOR: N/A EARTHWORK CONTRACTOR: Bubba's Site Prep

SOIL USE (SEE NOTE): 1 - Subembankment SPECIFICATION REQUIREMENTS: 95%

TECHNICIAN: C. Day

MODIFIED (ASTM D-1557): ☒ STANDARD (ASTM D-698): ☐

TEST NO.	TEST LOCATION	TEST:	PROCTOR NO.	WET DENS. LBS./CU.FT.	DRY DENS. LBS./CU.FT.	MOIST PERCENT	% MAX. DENS.
		DEPTH ELEV. LIFT					
1	Weathered appox. center 15' S. from porch form boards.	12"	*	108.6	102.7	5.8	96
2	S.E. Corner 10' W x 8' N.	12"	*	110.0	104.6	5.2	98
3	S.W. Corner 15' E x 6' N.	12"	*	106.8	102.6	4.1	96

REMARKS:

PROCTOR NO.	SOIL DESCRIPTION	PROCTOR VALUE	OPT. MOIST.
*	Drainage Site Prep - Suwannee Valley Pit	106.5	

NOTE: 1. Building Fill 2. Trench Backfill 3. Base Course 4. Subbase/Stabilized Subgrade 5. Embankment 6. Subgrade/Natural Soil 7. Other
The test results presented in this report are specific only to the samples tested at the time of testing. The tests were performed in accordance with generally accepted methods and standards. Since material conditions can vary between test location and change with time, sound judgement should be exercised with regard to the use and interpretation of the data.

**COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006
Supplements and One (1) and Two (2) Family Dwellings**

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE- AND-TWO FAMILY DWELLINGS.

FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ----- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -----110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

GENERAL REQUIREMENTS:

- ☒ Two (2) complete sets of plans containing the following:
- ☒ All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- ☒ Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- ☒ Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- ☒ Dimensions of lot or parcel of land
- ☒ Dimensions of all building set backs
- ☒ Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- ☒ Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- ☒ Plans or specifications must meet state compliance with FRC Chapter 3
- ☒ The following information must be shown as per section FRC
- ☒ Basic wind speed (3-second gust), miles per hour
- ☒ Wind importance factor and nature of occupancy
- ☒ Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- ☒ The applicable internal pressure coefficient, Components and Cladding The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifiably designed by the registered design professional.

Elevations Drawing including:

- ☒ All side views of the structure
- ☒ Roof pitch
- ☒ Overhang dimensions and detail with attic ventilation
- ☒ Location, size and height above roof of chimneys
- ☒ Location and size of skylights with Florida Product Approval
- ☒ Number of stories
- ☒ e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors)
- Emergency escape and rescue opening in each bedroom (net clear opening shown)
- Safety glazing of glass where needed
- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing value of soil 2500 (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- Show all materials making up walls, wall height, and Block size, mortar type
 - Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement
- Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect**

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or piers
- Girder type, size and spacing to load bearing walls, stem wall and/or piers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud-type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assemblies covering; with Florida Product Approval numbers for each component of the roof assemblies covering.

FCB-Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms
- Notarized Disclosure Statement for Owner Builders
- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

- Size of pump motor
- Size of pressure tank
- Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.
- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.
- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)
- City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321
- Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. **CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED.** A development permit will also be required. The permit cost is \$50.00.
- Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit (\$25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver (\$50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.
- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridapba.com

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging			
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung			
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding			
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor			
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

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) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection

Contractor or Contractor's Authorized Agent Signature

Print Name

Date

Location

Permit # (FOR STAFF USE ONLY)

PRODUCT APPROVAL SPECIFICATION SHEET

Location: 760 SW MEMPHIS DR

Project Name: _____

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are **applying for a building permit on or after April 1, 2004**. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

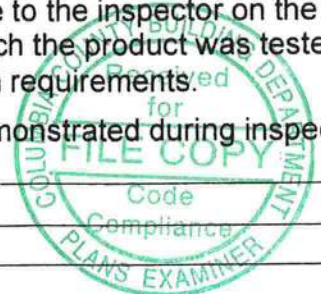
Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	MI PRODUCTS	EXTENSION SWINGING	7628.1
2. Sliding	MI PRODUCTS	SLIDER	8767.1
3. Sectional	CLOPAY GARAGE	GARAGE DOOR	3026.15
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	KINCO	ALUMIN. FIN WINDOW S/H	123.2
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed			
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion			
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding	KAYCAN LTD	VINYL SIDING	4965.2
2. Soffits	KAYCAN LTD	SOFFITS	4899.6
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane			
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles	PERTAINTECH	SHINGLES	5444.1
2. Underlayments			
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			



Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives – Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	SIMPSON	H2.5 / H16S	503.5
2. Truss plates			
3. Engineered lumber			
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof			
11. Wall			
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

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) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection



Michael Medders

Contractor or Contractor's Authorized Agent Signature

760 SW MEADOWLANDS DR.

Location LAKE CITY FL 32024

02/02/04 – 2 of 2

Website: www.flpermits.com

MICHAEL MEDDERS

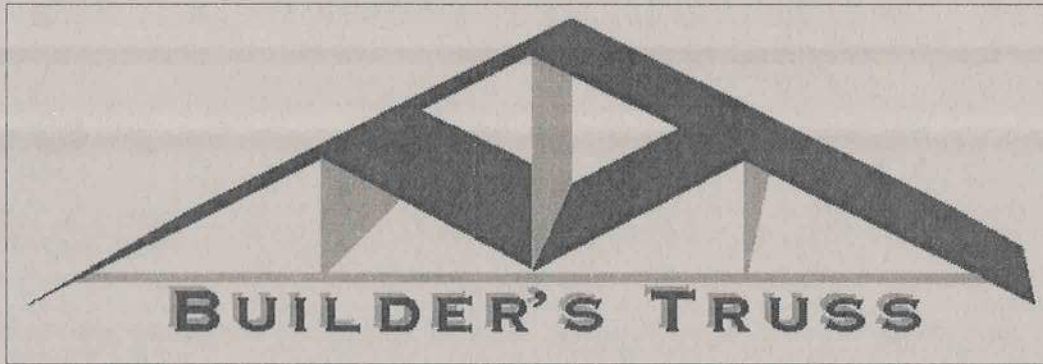
Print Name

9-12-08

Date

Permit # (FOR STAFF USE ONLY)

Effective April 1, 2004



Builders Truss Manufacturing

1506 Bedell Avenue, Woodbine, Ga

(800) 443-9652 (F) 912-729-2284

Job No. 11783

Company: Amelia Jewel Custom Home

Job Name: Lot 9 Meadowlands S. D. P

Phone Number: (904) 696-9708

TRUSS ENGINEERING PACKET

SEALED ENGINEERING



RE: 11783 - Amelia Jewel; L9 Meadowlands

MiTek Industries, Inc.

14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017-5746

Site Information:

Project Customer: Amelia Jewel Inc Project Name: L9 Meadowlands
Lot/Block: 9 Subdivision: Meadowlands PI
Address:
City: Columbia County State: FL

Name Address and License # of Structural Engineer of Record, if there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2004/TPI2002 Design Program: MiTek 20/20 6.5
Wind Code: ASCE 7-02 Wind Speed: 120 mph Floor Load: N/A psf
Roof Load: 50.0 psf

This package includes 22 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.
This document processed per section 16G15-23.003 of the Florida Board of Professionals Rules

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I14424959	A01	8/26/08	18	I14424976	J01	8/26/08
2	I14424960	A02	8/26/08	19	I14424977	J03	8/26/08
3	I14424961	A02A	8/26/08	20	I14424978	J05	8/26/08
4	I14424962	A03	8/26/08	21	I14424979	J07	8/26/08
5	I14424963	A03A	8/26/08	22	I14424980	JC09	8/26/08
6	I14424964	A04	8/26/08				
7	I14424965	A04A	8/26/08				
8	I14424966	A05	8/26/08				
9	I14424967	A05A	8/26/08				
10	I14424968	A06	8/26/08				
11	I14424969	A06A	8/26/08				
12	I14424970	A07	8/26/08				
13	I14424971	A07A	8/26/08				
14	I14424972	B01	8/26/08				
15	I14424973	B01A	8/26/08				
16	I14424974	C01	8/26/08				
17	I14424975	C01A	8/26/08				



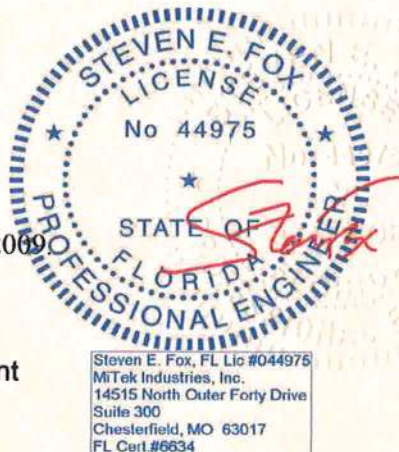
REVIEWED BY
FRANK HOLAS & ASSOC.
☒ APPROVED
☒ APPROVED AS NOTED
☐ REJECTED - RESUBMIT
DATED _____

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Builders Truss Manufacturing.

Truss Design Engineer's Name: Fox, Steve

My license renewal date for the state of Florida is FEBRUARY 28, 2009

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.



Steven E. Fox, FL Lic #044975
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017
FL Cert #6634

August 26, 2008

INSTALLATION GUIDE FOR PLATED TRUSS CONNECTORS

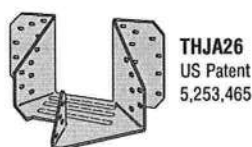
SIMPSON
Strong-Tie

MULTIPLE TRUSS HANGERS

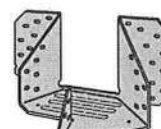
THJA26/LTHJA26

Model No.	Fasteners (Quantity & Size)		
	Carrying Member	Carried Member	
		Hip ¹	Jack
THJA26	(20)-.162x3½	(6)-.148x1½	(4)-.148x1½
LTHJA26	(20)-.148x3	(7)-.148x1½	(4)-.148x1½

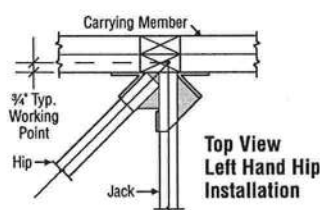
1. For the LTHJA26, one .148x1½ nail must be installed into the bottom of each hip through bottom of hanger seat.



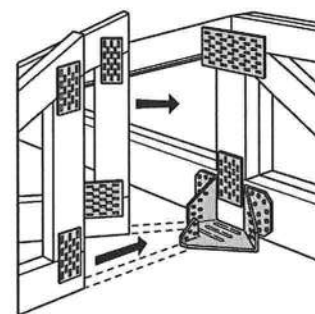
THJA26
US Patent
5,253,465



LTHJA26
US Patent
5,253,465



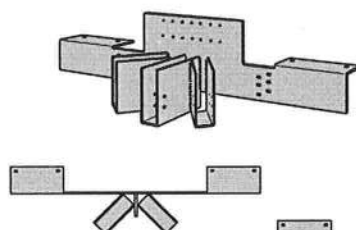
Top View
Left Hand Hip
Installation



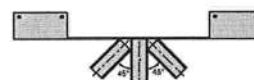
Typical THJA26 Installation
(LTHJA26 Similar)

MSCPT

Model No.	Fasteners (Quantity & Size)	
	Carrying Member	Carried Member
MSCPT2	(26)-.162x3½	(18)-.148x1½
MSCPT2N	(26)-.162x3½	(14)-.148x1½
MSCPT2-2	(30)-.162x3½	(20)-.148x3
MSCPT2-2N	(30)-.162x3½	(14)-.148x3

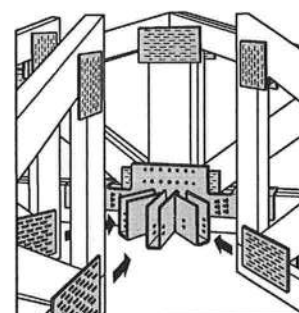


MSCPT2N Top View
(MSCPT2-2N similar)



MSCPT2 Top View
(MSCPT2-2 similar)

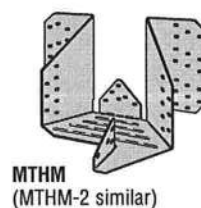
MSCPT2
(MSCPT2-2
similar)



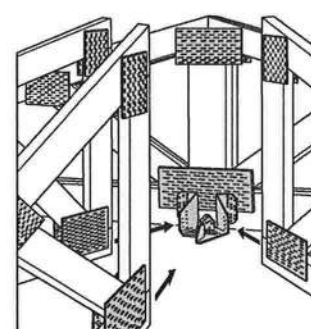
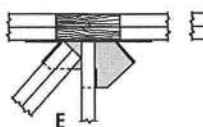
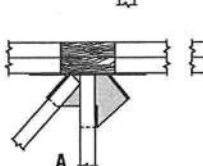
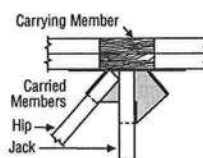
Typical MSCPT2 Installation

MTHM/MTHM-2

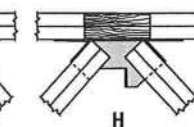
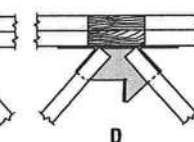
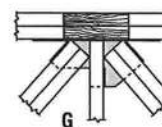
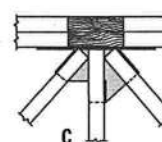
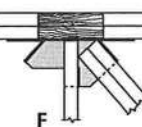
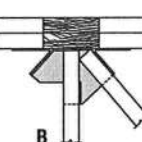
Detail	Model No.	2-Ply Bottom Chord	Fasteners (Quantity & Size)		
			Carrying Member	Carried Member	
				R/L Hip	Jack
A - B	MTHM	2x4	(22)-.162x3½	(8)-.148x1½	(4)-.148x1½
		2x6	(34)-.162x3½	(8)-.148x1½	(4)-.148x1½
		2x8	(42)-.162x3½	(8)-.148x1½	(4)-.148x1½
C	MTHM	2x4	(22)-.162x3½	(16)-.148x1½	(4)-.148x1½
		2x6	(34)-.162x3½	(16)-.148x1½	(4)-.148x1½
		2x8	(42)-.162x3½	(16)-.148x1½	(4)-.148x1½
D	MTHM	2x4	(22)-.162x3½	(16)-.148x1½	—
		2x6	(34)-.162x3½	(16)-.148x1½	—
		2x8	(42)-.162x3½	(16)-.148x1½	—
E - F	MTHM-2	2x4	(39)-.162x3½	(8)-.148x1½	(4)-.148x1½
		2x6	(47)-.162x3½	(8)-.148x1½	(4)-.148x1½
G	MTHM-2	2x8	(39)-.162x3½	(16)-.148x1½	(4)-.148x1½
		2x4	(47)-.162x3½	(16)-.148x1½	(4)-.148x1½
H	MTHM-2	2x6	(39)-.162x3½	(16)-.148x1½	—
		2x8	(47)-.162x3½	(16)-.148x1½	—



MTHM
(MTHM-2 similar)



Typical MTHM Installation



GENERAL OFFICE

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 06-6S-17-09617-104

Building permit No. 000027390

Use Classification SFD/UTILITY

Fire: 38.52

Permit Holder MICHAEL MEDDERS

Waste: 100.50

Owner of Building DANIEL ZWICKEL

Total: 139.02

Location: 760 SW MEADOWLANDS DR., LAKE CITY, FL

Date: 04/13/2009

Wayne H. Russ

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

